



REVIEWED

By Mike Buchanan at 8:52 am, Jan 25, 2024

GAS MITIGATION MONTHLY REPORT - MARCH 2023

Property:

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

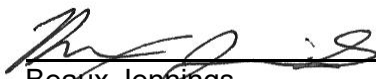
**New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981
Incident ID No. nAPP2227033082**

June 20, 2023

Prepared for:

**Occidental Permian LTD
1600 Gehrig Dr.
Midland, Texas 79706
Attn: Ms. Melissa Gilliland**

Prepared by:


Beaux Jennings
Senior Project Manager


Elizabeth Scaggs, PG
Principal

Review of the March 2023 Gas Mitigation Monthly Report:
Content Satisfactory
1. Ensure that the circular chart is properly recording for Pressure Readings
2. Continue removal of gas accumulations bi-weekly as proposed.
3. Continue to conduct sampling for monitoring wells: MW-1, MW-2 and Levey well for groundwater and air.
4. Submit monthly reports as scheduled and annually as scheduled.



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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
Incident ID No. nAPP2227033082

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) Incident ID No. nAPP2227033082 Order No. R-4934-F Case No. 14981

This Gas Mitigation Monthly Report - March 2023 summarizes activities subsequent to the *Gas Mitigation Monthly Report - November 2021*, dated December 14, 2021, the *Gas Mitigation Monthly Report - December 2021*, dated January 20, 2022, the *Gas Mitigation Monthly Report - January 2022*, dated March 1, 2022, the *Gas Mitigation Monthly Report - February 2022*, dated March 24, 2022, the *Gas Mitigation Monthly Report - March 2022*, dated May 4, 2022, the *Gas Mitigation Monthly Report - April 2022*, dated July 11, 2022, the *Gas Mitigation Monthly Report - May 2022*, dated July 22, 2022 and the *Gas Mitigation Monthly Report - June 2022*, dated July 22, 2022, the *Gas Mitigation Monthly Report - July 2022*, dated September 1, 2022, the *Gas Mitigation Monthly Report - August 2022*, dated December 6, 2022, the *Gas Mitigation Monthly Report - September 2022*, dated December 6, 2022, the *Gas Mitigation Monthly Report - October 2022*, dated January 20, 2022, the *Gas Mitigation Monthly Report - December 2022*, dated March 9, 2023, the *Gas Mitigation Monthly Report - January 2023*, dated March 9, 2023, and the *Gas Mitigation Monthly Report – February 2023*, dated June 20, 2023 . All wells are located within operations that are part of the South Hobbs Grayburg/San Andres Unit (SHU) Field in the southwestern area of the City of Hobbs, Lea County, New Mexico. Collectively, the Levey water well (Levey Well) and the two monitoring wells (MW-1 and MW-2) are referred to as the “Site”.

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

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On June 30, 2019, elevated pressure was observed at the Levey Well. At the request of the New Mexico Oil Conservation Division (NMOCD), localized area wells were “shut in” from operational use. Over time, the pressure being observed at the Levey Well declined until pressure was no longer recorded. Observations and water analysis of the Levey water well did identify free gas in the well bore; however, pressure from the underlying groundwater-bearing zone was no longer present. Operational data was analyzed as part of the area wide assessment and adjacent wells investigated as potential sources for the gas infiltration. During maintenance operations at SHU #183, located approximately 575 feet southwest of the Levey Well, the SHU #183 well string was pulled, and pressures measured for proof of casing integrity. During these operations, SHU #183 was found to have a casing leak, which is believed to be the source of the pressure observed at Levey well. In response, OXY plugged the SHU #183 well to the surface. No other anomalies were observed in the adjacent area oil and gas wells. After SHU #183 was plugged, OXY drilled a nearby replacement well. This replacement well, designated as SHU #297, is currently operational and shows no concerns of free gas migration.

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

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

OXY's groundwater monitoring program included the collection of a groundwater sample from each monitoring well (MW-1 and MW- 2). The monitoring wells were gauged and sampled on May 26, June 30, August 20, October 23, November 24, December 18, 2020, and weekly thereafter. The Levey Well has been sampled consistently from December 6, 2019, to March 29, 2023. The groundwater samples collected from the monitoring wells (MW-1 and MW-2) were analyzed for total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) utilizing Environmental Protection Agency (EPA) Method 8015M, volatile organic compounds (VOCs) utilizing EPA Method SW-846 #8260 (full list), carbon dioxide utilizing Standard Method 4500 CO₂ C, dissolved sulfide utilizing EPA Method SW-846 #376.2, chloride using EPA Method SW-846 #300.0 and pH utilizing EPA Method SW-846 #150.1. The groundwater samples collected from the Levey Well were analyzed for VOCs, recoverable metals per ICP by EPA 200.7, inorganic anions by EPA 300/300.1, pH by SM4500-H, total dissolved solids (TDS) by SM2540C, alkalinity by SM2320B and cation-anion balance by SM1030E.

During the March 2023 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, chloride, and TDS. Benzene concentrations ranged from 0.0129 milligrams per liter (mg/L) to 0.0159 mg/L in monitoring well MW-2. A chloride exceedance of 327 mg/L was also observed in the Levey Well. TDS concentrations ranged from 1,030 mg/L to 1,500 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**.

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

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

OXY installed pressure reading charts at the Levey Well to measure the potential for any returning pressure at the well. These charts measure pressure 24 hours a day and show that no pressure has returned to the Levey Well. Monitoring wells MW-1 and MW-2 were physically monitored for the presence of gas and pressure on several dates from 7/1/2020 to 3/29/2023, with no pressure observed in either monitoring well. The pressure reading chart available for March 2023 is included in **Appendix D**.

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

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

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

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

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

1.2 Groundwater Recovery – Levey Well

As of July 1, 2021, the Levey Well has run full time and recovered groundwater is transferred via flowline to a nearby tank for proper disposal. The groundwater recovered from the Levey Well during March 1 - 29, 2023 was approximately 556,102 gallons.

1.3 Gas Recovery – Levey Well

OXY conducted two vacuum recovery events during the month of March 2023 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 April 2023 once every two weeks until the sampling results of the air are minimal after displacement of the overlying pressure, or the process proves to become ineffective.

2.0 AIR AND GROUNDWATER MONITORING

2.1 Air Sampling Program

Levey Well

The air samples from March 6 and 20, 2023, were taken prior to, during, and subsequent to the vacuum recovery event utilizing Summa[®] canisters. Upon arrival at the Site, the Levey Well is turned off and allowed to stabilize for approximately one hour. An air sample is taken after one hour of the Levey Well stabilization, prior to initiating the vacuum recovery event.

During the March 6 and 20, 2023 vacuum recovery events, the vacuum was applied to the Levey Well for a duration of approximately two hours. Approximately one hour and two hours into the event, an air sample was taken. The vacuum was then turned off and an additional air sample from the Levey Well was taken one hour subsequent to the vacuum recovery event. Water was not recovered during the vacuum recovery event.

The Summa[®] canisters were shipped under proper chain-of-custody to Pace Analytical Laboratory in Mount Juliet, TN for analysis of volatile organic compounds (VOCs) by Method TO-15. Laboratory analytical results are summarized in **Table 4** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets from the March 2023 sampling events are provided in **Appendix C**.

2.2 Groundwater Sampling Program

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

Levey Well

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

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

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

Monitoring Wells MW-1 and MW-2

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

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

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

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

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

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

3.0 DATA EVALUTATION

3.1 Air Samples

Gas mitigation activities at the Levey Well began on November 8, 2021, and will continue on a bi-weekly basis through April 2023. Based on the concentrations observed in the Levey Well air samples, the vacuum recovery events are drawing the free gas over to the Levey Well. Prior to each vacuum recovery event, an air sample is taken to give a representative snapshot of static conditions of gas in the subsurface. Elevated concentrations of acetone, benzene, cyclohexane, ethanol, ethylbenzene, 4-ethyltoluene, heptane, n-hexane, isopropylbenzene, 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene, and/or TPH were observed prior to the initiation of each vacuum recovery event.

Once initiated, an air sample is taken at one hour and two hours into the vacuum recovery event. During each of the vacuum recovery events, acetone, benzene, cyclohexane, ethanol, ethylbenzene, 4-ethyltoluene, heptane, n-hexane, isopropylbenzene, 2-propanol, 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, with the exception of ethylbenzene, 4-ethyltoluene, heptane, isopropylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, o-xylene, and TPH during the March 6, 2023 sampling event and ethanol during the March 20, 2023 sampling event.

Approximately one hour after the termination of the vacuum recovery event, a final air sample is collected. Elevated concentrations of acetone, cyclohexane, ethanol, ethylbenzene, 4-ethyltoluene, heptane, n-hexane, isopropylbenzene, 2-propanol, toluene, 1,2,4-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 week subsequent to the vacuum recovery event. During each of the bi-weekly air sampling events, elevated concentrations of carbon disulfide, cyclohexane, ethanol, ethylbenzene, 4-ethylbenzene, n-hexane, 2-propanol, 1,2,4-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 March 2023 groundwater samples collected from the Levey Well and monitoring wells MW-1 and MW-2 to the New Mexico WQCC GQs. 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 GQs, with the exception of the analytes, as discussed below.

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Levey Well

The groundwater sample collected from the Levey Well on March 3, 2023, exhibited a chloride exceedance of 327 mg/L, which is above the WQCC GQS of 250.0 mg/L.

TDS concentrations of 1,030 mg/L to 1,500 mg/L were observed during the March 2023 sampling. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). Specifically, for the 20 water supply wells sampled by the USGS in Southern Lea County with TDS analyses, the median TDS concentration was 722 mg/L, and the 75th percentile TDS concentration was 1,953 mg/L.

The Levey Well sampling first began on December 6, 2019. Through mitigation activities, including groundwater recovery and vacuum recovery events, the benzene concentration in the Levey Well has significantly decreased over time, with the exception of December 29, 2021, which had a benzene analytical result of 0.00611 mg/L, the January 19, 2022, which had a benzene analytical result of 0.00684 mg/L, the March 9, 2022, which had a benzene analytical result of 0.00552 mg/L, and the January 25, 2023, which had a benzene analytical result of 0.00589 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 0.0129 mg/L to 0.0159 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

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

4.0 RECOMMENDATIONS

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

Based on verbal communication between OXY and NMOCD, OXY concurs with the following recommendations and/or requests from the NMOCD moving forward in 2023:

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

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- **Continue to monitor the Levey Well and monitoring wells MW-1 and MW-2 utilizing daily pressure checks for significant changes in pressure, which could indicate a secondary source, until compliance of free gas removal is achieved; and**
- **Implement monthly sampling for water and air on the Levey Well and monitoring wells MW-1 and MW-2 moving forward in 2023.**

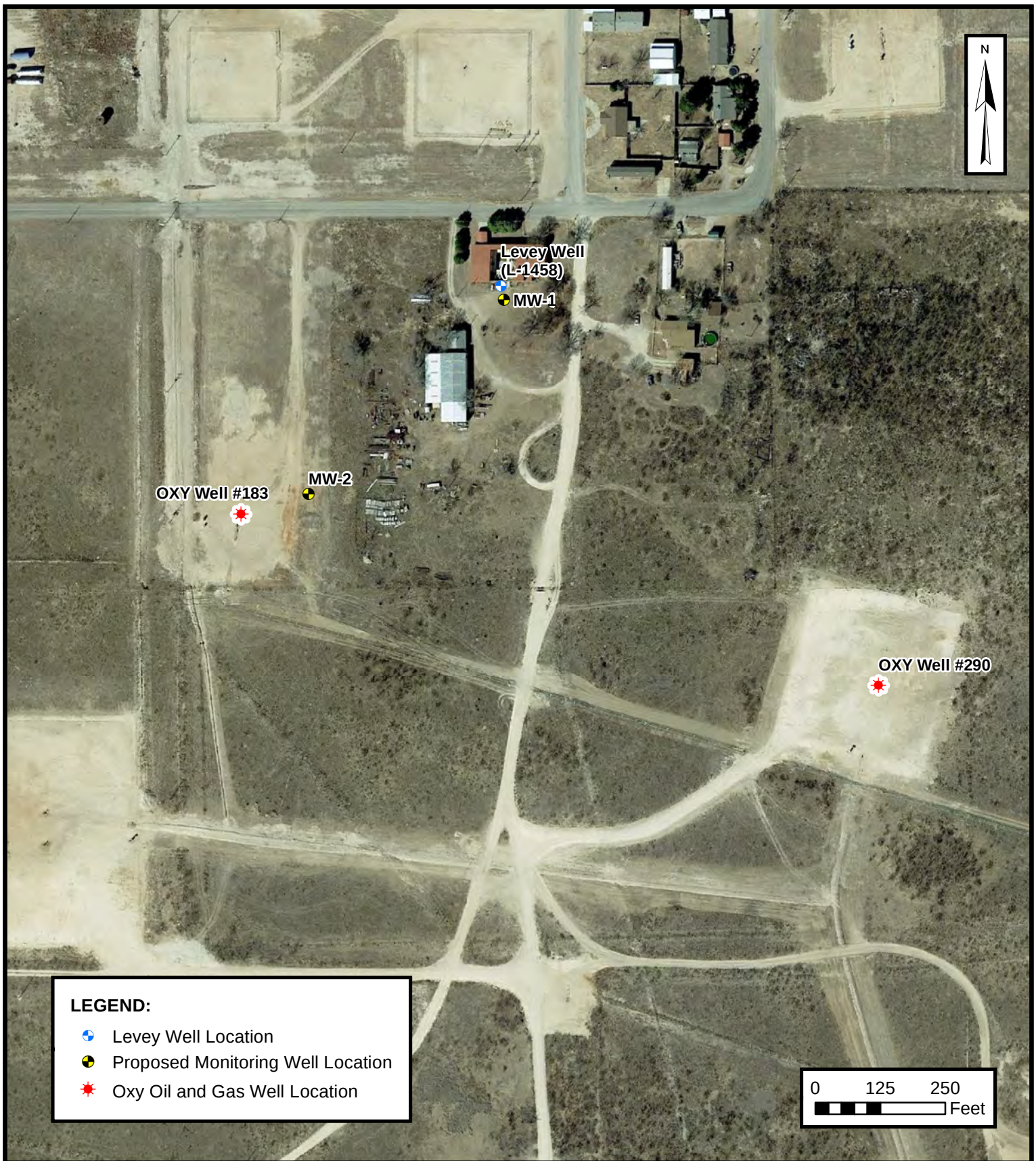
5.0 REFERENCES

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



APPENDIX A

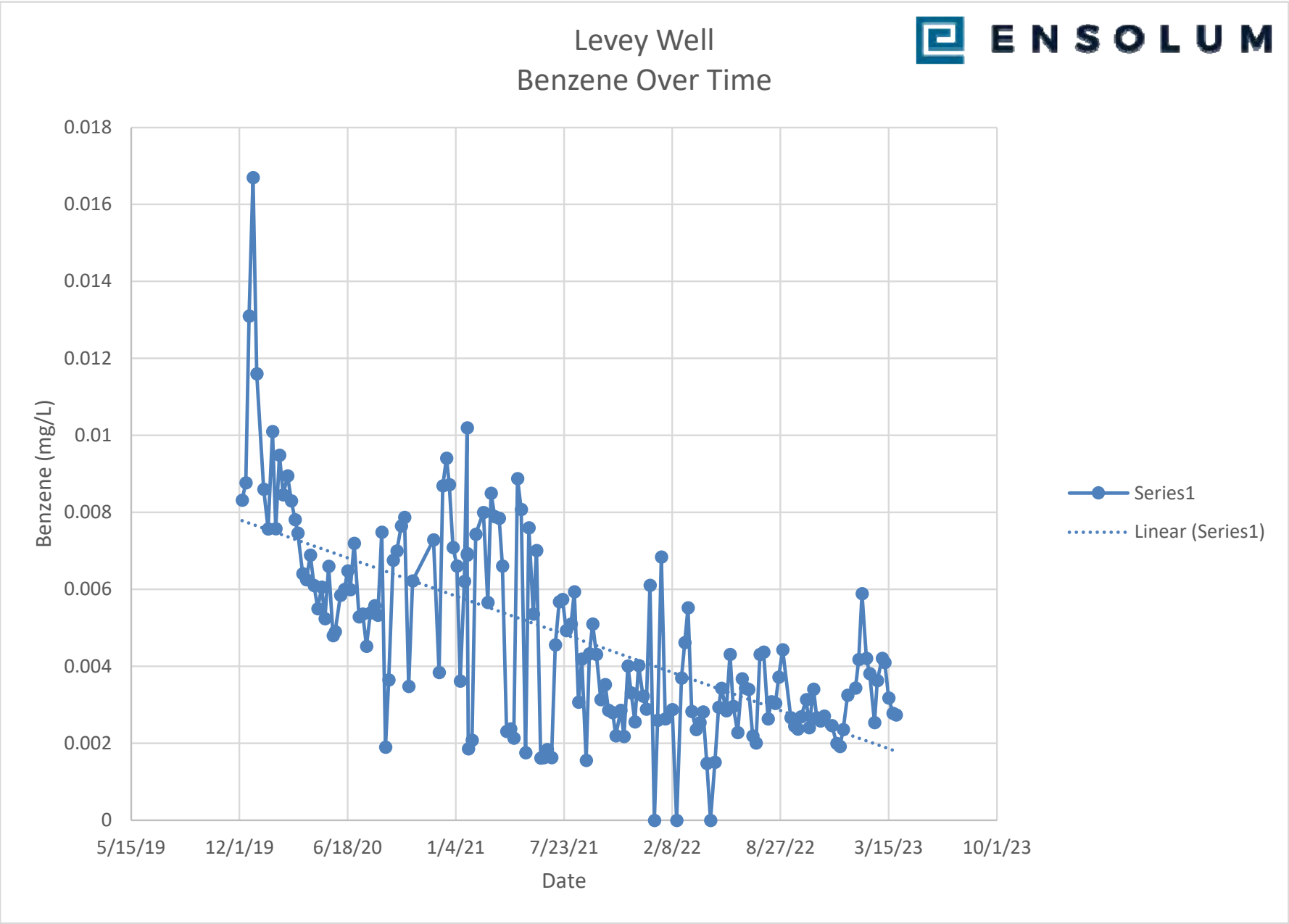
Figures and Graphs

**SITE MAP**

OCCIDENTAL PERMIAN LTD
S HOBBS G/SA UNIT
Unit F, Sec 5, T19S, R38E, Hobbs, New Mexico
32.690683° N, 103.173158° W

PROJECT NUMBER: 03B1417002

FIGURE**1**





APPENDIX B

Tables

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)ene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)ene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Napththalene	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	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	<0.00500	0.0143	<0.0100	0.0242	<0.00100	<0.00100	0		

Sample Designation		Date	VOCs (mg/l)																										
			Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Napthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-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															

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/6/2022	0.000940 J	0.00568	0.00394	0.00181	0.0134	0.0152	<0.00270	<0.000286	0.000577 J	<0.000195	0.000654 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000397 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00213	<0.00200	0.00127	<0.000228	<0.000623	0.0168	0.00498
	1/12/2022	0.00260	0.0190	0.01020	0.00573	0.0381	0.0438	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000621 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00707	<0.00200	0.00273	<0.000228	<0.000623	0.0197	<0.000279
	1/19/2022	0.00684	0.0520	0.0252	0.0158	0.0980	0.114	0.00679 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00123	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0118	<0.00200	0.00592	<0.000228	<0.000623	0.0296	0.00947
	1/26/2022	0.00264	0.0206	0.0103	0.00604	0.0392	0.0452	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000568 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00507	<0.00200	0.00258	<0.000228	<0.000623	0.0139	0.00433
	2/2/2022	Unable to Sample due to Incident 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
	7/7/2022	0.00219	0.0165	0.00779	0.00481	0.0314	0.0362	0.00545 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000399 J	<0.000285	<0.000396	<0.00									

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																														
Sample Designation	Date	VOCs (mg/l)																												
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE	
Levey Well	2/2/2023	0.00421	0.0338	0.0146	0.00885	0.0601	0.0690	<0.00828	0.000778 J	0.00121	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00695	<0.00135	0.0032	<0.000511	<0.000655	0.0112	0.00392	
	2/8/2023	0.00381	0.0269	0.0115	0.00734	0.0496	0.0569	<0.00828	<0.000644	0.00101	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00583	<0.00135	0.00265	<0.000511	<0.000655	0.0106	0.00335	
	2/17/2023	0.00254	0.0204	0.00982	0.00629	0.0396	0.0459	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00499	<0.00135	0.00238	<0.000511	<0.000655	0.0102	0.00316	
	2/22/2023	0.00363	0.0281	0.0133	0.00889	0.0540	0.0629	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00623	<0.00135	0.00302	<0.000511	<0.000655	0.0140	0.00426	
	3/3/2023	0.00421	0.0316	0.0145	0.00911	0.0581	0.0672	<0.00828	<0.000644	0.00117	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00698	<0.00135	0.00300	<0.000511	<0.000655	0.0124	0.00408	
	3/8/2023	0.00410	0.0288	0.0132	0.00896	0.0539	0.0629	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00618	<0.00135	0.00276	<0.000511	<0.000655	0.0138	0.00409	
	3/15/2023	0.00318	0.0245	0.0113	0.00747	0.0450	0.0525	<0.00828	<0.000644	0.000987 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00543	<0.00135	0.00250	<0.000511	<0.000655	0.0112	0.00329	
	3/23/2023	0.00278	0.0219	0.0103	0.00617	0.0393	0.0455	<0.00828	<0.000644	0.000873 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00513	<0.00135	0.00224	<0.000511	<0.000655	0.00930	0.00289	
3/29/2023	0.00274	0.0197	0.00898	0.00564	0.0349	0.0405	<0.00828	<0.000644	0.000857 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00462	<0.00135	0.00192	<0.000511	<0.000655	0.00798	0.00246		
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																							

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-1	9/29/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	10/7/2021	0.000252 J	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	0.000438 J	<0.000279
	10/13/2021	0.000214 J	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	10/21/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	11/5/2021	0.000247 J	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	11/11/2021	0.000458 J	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	11/18/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	11/24/2021	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/1/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000141	<0.000279
	12/8/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	12/16/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	12/22/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	12/29/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	1/6/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	1/12/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000396	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	1/19/2022	<0.000214	<0.000500	<0.000515	<0.000192	0.000640 J	0.000640 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000396	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	0.000414 J	<0.000279
	1/26/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000259	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	0.000623	<0.000252	<0.000279
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	0.000799 J	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	2/16/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	2/25/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/3/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/9/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/24/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233												

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

Sample Designation		Date	VOCs (mg/l)																										
			Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards			0.005	1	0.7	NE	NE	0.62	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-1	10/27/2022	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000456
	11/2/2022	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000456
	11/9/2022	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000456
	11/16/2022	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000456
	11/30/2022	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000456
	12/9/2022	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000456
	12/15/2022	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000456
	12/21/2022	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000456
	12/29/2022	<0.00053																											

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

Sample Designation	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	7/1/2021	Levey Well Now Running Full Time																											
	7/7/2021	0.0415	0.00962	0.0343	0.0215	0.235	0.257	<0.00270	<0.000286	0.00225	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00186	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0192	<0.00200	0.00525	<0.000228	<0.000623	0.0790	0.0193
	7/14/2021	0.0382	0.0335	0.0352	0.0299	0.149	0.177	<0.00270	<0.000286	0.00136	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00103	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0120	<0.00200	0.00352	<0.000228	<0.000623	0.0437	0.0110
	7/20/2021	0.0269	0.0104	0.0179	0.0166	0.116	0.133	<0.00270	<0.000286	0.00101	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00625	<0.00200	0.00182	<0.000228	<0.000623	0.0324	0.0117
	7/27/2021	0.0306	0.00861	0.0230	0.0154	0.117	0.129	<0.00270	<0.000286	0.00101	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00111	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00944	<0.00200	0.00258	<0.000228	<0.000623	0.0408	0.0118
	8/5/2021	0.0262	0.00661	0.0194	0.0108	0.113	0.124	<0.00270	<0.000286	0.000857 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000760 J	<0.000285	<0.000396	<0.000714	<0.000199	<0.000481	0.00898	<0.00200	0.00229	<0.000228	<0.000623	0.0274	0.00745
	8/11/2021	0.0280	0.00571	0.0272	0.0116	0.278	0.297	<0.00270	<0.000286	0.00145	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00118	<0.000285	<0.000396	<0.000714	<0.000199	<0.000481	0.0126	<0.00200	0.00370	<0.000228	<0.000623	0.0465	0.0123
	8/19/2021	0.0303	0.00626	0.0341	0.0141	0.324	0.347	<0.00270	<0.000266	0.00232	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00178	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0188	<0.00200	0.00576	<0.000228	<0.000623	0.0629	0.0168
	8/25/2021	0.0256	0.00530	0.0148	0.00844	0.0847	0.0931	<0.00270	<0.000286	0.000740 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000660 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00608	<0.00200	0.00169	<0.000228	<0.000623	0.0225	0.00510
	9/2/2021	0.0289	0.00557	0.0287	0.0135	0.295	0.317	<0.00270	0.00107	0.00155	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0151	<0.00200	0.00391	<0.000228	<0.000623	0.0499	0.0131
	9/8/2021	0.0308	0.00410	0.0245	0.0106	0.204	0.217	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0137	<0.00200	0.00370	<0.000228	<0.000623	0.0558	<0.000279
	9/14/2021	0.0310	0.00503	0.0350	0.0138	0.339	0.362	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00138	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0169	<0.00200	0.00509	<0.000228	<0.000623	0.0580	0.0150
	9/21/2021	0.0294	0.00288	0.0136	0.0141	0.135	0.149	<0.00270	<0.000286	0.00179	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00150	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0144	<0.00200	0.00296	<0.000228	<0.000623	0.0549	0.0132
	9/29/2021	0.0179	0.00311	0.0221	0.00740	0.115	0.122	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000781 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0103	<0.00200	0.00278	<0.000228	<0.000623	0.0265	0.00707
	10/7/2021	0.0221	0.00389	0.0214	0.00873	0.125	0.134	<0.00270	<0.000286	0.00101	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000840 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00824	<0.00200	0.00245	<0.000228	<0.000623	0.0310	0.00853
	10/13/2021	0.0239	0.0106	0.0223	0.0150	0.123	0.138	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000684 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00784	<0.00200	0.00193	<0.000228	<0.000623	0.0306	0.00840
	10/21/2021	0.0189	0.00361	0.0145	0.00749	0.107	0.114	<0.00270	<0.000286	0.00115	<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	0.0101	<0.00200	0.00253	<0.000228	<0.000623	0.0316	0.00875
	11/5/2021	0.0200	0.00476	0.0173	0.00743	0.0901	0.0975	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000616 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00733	<0.00200	0.00210	<0.000228	<0.000623	0.0223	0.00602
	11/11/2021	0.0221	0.00254	0.0192	0.00754	0.125	0.133	<0.00270	0.000898 J	0.00133	0.00234	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000949 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00971	<0.00200	0.00268	<0.000228	<0.000623	0.0376	0.00937
	11/18/2021	0.0331	0.00352	0.0311	0.0184	0.336	0.359	<0.00270	0.00130	0.00389	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00305	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0289	<0.00200	0.00724	<0.000228	<0.000623	0.116	0.0299
	11/24/2021	0.0207	0.00681	0.0266	0.0130																								

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

Sample Designation		Date	VOCs (mg/l)																											
			Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards			0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	8/31/2022	0.0326	0.00259	0.0498	0.0181	0.247	0.266	<0.00828	<0.000644	0.00259	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.00211	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0251	<0.00135	0.00714	<0.000511	<0.000655	0.0832	0.0203	
	9/15/2022	0.0145	0.000532 J	0.0194	0.00648	0.0978	0.104	<0.00828	<0.000644	0.00116	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0100	<0.00135	0.00282	<0.000511	<0.000655	0.0270	0.00712	
	9/22/2022	0.0208	0.00243	0.0289	0.0139	0.139	0.153	<0.00828	<0.000644	0.00137	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.000992 J	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0127	<0.00135	0.00361	<0.000511	<0.000655	0.0393	0.00971	
	9/28/2022	0.0155	0.00113	0.0133	0.00514	0.0584	0.0635	<0.00828	<0.000644	0.000720 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00651	<0.00135	0.00178	<0.000511	<0.000655	0.0201	0.00465	
	10/4/2022	0.0181	0.00323	0.0272	0.0131	0.127	0.140	<0.00828	<0.000644	0.00142	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.000948 J	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0127	<0.00135	0.00381	<0.000511	<0.000655	0.0351	0.00863	
	10/14/2022	0.0185	0.00378	0.0230	0.0128	0.105	0.118	<0.00828	<0.000644	0.000951 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00944	<0.00135	0.00276	<0.000511	<0.000655	0.0265	0.00672	
	10/19/2022	0.0141	0.00301	0.0156	0.00858	0.0773	0.0859	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00722	<0.00135	0.00209	<0.000511	<0.000655	0.0222	0.00535	
	10/27/2022	0.0163	0.00752	0.0186	0.0133	0.0934	0.107	<0.00828	<0.000644	0.00140	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.00129	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00687	<0.00135	0.00218	<0.000511	<0.000655	0.0192	0.00612	
	11/2/2022	0.0150	0.00408	0.0147	0.00992	0.0750	0.0849	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00716	<0.00135	0.00189	<0.000511	<0.000655	0.0191	0.00516	
	11/9/2022	0.0126	0.00375	0.00933	0.00634	0.0463	0.0526	<0.00828	<0.000644	0.000498 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00395	<0.00135	0.00122	<0.000511	<0.000655	0.0102	0.00296	
	11/16/2022	0.0163	0.00422	0.0144	0.00890	0.0668	0.0757	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00688	<0.00135	0.00182	<0.000511	<0.000655	0.0210	0.00478	
	11/30/2022	0.0125	0.00266	0.00651	0.00407	0.0290	0.0331	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00325	<0.00135	0.00100	<0.000511	<0.000655	0.00888	0.00209	
	12/9/2022	0.0133	0.00193	0.0135	0.00773	0.0721	0.0798	<0.00828	<0.000644	0.000945 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00830	<0.00135	0.00232	<0.000511	<0.000655	0.0238	0.00582	
	12/15/2022	0.0148	0.00512	0.0172	0.01210	0.0864	0.0985	<0.00828	<0.000644	0.00102	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00860	<0.00135	0.00233	<0.000511	<0.000655	0.0247	0.00598	
	12/21/2022	0.0139	0.00276	0.0150	0.00894	0.0679	0.0768	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00801	<0.00135	0.00229	<0.000511	<0.000655	0.0184	0.00481	
	12/29/2022	0.0189	0.00554	0.0148	0.01090	0.0583	0.0692	<0.00828	<0.000644	0.000482 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00533	<0.00135	0.00143	<0.000511	<0.000655	0.0130	0.00340	
	1/4/2023	0.0171	0.00237	0.0141	0.00970	0.0788	0.0885	<0.00828	<0.000644	0.000971 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00890	<0.00135	0.00234	<0.000511	<0.000655	0.0257	0.00599	
	1/13/2023	0.0108	0.00141	0.00784	0.00466	0.0387	0.0434	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00527	<0.00135	0.00122	<0.000511	<0.000655	0.0123	0.00280	
	1/19/2023	0.0140	0.00274	0.00951	0.00742	0.0484	0.0558	<0.00828	<0.000644	0.000586 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00538	<0.00135	0.00141	<0.000511	<0.000655	0.0129	0.00326	
	1/25/2023	0.0115	0.00124	0.00655	0.00433	0.0294	0.0337	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00327	<0.00135	0.000899 J	<0.000511	<0.000655	0.00796	0.00205	
	2/2/2023	0.0138	0.00114	0.00696	0.00447	0.0352	0.0397	<0.00828	<0.000644	0.000511 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00437	<0.00135	0.00111	<0.000511	<0.000655	0.0103	0.00276	
	2/8/2023	0.0165	0.00284	0.0187	0.01190	0.0787	0.0906	<0.00828	<0.000644	0.000970 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00892	<0.00135	0.00274	<0.000511	<0.000655	0.0232	0.00621	
	2/17/2023	0.0139	0.00624	0.00991	0.00823	0.0486	0.0568	<0.00828	<0.000644	0.000616 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.0118	<0.000472	<0.000919	<0.000590	<0.000667	<0.0000714	<0.0000513	<0.00160	0.00587	<0.00135	0.00146	<0.000511	<0.000655	0.0151	0.00385	
	2/22/2023	0.0153	0.0274	0.0152	0.0146	0.0637	0.0783	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.0118	<0.000472	<0.000919	<0.000590	<0.000667	<0.0000714	<0.0000513	<0.00160	0.005							

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

Sample Designation		Date	(mg/l)													%	SU
			Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)		
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards			NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
Levey Well	12/6/2019	<0.500	253	<0.500	0.594	0.199	61.5	405	65.0	5.27	83.7	1,680	1,260	<4.00	2.70	6.45	
	12/13/2019	<0.500	315	<0.500	0.744	0.222	72.9	450	80.1	6.71	110	1,900	1,230	<4.00	2.00	7.02	
	12/19/2019	0.414 J	311	0.381 J	0.539	<0.0293	62.9	411	72.2	5.61	101	1,640	1,140	<4.00	0.200	6.57	
	12/26/2019	<0.500	257	<0.500	0.617	0.204	61.7	418	68.8	5.82	88.5	1,760	1,280	<4.00	1.30	6.44	
	1/2/2020	<0.500	302	<0.500	0.331	<0.100	60.6	375	70.5	5.96	98.8	1,630	1,150	<4.00	2.40	6.83	
	1/15/2020	<0.500	190	0.559	0.129	0.930	53.5	401	66.8	4.82	82.9	1,570	1,260	<4.00	0	6.35	
	1/23/2020	<0.500	195	0.617	0.126	0.128	46.2	426	76.3	8.84	86.4	1,530	1,230	<4.00	1.60	6.21	
	1/31/2020	<0.500	197	0.616	0.129	<0.100	48.5	446	79.1	7.43	89.5	1,440	1,230	<4.00	3.20	6.15	
	2/6/2020	<0.500	316	<0.500	0.179	<0.100	64.2	430	76.0	7.60	101	1,100	1,180	<4.00	1.10	6.07	
	2/13/2020	<2.50	293	0.623	0.178	<0.500	57.3	409	74.5	6.80	95.7	1,640	1,200	<4.00	0.300	6.04	
	2/20/2020	<0.500	272	0.586	0.157	<0.100	49.6	421	71.4	6.38	91.4	1,690	1,220	<4.00	0.300	5.93	
	2/28/2020	<0.500	307	<0.500	1.05	1.35	56.6	438	74.0	5.98	97.4	1,620	1,230	<4.00	0.400	6.12	
	3/6/2020	<0.500	284	0.621	0.107	1.27	56.2	418	67.9	5.60	92.7	1,880	1,230	<4.00	0.800	6.26	
	3/13/2020	<0.500	316	0.629	<0.100	<0.100	59.3	393	63.3	5.32	91.2	1,770	1,200	<4.00	4.30	6.23	
	3/18/2020	0.533	332	0.642	0.128	<0.100	63.5	391	67.4	5.56	95.7	1,680	1,180	<4.00	3.80	6.44	
	3/27/2020	0.533	324	0.728	<0.100	<0.100	57.6	418	70.3	5.91	105	1,610	1,180	<4.00	0.200	6.57	
	4/3/2020	<0.500	304	0.807	0.110	<0.100	57.3	417	69.0	5.91	101	1,960	1,180	<4.00	0.200	6.37	
	4/10/2020	0.575	351	0.612	0.172	<0.100	61.8	431	72.3	6.17	104	1,930	1,190	<4.00	0.600	6.73	
	4/17/2020	0.590	353	0.691	0.165	<0.100	59.7	406	73.2	5.40	108	1,750	1,180	<4.00	1.70	6.51	
	4/24/2020	0.595	370	0.723	0.152	<0.100	61.2	408	75.2	5.55	113	1,810	1,130	<4.00	0.600	6.32	
	5/1/2020	0.576	376	0.686	0.140	<0.100	61.8	402	74.6	5.39	106	1,750	1,130	<4.00	1.90	6.37	
	5/7/2020	0.517	365	0.675	0.163	<0.100	58.8	425	70.5	5.57	108	1,640	1,140	<4.00	0.00	6.55	
	5/14/2020	0.571	409	0.585	0.160	<0.100	56.0	412	76.5	6.23	107	1,900	1,200	<4.00	3.70	6.34	
	5/22/2020	0.531	319	0.561	1.550	<0.100	30.1	354	63.7	5.24	97.4	1,360	1,190	<4.00	6.10	6.54	
	5/26/2020	0.549	357	0.688	0.153	<0.100	44.5	356	69.6	5.67	102	1,650	1,170	<4.00	6.30	6.42	
	6/5/2020	0.640	417	0.535	0.139	<0.100	39.9	379	73.3	5.92	108	1,670	1,160	<4.00	5.90	6.30	
	6/12/2020	0.602	359	0.697	0.145	<0.100	43.9	386	72.4	6.70	106	1,670	1,140	<4.00	2.40	6.22	
	6/18/2020	0.576	431	<5.00	0.144	<0.100	39.5	418	78.8	6.23	115	1,800	1,180	<4.00	2.40	6.28	
	6/23/2020	0.586	398	<5.00	0.136	<0.100	33.3	361	66.3	5.48	98.2	1,920	1,190	<4.00	8.40	6.23	
	6/30/2020	0.695	431	<5.00	0.149	<0.100	37.9	437	78.6	6.70	113	1,830	1,170	<4.00	2.60	6.39	
	7/9/2020	0.647	413	<5.00	0.147	0.215	40.5	421	78.5	6.58	114	1,790	1,170	<4.00	1.50	6.37	
	7/16/2020	0.657	390	<5.00	0.128	<0.100	40.6	402	77.6	7.01	114	1,890	1,170	<4.00	1.90	6.34	
	7/23/2020	0.621	396	<5.00	0.175	0.169	36.5	419	74.0	6.58	111	2,000	1,160	<4.00	1.10	6.22	
	7/30/2020	0.669	390	0.625	0.181	<0.100	39.3	397	71.4	5.59	103	1,910	1,170	<4.00	3.70	6.18	
	8/7/2020	0.631	387	0.526	0.186	1.75	36.1	404	79.5	6.73	111	1,810	1,150	<4.00	0.900	6.12	
	8/13/2020	0.713	408	0.505	0.191	1.45	34.9	368	75.1	6.54	115	1,980	1,150	<4.00	5.00	6.26	
	8/20/2020	0.690	449	<0.500	0.164	<0.100	38.7	389	69.0	5.99	113	2,000	1,090	<4.00	4.40	6.18	
	8/27/2020	0.846	582	<0.500	0.158	1.68	49.4	446	82.6	7.17	161	2,570	973	<4.00	1.50	6.35	
	9/2/2020	0.868	635	<0.500	0.159	<0.100	48.1	422	77.9	7.25	168	1,620	1,030	<4.00	3.40	6.30	
	9/10/2020	0.714	499	<0.500	<0.100	1.61	41.9	387	79.4	6.53	133	1,980	1,090	<4.00	4.20	6.10	
	9/17/2020	0.769	472	<0.500	0.272	1.06	40.8	467	73.4	6.45	119	1,930	1,110	<4.00	1.10	6.14	
	9/25/2020	0.779	541	<0.500	0.150	<0.100	44.0	386	75.9	5.86	133	1,680	1,110	<4.00	6.70	6.17	
	10/1/2020	0.721	466	<0.500	0.173	<0.100	41.4	398	75.5	6.25	124	1,940	1,110	<4.00	3.30	6.07	
	10/9/2020	0.786	527	<0.500	0.161	<0.100	43.8	426	79.8	6.90	139	2,220	1,090	<4.00	1.90	6.21	
	10/16/2020	0.595	460	0.511	<0.100	<2.00	45.7	376	72.5	5.90	122	2,020	1,080	<4.00	4.80	6.20	
	11/24/2020	0.817	572	<0.500	0.124	2.07	37.5	438	79.6	6.56	141	2,200	1,100	<4.00	2.60	6.45	
	12/4/2020	0.687	706	<0.500	0.142	3.27	30.9	405	75.8	7.09	143	2,000	1,050	<4.00	9.30	6.33	
	12/11/2020	0.816	487	0.949	0.197	1.80	33.4	445	82.0	6.90	133	1,990	1,160	<4.00	0.200	6.20	
	12/18/2020	0.763	497	<5.00	0.129	1.87	37.6	424	79.5	6.97	137	1,910	1,180	<4.00	2.70	6.39	
	12/23/2020	0.613	477	<5.00	0.108	<0.100	38.3	416	78.2	7.82	129	1,800	1,290	<4.00	5.70	6.22	
12/30/2020	0.712	493	<0.500	<0.100	<0.100	40.1	448	80.0	6.21	139	2,120	1,340	<4.00	4.40	6.14		
1/6/2021	0.784	504	<0.500	0.155	2.61	23.0	400	79.8	6.14	135	2,210	1,340	<4.00	8.10	6.27		
1/12/2021	0.605	326	<0.500	0.137	1.05	<0.500	324	64.3	5.68	97.8	1,680	1,160	<4.00	7.00	6.57		
1/20/2021	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											

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

Sample Designation		Date	(mg/l)													%	SU
			Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)		
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	1,000.0	NE	NE	NE	6-9	
Levey Well	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 Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.															
	2/8/2022	0.780	329	1.24	<0.0391	0.420	62.0	272	58.5	4.77	97.0	1,410	756	<4.00	-11.40	6.5	
	2/16/2022	0.488 J	217	0.769	0.0551 J	0.349	27.9	212	46.2	3.76	74.5	1,070	555	<4.00	-6.59	6.6	
	2/25/2022	0.726	484	0.902	0.141	<0.0293	31.2	429	78.2	6.80	139	1,960	1,210	<4.00	-9.05	6.4	
	3/3/2022	0.606	380	1.76	0.220	0.175	39.8	410	78.2	7.36	137	2,130	1,190	<4.00	-6.76	6.3	
	3/9/2022	0.507	355	1.10	0.147	<0.0293	42.6	422	79.4	7.55	129	1,820	1,160	<4.00	-4.98	6.3	
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.															
	3/16/2022	0.380 J	229	0.464 J	0.208	<0.0293	42.2	258	55.9	4.48	85.6	1,190	673	<4.00	-4.29	6.4	
	3/24/2022	0.539	230	0.709	<0.0391	<0.0293	43.4	252	51.3	4.07	81.5	1,390	644	<4.00	-4.80	6.5	
	3/31/2022	0.515	223	0.690	0.239	<0.0293	44.0	245	52.7	3.79	77.2	1,220	641	<4.00	-5.18	6.4	
	4/6/2022	0.540	218	0.868	0.0931 J	<0.0293	42.4	256	50.3	3.90	76.6	1,220	619	<4.00	-2.94	6.4	
	4/13/2022	0.400 J	212	0.773	0.111	<0.0293	42.0	256	51.3	3.87	74.5	1,200	650	<4.00	-3.94	6.6	
	4/20/2022	0.496 J	218	0.651	0.268	<0.0293	44.6	238	48.7	4.05	75.0	1,260	686	<4.00	-8.77	6.6	
	4/28/2022	0.477 J	214	0.690	0.104	<0.0293	43.2	272	55.4	4.43	84.3	1,140	658	<4.00	-1.11	6.8	
	5/5/2022	0.352 J	217	0.567	0.737 J	1.93	41.8	233	49.1	3.67	82.4	1,210	659	<4.00	-7.39	6.6	
	5/10/2022	0.589	219	0.643	0.100	<0.0293	44.6	301	61.6	4.74	90.5	1,080	652	<4.00	2.74	6.4	
	5/19/2022	0.551	217	0.519	<0.0391	<0.0293	45.9	242	51.7	4.08	74.8	1,040	421	<4.00	5.76	6.7	
	5/26/2022	0.606	212	0.714	0.0986 J	2.77	41.2	215	38.7	2.93	66.7	1,240	683	<4.00	-11.5	6.2	
	6/1/2022	0.449 J	205	0.788	0.0622 J	<0.0293	37.2	219	42.0	3.22	67.7	1,100	402	<4.00	2.15	7.0	
	6/9/2022	0.395 J	215	0.332 J	0.0721 J	<0.0293	44.2	295	53.3	4.27	80.9	1,170	712	<4.00	-1.83	6.3	
	6/17/2022	0.282 J	204	0.643	0.151	<0.0293	43.9	190	35.3	2.54	59.9	1,160	619	<4.00	-16.7	6.4	
	6/23/2022	0.321 J	206	0.377 J	0.250	<0.0293	38.4	306	47.2	3.80	73.0	1,150	454	<4.00	11.3	6.5	
	6/29/2022	0.350 J	213	0.505	0.207	<0.0293	44.4	243	49.9	3.79	77.7	889	674	<4.00	-6.92	6.3	
	7/7/2022	0.425 J	214	0.609	<0.0391	<0.0293	46.0	251	50.6	3.88	77.0	1,470	592	<4.00	-2.28	6.5	
	7/13/2022	0.393 J	212	0.663	0.129	<0.0293	46.2	245	48.1	3.89	74.2	1,160	417	<4.00	5.53	6.3	
	7/20/2022	0.468 J	207	0.383 J	0.0538 J	<0.0293	47.5	251	51.8	4.12	77.2	1,170	742	<4.00	-8.12	6.4	
	7/27/2022	0.437 J	209	0.349 J	0.201	<0.0293	46.2	215	42.6	3.22	68.3	1,350	601	<4.00	-9.64	6.7	
	8/4/2022	0.483 J	211	0.453 J	0.236	<0.0293	45.4	199	39.8	3.04	65.6	1,300	600	<4.00	-13.2	6.4	
	8/10/2022	0.464 J	215	0.475 J	0.103	<0.0293	44.3	278	53.6	4.27	78.9	1,160	567	<4.00	3.02	6.5	
	8/18/2022	0.473 J	213	0.552	0.157	<0.0293	45.4	261	52.0	4.22	80.6	1,370	563	<4.00	0.748	6.5	
	8/24/2022	0.500	222	0.674	<0.100	<0.100	48.7	229	46.5	3.28	72.0	1,280	728	<4.00	-12.7	6.6	
	8/31/2022	0.434 J	217	0.468 J	<0.0391	<0.0293	46.8	253	50.7	4.20	79.3	1,270	651	<4.00	-4.91	6.9	
	9/15/2022	1.55	218	0.688	0.116	<0.0293	47.4	241	52.6	4.39	81.7	1,170	618	<4.00	-4.19	6.4	
9/22/2022	0.468 J	217	0.316 J	0.546	<0.0293	52.8	179	39.9	3.11	66.4	1,250	613	<4.00	-17.7	6.4		
9/28/2022	2.32	214	0.688	0.234	<0.0293	47.2	242	48.3	4.11	73.6	1,160	592	<4.00	-4.04	6.4		



TABLE 2
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 Levey Well
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	(mg/l)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)		
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	10/4/2022	0.515	200	0.740	0.396	<0.0293	45.0	242	50.2	4.07	78.2	706	456	<4.00	4.21	6.6
	10/14/2022	0.495 J	212	0.655	0.464	<0.0293	49.1	208	42.7	3.22	68.5	1,250	719	<4.00	-16.5	6.3
	10/19/2022	1.08 J	206	0.612 J	0.359	<0.0293	46.0	250	51.3	4.05	81.9	1,340	676	<4.00	-5.64	6.6
	10/27/2022	0.412 J	201	0.631	0.0757 J	0.690	40.1	322	64.8	5.47	95.2	977	740	<4.00	3.53	6.4
	11/2/2022	0.473 J	216	0.509	0.165	<0.0293	46.1	247	49.2	4.26	76.4	1,230	681	<4.00	-6.86	6.3
	11/9/2022	0.461 J	218	0.683	0.0934 J	<0.0293	46.5	238	44.2	3.36	73.3	1,450	708	<4.00	-11.0	6.5
	11/16/2022	0.480 J	219	0.493 J	0.154	<0.0293	47.5	250	50.0	4.20	78.0	1,340	611	<4.00	-3.43	6.8
	11/30/2022	0.487 J	218	0.710	0.0811 J	<0.0293	44.9	208	43.2	3.12	70.9	1,270	618	<4.00	-11.7	6.7
	12/9/2022	0.335 J	206	0.685	0.153	0.108	40.5	244	49.3	3.61	62.9	1,170	626	<4.00	-5.72	6.5
	12/15/2022	0.311 J	211	0.628	0.137	<0.0293	40.5	254	48.3	4.05	76.3	956	440	<4.00	6.29	6.3
	12/21/2022	0.392 J	214	0.732	0.144	<0.0293	44.5	258	49.1	4.69	80.4	1,130	656	<4.00	-3.79	6.5
	12/29/2022	0.515	209	0.568	10.4	2.66	43.5	242	45.9	3.93	74.9	1,060	670	<4.00	-7.08	6.6
	1/4/2023	Electrical Failure, Unable to Sample.														
	1/13/2023	0.562	292	0.202 J	0.227	<0.0293	35.2	393	71.7	6.96	125	1,800	949	<4.00	1.05	6.4
	1/19/2023	0.658	304	0.191 J	0.109	<0.0293	53.7	450	84.0	7.71	133	1,730	1,140	<4.00	0.441	6.3
	1/25/2023	0.525	298	0.207 J	0.0992 J	<0.0293	46.7	416	72.6	6.84	119	1,760	1,110	<4.00	-2.84	6.7
	2/2/2023	0.609	309	<0.100	0.256	<0.0293	43.5	366	69.4	6.39	113	1,680	1,120	<4.00	-8.22	6.4
	2/8/2023	0.514	224	0.443 J	0.108	<0.0293	44.6	228	46.7	4.18	78.0	1,230	704	<4.00	-11.0	6.7
	2/17/2023	0.403 J	231	0.632	0.0839 J	<0.0293	50.5	234	46.5	3.96	74.4	1,190	651	<4.00	-9.14	6.5
	2/22/2023	0.442 J	214	0.464 J	0.0849 J	<0.0293	46.8	246	50.4	4.19	78.6	1,160	732	<4.00	-8.94	6.3
	3/3/2023	0.457 J	327	0.148 J	0.0946 J	<0.0293	60.9	376	67.6	6.40	117	1,500	921	<4.00	-2.26	6.3
	3/8/2023	0.488 J	222	0.425 J	0.106	<0.0293	49.2	250	48.8	3.95	72.6	1,380	696	<4.00	-8.10	6.3
	3/15/2023	0.453 J	220	0.314 J	0.0651 J	<0.0293	49.2	224	43.1	3.66	70.0	1,030	691	<4.00	-12.3	6.3
	3/23/2023	0.454 J	221	0.896	0.0721 J	<0.0293	50.7	248	51.3	4.11	91.2	1,190	689	<4.00	-0.0255	6.5
	3/29/2023	0.438 J	217	0.504	0.0578 J	0.157	46.3	254	50.8	4.44	79.9	1,130	684	<4.00	-5.81	6.3



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 Levey Well
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Sample Designation	Date	(mg/l)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)		
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 Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.								
	2/8/2022	NA	189	0.631	0.0688 J	0.358	49.6			NA			380	<4.00	NA	6.9
	2/16/2022	NA	151	0.712	0.0561 J	0.344	41.5			NA			384	<4.00	NA	7.1
	2/25/2022	NA	171	0.739	0.125	0.156	50.3			NA			342	<4.00	NA	7.1
	3/3/2022	NA	158	0.531	0.198	0.181	45.9			NA			360	<4.00	NA	6.9
	3/9/2022	NA	148	0.454 J	0.170	<0.0293	45.4			NA			323	<4.00	NA	7.2
	3/14/2022							Booster Pump for Levey Well Repaired and Back on Running Full Time.								
	3/16/2022	NA	145	0.546	0.147	<0.0293	38.1			NA			339	<4.00	NA	7.0



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

Sample Designation	Date	(mg/l)														%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9	
MW-1	3/24/2022	NA	147	0.610	<0.0391	<0.0293	42.9			NA			297	<4.00	NA	7.2	
	3/31/2022	NA	143	0.568	0.164	<0.0293	40.4			NA			275	<4.00	NA	7.1	
	4/6/2022	NA	133	0.677	0.186	<0.0293	39.7			NA			262	<4.00	NA	7.1	
	4/13/2022	NA	129	0.767	<0.0391	<0.0293	40.9			NA			259	<4.00	NA	7.6	
	4/20/2022	NA	173	0.574	0.152	0.176	42.4			NA			362	<4.00	NA	7.0	
	4/28/2022	NA	136	0.608	0.0700 J	0.0717 J	41.7			NA			300	<4.00	NA	7.5	
	5/5/2022	NA	118	0.746	<0.0391	1.75	41.1			NA			253	<4.00	NA	7.2	
	5/10/2022	NA	116	0.709	0.0815 J	<0.0293	43.9			NA			250	<4.00	NA	7.2	
	5/19/2022	NA	106	0.643	0.0743 J	0.199	41.0			NA			262	<4.00	NA	7.1	
	5/26/2022	NA	98.7	0.720	0.0777 J	0.809	44.7			NA			256	<4.00	NA	7.2	
	6/1/2022	NA	100	0.690	0.0629 J	<0.0293	46.4			NA			240	<4.00	NA	7.4	
	6/9/2022	NA	99.9	0.743	<0.0391	<0.0293	46.6			NA			246	<4.00	NA	7.1	
	6/17/2022	NA	83.5	0.710	0.146	0.275	47.9			NA			253	<4.00	NA	7.3	
	6/23/2022	NA	83.9	0.616	0.238	<0.0293	47.7			NA			258	<4.00	NA	7.2	
	6/29/2022	NA	84.8	0.644	0.199	0.556	48.0			NA			264	<4.00	NA	7.2	
	7/7/2022	NA	83.7	0.660	0.0413 J	0.0458 J	47.7			NA			238	<4.00	NA	7.4	
	7/13/2022	NA	91.3	0.778	0.102	<0.0293	49.2			NA			253	<4.00	NA	7.2	
	7/20/2022	NA	81.5	0.766	<0.0391	<0.0293	48.5			NA			249	<4.00	NA	7.2	
	7/27/2022	NA	85.8	0.766	0.0482 J	<0.0293	47.2			NA			268	<4.00	NA	7.7	
	8/4/2022	NA	77.5	0.633	0.126	0.118	43.1			NA			253	<4.00	NA	7.2	
	8/10/2022	NA	68.3	0.737	<0.0391	0.212	40.9			NA			278	<4.00	NA	7.2	
	8/18/2022	NA	77.7	0.752	0.0696 J	0.154	39.4			NA			262	<4.00	NA	7.0	
	8/24/2022	NA	92.0	0.739	<0.100	<0.100	40.8			NA			273	<4.00	NA	7.2	
	8/31/2022	NA	85.9	0.628	<0.0391	<0.0293	36.7			NA			277	<4.00	NA	7.4	
	9/15/2022	NA	86.4	1.03	0.0909 J	0.206	33.4			NA			277	<4.00	NA	7.0	
	9/22/2022	NA	95.8	0.585	0.518	<0.0293	38.4			NA			280	<4.00	NA	7.3	
	9/28/2022	NA	91.2	0.702	<0.0391	<0.0293	32.8			NA			285	<4.00	NA	7.3	
	10/4/2022	NA	75.6	0.803	0.376	0.201	33.7			NA			272	<4.00	NA	7.2	
	10/14/2022	NA	81.0	0.807	0.360	0.195	33.1			NA			266	<4.00	NA	7.3	
	10/19/2022	NA	136	<0.100	<0.0391	<0.0293	19.2			NA			283	<4.00	NA	7.4	
	10/27/2022	NA	80.4	0.750	0.0601 J	0.423	29.8			NA			277	<4.00	NA	7.4	
	11/2/2022	NA	80.0	0.681	0.120	0.154	29.8			NA			252	<4.00	NA	7.2	
	11/9/2022	NA	81.1	0.746	0.141	0.117	32.5			NA			294	<4.00	NA	7.4	
	11/16/2022	NA	82.2	0.738	0.120	0.384	30.9			NA			282	<4.00	NA	7.3	
	11/30/2022	NA	88.1	0.602	0.140	0.141	45.4			NA			300	<4.00	NA	7.3	
	12/9/2022	NA	83.7	0.809	0.0610 J	0.247	44.2			NA			309	<4.00	NA	7.5	
	12/15/2022	NA	82.1	0.786	<0.0391	0.121	44.3			NA			348	<4.00	NA	7.2	
	12/21/2022	NA	84.4	0.676	0.0802 J	<0.0293	43.6			NA			377	<4.00	NA	7.3	
	12/29/2022	NA	77.3	0.555	0.211	0.310	33.4			NA			409	<4.00	NA	7.1	
	1/4/2023	NA	75.9	0.863	0.0857 J	<0.0293	39.7			NA			354	<4.00	NA	7.4	
	1/13/2023	NA	76.2	0.600	0.208	0.266	41.1			NA			357	<4.00	NA	7.2	
	1/19/2023	NA	82.6	0.624	<0.0391	<0.0293	49.2			NA			340	<4.00	NA	7.1	
	1/25/2023	NA	73.7	0.631	0.0564 J	0.149	47.7			NA			363	<4.00	NA	7.4	
	2/2/2023	NA	75.4	0.670	0.223	0.196	47.2			NA			329	<4.00	NA	7.1	
	2/8/2023	NA	84.5	0.607	0.0542 J	0.133	54.7			NA			360	<4.00	NA	7.2	
	2/17/2023	NA	102	0.763	<0.0391	<0.0293	65.2			NA			432	<4.00	NA	7.5	
	2/22/2023	NA	87.3	0.528	<0.0391	<0.0293	55.6			NA			418	<4.00	NA	7.1	
	3/3/2023	NA	70.8	0.703	0.0671 J	0.0580 J	47.8			NA			310	<4.00	NA	7.2	
3/8/2023	NA	94.9	0.471 J	0.0666 J	<0.0293	55.9			NA			397	<4.00	NA	7.0		
3/15/2023	NA	93.9	0.636	<0.0391	<0.0293	51.0			NA			412	<4.00	NA	7.1		
3/23/2023	NA	92.9	0.485 J	0.0908 J	<0.0293	50.9			NA			398	<4.00	NA	7.1		
3/29/2023	NA	91.6	0.619	<0.0391	0.293	46.7			NA			474	<4.00	NA	7.1		



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

Sample Designation	Date	(mg/l)														%	SU		
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance				
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 Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																	
	2/8/2022	NA	148	0.156 J	0.683	1.03	125	NA				1,290	<4.00	NA		6.1			
	2/16/2022	NA	186	0.409 J	0.809	0.338	113	NA				1,320	<4.00	NA		6.2			
	2/25/2022	NA	133	0.704	0.536	0.647	154	NA				1,280	<4.00	NA		6.3			
	3/3/2022	NA	126	<0.100	0.776	0.992	112	NA				1,360	<4.00	NA		6.1			
	3/9/2022	NA	167	<0.100	0.789	2.12	133	NA				1,330	<4.00	NA		6.2			
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																	
	3/16/2022	NA	165	<0.100	0.890	1.47	135	NA				1,350	<4.00	NA		6.2			
	3/24/2022	NA	140	<0.100	<0.0391	0.389	120	NA				1,320	<4.00	NA		6.3			



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

Sample Designation	Date	(mg/l)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)		
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	3/31/2022	NA	150	<0.100	<0.0391	1.65	106			NA			1,340	<4.00	NA	6.3
	4/6/2022	NA	130	0.175 J	0.619	1.60	111			NA			1,360	<4.00	NA	6.2
	4/13/2022	NA	135	0.271 J	0.589	1.67	108			NA			1,380	<4.00	NA	6.5
	4/20/2022	NA	198	0.174 J	0.966	0.722	121			NA			1,330	<4.00	NA	6.4
	4/28/2022	NA	156	0.172 J	0.711	0.434	118			NA			1,380	<4.00	NA	6.4
	5/5/2022	NA	116	0.229 J	0.586	11.5	112			NA			1,330	<4.00	NA	6.3
	5/10/2022	NA	134	0.230 J	0.548	1.83	120			NA			1,320	<4.00	NA	6.3
	5/19/2022	NA	133	0.116 J	<0.0391	0.373	118			NA			1,380	<4.00	NA	6.2
	5/26/2022	NA	107	0.196 J	0.392	1.14	104			NA			1,320	<4.00	NA	6.0
	6/1/2022	NA	130	0.107 J	0.481	1.47	116			NA			1,340	<4.00	NA	6.3
	6/9/2022	NA	103	<0.100	0.330	0.236	103			NA			1,320	<4.00	NA	6.2
	6/17/2022	NA	99.0	0.213 J	0.395	0.702	102			NA			1,290	<4.00	NA	6.4
	6/23/2022	NA	109	<0.100	0.494	5.21	107			NA			1,270	<4.00	NA	6.3
	6/29/2022	NA	82.6	0.111 J	0.351	0.827	89.7			NA			1,330	<4.00	NA	6.2
	7/7/2022	NA	107	0.141 J	0.399	0.440	98.3			NA			1,300	<4.00	NA	6.4
	7/13/2022	NA	95.3	0.262 J	0.306	1.23	100			NA			1,280	<4.00	NA	6.2
	7/20/2022	NA	134	<0.100	0.485	1.46	122			NA			1,360	<4.00	NA	6.3
	7/27/2022	NA	101	<0.100	0.403	3.86	105			NA			1,340	<4.00	NA	6.4
	8/4/2022	NA	107	0.112 J	0.451	0.477	99.9			NA			1,250	<4.00	NA	6.2
	8/10/2022	NA	89.4	0.189 J	0.189	0.210	97.2			NA			1,260	<4.00	NA	6.3
	8/18/2022	NA	99.1	0.122 J	0.333	0.303	100			NA			1,280	<4.00	NA	6.3
	8/24/2022	NA	110	0.172 J	0.282	0.427	103			NA			1,290	<4.00	NA	6.3
	8/31/2022	NA	94.8	<0.100	0.175	0.238	94.4			NA			1,280	<4.00	NA	6.3
	9/15/2022	NA	94.4	0.538	0.232	2.31	98.7			NA			1,320	<4.00	NA	6.3
	9/22/2022	NA	94.4	0.260 J	0.650	0.481	105			NA			1,320	<4.00	NA	6.3
	9/28/2022	NA	91.2	0.498 J	0.261	<0.0293	92.5			NA			1,280	<4.00	NA	6.3
	10/4/2022	NA	88.9	0.143 J	0.497	0.189	97.0			NA			1,320	<4.00	NA	6.2
	10/14/2022	NA	82.6	0.101 J	<0.0391	0.0760 J	84.6			NA			1,320	<4.00	NA	6.2
	10/19/2022	NA	51.2	<0.100	0.101	<0.0293	48.5			NA			1,290	<4.00	NA	6.5
	10/27/2022	NA	124	0.165 J	0.319	0.871	104			NA			1,340	<4.00	NA	6.3
	11/2/2022	NA	91.1	0.148 J	0.221	0.947	92.9			NA			1,330	<4.00	NA	6.2
	11/9/2022	NA	97.8	0.161 J	0.273	0.366	101			NA			1,430	<4.00	NA	6.4
	11/16/2022	NA	86.0	0.180 J	0.206	0.579	91.4			NA			1,300	<4.00	NA	6.6
	11/30/2022	NA	90.4	0.133 J	0.264	0.168	91.1			NA			1,300	<4.00	NA	6.4
	12/9/2022	NA	78.0	0.158 J	0.217	0.785	82.5			NA			1,290	<4.00	NA	6.4
	12/15/2022	NA	100	0.120 J	0.331	1.64	91.2			NA			1,140	<4.00	NA	6.2
	12/21/2022	NA	94.8	0.212 J	0.252	1.16	99.5			NA			1,270	<4.00	NA	6.3
	12/29/2022	NA	124	0.114 J	0.527	0.338	95.6			NA			1,250	<4.00	NA	6.5
	1/4/2023	NA	92.6	0.126 J	0.318	1.23	88.2			NA			1,140	<4.00	NA	6.4
	1/13/2023	NA	72.6	0.112 J	0.227	0.381	81.1			NA			1,210	<4.00	NA	6.4
	1/19/2023	NA	96.5	0.135 J	0.185	0.320	96.7			NA			1,270	<4.00	NA	6.2
	1/25/2023	NA	83.2	0.133 J	0.128	0.416	87.9			NA			1,110	<4.00	NA	6.5
	2/2/2023	NA	80.8	<0.100	0.273	0.334	84.7			NA			1,180	<4.00	NA	6.2
	2/8/2023	NA	89.2	<0.100	0.180	0.392	92.3			NA			1,300	<4.00	NA	6.3
	2/17/2023	NA	89.9	0.226 J	0.194	0.178	96.2			NA			1,300	<4.00	NA	6.4
	2/22/2023	NA	98.9	0.113 J	0.606	0.162	70.9			NA			1,310	<4.00	NA	6.1
	3/3/2023	NA	130	<0.100	0.450	0.204	95.4			NA			1,200	<4.00	NA	6.2
	3/8/2023	NA	86.9	<0.100	0.139	0.239	94.5			NA			1,230	<4.00	NA	6.3
	3/15/2023	NA	89.8	<0.100	0.190	0.389	95.7			NA			1,190	<4.00	NA	6.2
	3/23/2023	NA	74.9	0.138 J	0.107	0.208	88.5			NA			1,250	<4.00	NA	6.3
	3/29/2023	NA	81.8	<0.100	0.150	0.975	90.9			NA			1,250	<4.00	NA	6.2

NOTES:

SU - standard units

mg/l - milligrams per liter

NE - not established

NA - not analyzed

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

Concentrations highlighted in yellow exceed the NMAC Human Health Standards



TABLE 3 GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY South Hobbs G/SA Unit Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417002								
Sample Designation	Date	(mg/l)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-1	5/26/2020	<0.495	163	<0.943	1.48	<0.910	1.48	22.9
	6/30/2020	<5.00	648	<2.34	<2.34	<2.34	<2.34	21.9
	8/20/2020	<5.00	596	2.35	3.18	<2.26	5.53	23.7
	11/24/2020	<0.495	756	<0.907	<0.838	<0.838	<0.8380	19.1
	12/18/2020	<0.495	432	<0.909	<0.840	<0.840	<0.840	15.8
	12/23/2020	<0.495	553	<0.895	1.81 J	<0.827	1.81 J	15.5
	12/30/2020	<0.495	1,170	<0.917	<0.847	<0.847	<0.847	13.1
	1/6/2021	<0.495	585	<0.897	<0.829	<0.829	<0.829	12.7
	1/12/2021	<0.495	731	<0.891	<0.823	<0.823	<0.823	14.6
	1/20/2021	0.600 J	667	<0.889	<0.821	<0.821	<0.821	17.6
	1/27/2021	0.800 J	668	<0.909	<0.840	<0.840	<0.840	18.0
	2/3/2021	<0.495	699	<0.907	<0.838	<0.838	<0.838	20.6
	2/10/2021	1.20 J	423	1.66 J	<0.828	<0.828	1.66 J	14.1
	2/24/2021	0.600 J	448	<0.884	<0.817	<0.817	<0.817	18.0
	3/4/2021	<0.495	515	3.04	1.03 J	<0.846	4.07	18.8
	3/10/2021	1.20 J	499	<0.878	<0.811	<0.811	<0.811	18.6
	3/17/2021	<0.495	378	<0.886	<0.819	<0.819	<0.819	19.1
	3/25/2021	<0.495	333	17.2	1.00 J	<0.867	18.2	20.2
	3/31/2021	<0.495	526	<0.893	<0.825	<0.825	<0.825	18.4
	4/8/2021	<0.495	364	2.57 J	1.55 J	<0.867	4.12 J	18.9
	4/15/2021	<0.495	418	<0.887	<0.887	1.72 J	1.72 J	20.5
	4/21/2021	<0.495	415	<0.898	2.05 J	<0.867	2.05 J	18.8
	4/28/2021	<0.495	689	<0.890	1.19 J	<0.859	1.19 J	18.9
	5/5/2021	<0.495	647	<0.890	<0.890	<0.859	<0.890	18.8
	5/13/2021	<0.495	259	<0.893	<0.893	<0.862	<0.893	19.0
	5/19/2021	<0.495	679	<0.893	<0.893	<0.862	<0.893	21.5
	5/27/2021	<0.495	973	<0.923	<0.923	<0.891	<0.923	20.6
	6/2/2021	<0.495	619	<0.918	<0.918	<0.886	<0.918	18.1
	6/10/2021	<0.495	385	<0.915	<0.915	<0.883	<0.915	22.0
	6/16/2021	<0.495	323	<0.926	<0.926	<0.894	<0.926	18.2
	6/22/2021	<0.495	250	<0.938	<0.938	<0.905	<0.938	22.1
	6/30/2021	<0.495	324	<0.923	<0.923	<0.891	<0.923	21.0
	7/1/2021	Levey Well Now Running Full Time						
	7/7/2021	<0.495	241	<0.901	<0.901	<0.869	<0.901	18.4
	7/14/2021	<0.495	295	<0.991	<0.957	<0.991	<0.991	19.0
	7/20/2021	<0.495	321	<0.938	<0.938	<0.905	<0.938	19.8
	7/27/2021	<0.495	321	<0.906	<0.906	<0.875	<0.906	22.0
	8/5/2021	<0.495	196	<0.950	<0.950	<0.917	<0.950	21.9
	8/11/2021	<0.495	369	<0.932	<0.932	<0.900	<0.932	19.9
	8/19/2021	<0.495	457	<0.950	<0.950	<0.917	<0.950	20.8
	8/25/2021	<0.495	477	<0.918	<0.918	<0.886	<0.918	20.0
	9/2/2021	<0.495	416	<0.935	<0.935	<0.902	<0.935	20.6
	9/8/2021	<0.495	280	<0.953	<0.953	<0.920	<0.953	21.4
	9/14/2021	<0.495	289	<0.932	0.978 J	<0.900	0.978 J	19.3
	9/21/2021	1.00 J	105	<0.918	<0.918	<0.886	<0.918	18.0
	9/29/2021	<0.495	127	<0.998	<0.998	<0.963	<0.998	18.7
	10/7/2021	<0.495	143	<0.923	<0.923	<0.891	<0.923	18.0
	10/13/2021	<0.495	8.85	<0.950	<0.950	<0.917	<0.950	20.7
	10/21/2021	<0.495	434	<0.918	<0.918	<0.886	<0.918	19.9
	11/5/2021	<0.495	114	<1.03	<1.03	<0.993	<1.03	22.9
	11/11/2021	<0.495	563	<0.923	<0.923	<0.891	<0.923	19.3
	11/18/2021	<0.495	24.9	1.05 J	<0.969	<0.935	1.05 J	19.0
	11/24/2021	<5.00	159	<4.70	<4.70	<4.70	<4.70	19.7
	12/1/2021	<0.495	39.0	<0.935	<0.935	<0.902	<0.935	19.4
	12/8/2021	<0.495	122	<0.929	<0.929	<0.897	<0.929	18.1
	12/16/2021	<0.495	69.3	<0.962	<0.962	<0.929	<0.962	18.0
	12/22/2021	<0.495	49.5	1.34 J	<0.941	<0.908	1.34 J	21.5
	12/29/2021	<0.495	50.2	<0.935	<0.935	<0.902	<0.935	18.1
	1/6/2022	<0.495	67.0	<0.932	<0.932	<0.900	<0.932	18.0
	1/12/2022	<0.495	130	0.960 J	1.06 J	<0.900	2.02 J	21.7
	1/19/2022	<0.495	56.4	<0.912	<0.912	<0.880	<0.912	18.0
	1/26/2022	<0.495	44.7	<0.898	<0.898	<0.867	<0.898	18.8
	2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.						
	2/8/2022	<0.495	95.7	<0.895	<0.895	<0.864	<0.895	20.8
	2/16/2022	<0.495	61.0	<0.877	<0.877	<0.846	<0.877	18.7
	2/25/2022	<0.495	54.2	<0.923	<0.923	<0.891	<0.923	20.0
	3/3/2022	<0.495	90.5	<0.935	<0.935	<0.902	<0.935	18.2
	3/9/2022	<0.495	40.7	<0.874	<0.874	<0.874	<0.874	18.1
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.						
	3/16/2022	<0.495	67.6	<0.959	<0.959	<0.959	<0.959	18.1
	3/24/2022	<0.495	37.5	<0.901	<0.901	<0.869	<0.901	18.9
	3/31/2022	<0.495	43.7	<0.926	<0.926	<0.894	<0.926	19.0
	4/6/2022	<0.495	41.6	<0.926	<0.926	<0.894	<0.926	18.1
	4/13/2022	<0.495	13.0	<0.918	<0.918	<0.886	<0.918	19.0
	4/20/2022	<0.495	72.4	<0.904	<0.904	<0.872	<0.904	18.3
	4/28/2022	<0.495	18.9	<0.890	<0.890	<0.859	<0.890	19.9
	5/5/2022	<0.495	31.8	<0.912	<0.912	<0.880	<0.912	19.5
	5/10/2022	1.20 J	31.5	<0.985	<0.985	<0.950	<0.985	16.7
	5/19/2022	0.600 J	41.5	<0.926	<0.926	<0.894	<0.926	20.3
	5/26/2022	1.00 J	32.2	<0.920	<0.920	<0.888	<0.920	18.0
	6/1/2022	0.800 J	19.0	<0.926	<0.926	<0.894	<0.926	20.5
	6/9/2022	0.600 J	24.6	<0.962	<0.962	<0.929	<0.962	20.3
	6/17/2022	<0.495	21.1	<0.918	<0.918	<0.886	<0.918	18.3
	6/23/2022	0.800 J	32.5	<0.932	<0.932	<0.900	<0.932	18.0
	6/29/2022	1.00 J	33.2	0.954 J	<0.923	<0.891	0.954 J	15.8
	7/7/2022	0.600 J	22.2	<0.947	<0.947	<0.914	<0.947	23.1
	7/13/2022	<0.495	31.9	<0.950	<0.950	<0.917	<0.950	20.6
	7/20/2022	<0.495	31.4	<0.959	<0.959	<0.926	<0.959	20.0
	7/27/2022	<0.495	10.6	<0.904	<0.904	<0.872	<0.904	17.6
	8/4/2022	0.800 J	31.9	<0.906	<0.906	<0.875	<0.906	19.2
	8/10/2022	1.00 J	35.0	<0.929	<0.929	<0.897	<0.929	19.8
	8/18/2022	<0.495	52.4	<1.04	<1.04	<1.00	<1.04	20.7
	8/24/2022	1.40 J	34.4	<4.78	<4.78	<4.78	<4.78	18.2
	8/31/2022	1.20 J	22.0	<0.932	<0.932	<0.900	<0.932	19.9
	9/15/2022	0.800 J	55.4	<0.988	<0.988	<0.954	<0.988	18.6



TABLE 3 GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY South Hobbs G/SA Unit Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417002								
Sample Designation	Date	(mg/l)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-1	9/22/2022	<0.495	28.0	<0.944	<0.944	<0.911	<0.944	21.0
	9/28/2022	1.20 J	28.5	<0.956	<0.956	<0.923	<0.956	17.9
	10/4/2022	0.800 J	34.2	<0.895	<0.895	<0.864	<0.895	17.8
	10/14/2022	1.20 J	26.6	<0.935	<0.935	<0.902	<0.935	18.7
	10/19/2022	<0.495	22.4	<0.981	<0.981	<0.947	<0.981	18.4
	10/27/2022	<0.495	22.0	<1.00	<1.00	<0.968	<1.00	25.0
	11/2/2022	<0.495	31.7	<0.972	<0.972	<0.938	<0.972	25.0
	11/9/2022	<0.495	33.0	<0.972	<0.972	<0.938	<0.972	21.4
	11/16/2022	<0.495	28.2	<1.00	<1.00	<0.970	<1.00	18.0
	11/30/2022	<0.495	30.0	<0.915	<0.915	<0.883	<0.915	18.5
	12/9/2022	<0.495	19.5	<1.00	<1.00	<0.970	<1.00	17.1
	12/15/2022	<0.495	43.9	<0.918	<0.918	<0.886	<0.918	15.7
	12/21/2022	<0.495	37.8	<0.890	<0.890	<0.859	<0.890	15.8
	12/29/2022	<0.495	64.9	<0.938	<0.938	<0.905	<0.938	16.7
	1/4/2023	<0.495	28.1	<0.923	<0.923	<0.891	<0.923	15.9
	1/13/2023	<0.495	45.0	<0.935	<0.935	<0.902	<0.935	13.8
	1/19/2023	0.800 J	53.9	<0.918	<0.918	<0.886	<0.918	16.0
	1/25/2023	<0.495	28.9	<1.00	<1.00	<0.966	<1.00	19.5
	2/2/2023	<0.495	52.2	<0.978	<0.978	<0.944	<0.978	18.6
	2/8/2023	<0.495	45.3	<0.969	<0.969	<0.935	<0.969	16.9
	2/17/2023	<0.495	27.2	<0.938	<0.938	<0.905	<0.938	20.0
	2/22/2023	<0.495	66.3	<0.906	<0.906	<0.875	<0.906	18.7
	3/3/2023	<0.495	39.0	<0.893	<0.893	<0.862	<0.893	17.5
	3/8/2023	<0.495	79.3	<1.01	<1.01	<0.976	<1.01	18.6
	3/15/2023	<0.495	65.4	1.34 J	<1.01	<0.976	1.34 J	14.1
	3/23/2023	<0.495	63.2	<0.938	<0.938	<0.905	<0.938	18.2
	3/29/2023	<0.495	75.1	<0.947	<0.947	<0.914	<0.947	15.9



TABLE 3 GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY South Hobbs G/SA Unit Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417002								
Sample Designation	Date	(mg/l)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-2	5/26/2020	<0.495	923	2.10	1.07 J	<0.900	6.16	23.1
	6/30/2020	<5.00	1,290	<2.32	<2.32	<2.32	<2.32	22.1
	8/20/2020	<5.00	1,150	2.75	3.29	<2.26	6.02	23.0
	11/24/2020	<0.495	1,300	1.73 J	2.17 J	<0.835	3.900	19.1
	12/18/2020	0.600 J	958	1.34 J	0.915 J	<0.824	2.26 J	15.1
	12/23/2020	<0.495	1,090	1.61 J	1.12 J	<0.837	2.73	15.6
	12/30/2020	<0.495	1,090	<0.893	<0.825	<0.825	<0.825	12.1
	1/6/2021	<0.495	1,240	1.99 J	<0.824	<0.824	1.99 J	13.1
	1/12/2021	11.2	1,450	1.64 J	<0.833	<0.833	1.64 J	13.9
	1/20/2021	9.60	1,390	<0.907	<0.838	<0.838	<0.838	18.2
	1/27/2021	15.0	1,600	1.31 J	<0.834	<0.834	1.31 J	13.4
	2/3/2021	<0.495	1,030	0.955 J	1.15 J	<0.813	2.11 J	20.9
	2/10/2021	<0.495	915	2.08	<0.746	<0.746	2.08	11.5
	2/24/2021	<0.495	793	1.01 J	<0.832	<0.832	1.01 J	19.4
	3/4/2021	<0.495	1,030	1.74 J	<0.819	<0.819	1.74 J	18.2
	3/10/2021	<0.495	1,010	<0.893	<0.825	<0.825	<0.825	18.5
	3/17/2021	<0.495	970	2.33	<0.835	<0.835	2.33	19.5
	3/25/2021	<0.495	653	1.50 J	1.16 J	<0.857	2.66 J	20.2
	3/31/2021	<0.495	1,110	<0.941	<0.941	<0.908	<0.941	18.3
	4/8/2021	<0.495	1,010	2.30 J	1.01 J	<0.875	3.31 J	18.9
	4/15/2021	<0.495	2,200	2.49 J	0.999 J	1.70 J	5.19	20.1
	4/21/2021	<0.495	1,230	1.01 J	0.913 J	<0.856	1.92 J	18.9
	4/28/2021	<0.495	1,100	2.54 J	1.19 J	<0.872	3.73 J	19.0
	5/5/2021	<0.495	1,350	2.09 J	<0.890	<0.859	2.09 J	18.8
	5/13/2021	<0.495	1,320	1.18 J	<0.906	<0.875	1.18 J	19.6
	5/19/2021	<0.495	1,730	1.46 J	<0.901	<0.869	1.46 J	19.8
	5/27/2021	<0.495	798	<0.920	<0.920	<0.888	<0.920	20.8
	6/2/2021	<0.495	1,580	2.01 J	<0.895	<0.864	2.01 J	18.1
	6/10/2021	<0.495	2,010	1.46 J	<0.882	<0.851	1.46 J	22.0
	6/16/2021	<0.495	810	0.963 J	<0.826	<0.797	0.963 J	18.0
	6/22/2021	<0.495	795	1.18 J	<0.947	<0.914	1.18 J	22.2
	6/30/2021	<0.495	975	1.21 J	<0.893	<0.862	1.21 J	20.3
	7/1/2021	Levey Well Now Running Full Time						
	7/7/2021	<0.495	889	1.62 J	<0.906	<0.875	1.62 J	18.3
	7/14/2021	<0.495	1,080	<0.965	<0.965	<0.932	<0.965	19.3
	7/20/2021	<0.495	1,170	1.16 J	<0.898	<0.867	1.16 J	19.8
	7/27/2021	<0.495	950	1.03 J	<0.906	<0.875	1.03 J	22.3
	8/5/2021	<0.495	778	<0.909	<0.909	<0.877	<0.909	22.1
	8/11/2021	<0.495	1,040	1.46 J	<0.887	<0.856	1.46 J	19.7
	8/19/2021	<0.495	2,010	1.93 J	<0.959	<0.926	1.93 J	20.7
	8/25/2021	<0.495	1,400	1.01 J	<0.932	<0.900	1.01 J	19.2
	9/2/2021	<0.495	1,830	3.03 J	2.11 J	<0.920	5.14	21.4
	9/8/2021	<0.495	1,570	1.70 J	<0.932	<0.900	1.70 J	20.5
	9/14/2021	<0.495	1,240	1.93 J	1.01 J	<0.917	2.94 J	19.4
	9/21/2021	<0.495	1,260	1.33 J	<0.941	<0.908	1.33 J	18.0
	9/29/2021	<0.495	1,040	1.60 J	<1.19	<1.15	1.60 J	18.5
	10/7/2021	<0.495	1,020	1.45 J	<0.988	<0.954	1.45 J	18.0
	10/13/2021	<0.495	834	1.56 J	<0.935	<0.902	1.56 J	20.6
	10/21/2021	<0.495	2,420	1.64 J	<0.918	<0.886	1.64 J	19.8
	11/5/2021	<0.495	628	1.39 J	<0.965	<0.932	1.39 J	22.8
	11/11/2021	<0.495	4,500	2.27 J	<0.985	<0.950	2.27 J	18.5
	11/18/2021	<0.495	574	2.56 J	<0.923	<0.891	2.56 J	19.5
	11/24/2021	<5.00	1,500	2.34 J	<4.59	<4.59	2.34 J	19.1
	12/1/2021	<0.495	313	1.69 J	<0.912	<0.880	1.69 J	19.2
	12/8/2021	<0.495	1,260	1.86 J	<0.932	<0.900	1.86 J	18.9
	12/16/2021	<0.495	957	1.15 J	<0.947	<0.914	1.15 J	18.0
	12/22/2021	<0.495	1,020	1.95 J	<0.944	<0.911	1.95 J	21.6
	12/29/2021	<0.495	1,250	1.15 J	<0.935	<0.902	1.15 J	18.0
	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
	8/4/2022	<0.495	1,570	1.31 J	<0.904	<0.872	1.31 J	19.2
	8/10/2022	<0.495	1,260	1.17 J	<0.932	<0.900	1.17 J	19.3
	8/18/2022	<0.495	1,280	1.43 J	7.62	<0.897	9.05	21.3
	8/24/2022	<5.00	1,300	1.18 J	<4.63	<4.63	1.18 J	18.0
	8/31/2022	1.00 J	1,290	1.08 J	<0.950	<0.917	1.08 J	20.0
	9/15/2022	<0.495	1,320	1.83 J	<1.07	<1.04	1.83 J	18.9
	9/22/2022	<0.495	1,320	1.56 J	<1.05	<1.01	1.56 J	20.9
	9/28/2022	<0.495	1,280	1.06 J	<1.05	<1.01	1.06 J	18.6
	10/4/2022	<0.495	1,670	1.11 J	<0.904	<0.872	1.11 J	17.6



TABLE 3 GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY South Hobbs G/SA Unit Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417002								
Sample Designation	Date	(mg/l)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-2	10/14/2022	<0.989	1,670	1.12 J	<0.915	<0.883	1.12 J	18.1
	10/19/2022	<0.495	814	1.46 J	<0.877	<0.846	1.46 J	18.3
	10/27/2022	<0.495	1,350	<0.988	<0.988	<0.954	<0.988	25.0
	11/2/2022	<0.495	1,680	1.82 J	<0.978	<0.944	1.82 J	25.0
	11/9/2022	<4.95	1,220	1.14 J	<0.978	<0.944	1.14 J	21.2
	11/16/2022	<0.495	653	2.20 J	<0.909	<0.877	2.20 J	18.0
	11/30/2022	<0.495	1,030	<0.959	<0.959	<0.926	<0.959	18.7
	12/9/2022	<0.495	1,030	1.38 J	<0.969	<0.935	1.38 J	17.3
	12/15/2022	<0.495	1,440	1.71 J	<0.988	<0.954	1.71 J	15.3
	12/21/2022	<0.495	1,280	1.11 J	<0.904	<0.872	1.11 J	16.3
	12/29/2022	<0.495	789	<0.923	<0.923	<0.891	<0.923	17.3
	1/4/2023	<0.495	910	1.66 J	<0.988	<0.954	1.66 J	16.8
	1/13/2023	<0.495	966	1.43 J	<0.941	<0.908	1.43 J	13.6
	1/19/2023	<0.495	1,610	1.06 J	<0.929	<0.897	1.06 J	16.3
	1/25/2023	<0.495	704	<0.923	<0.923	<0.891	<0.923	19.3
	2/2/2023	<0.495	1,480	1.01 J	<0.959	<0.926	1.01 J	18.7
	2/8/2023	<0.495	1,300	0.984 J	<0.898	<0.867	0.984 J	16.7
	2/17/2023	<0.495	1,040	1.24 J	<0.953	<0.920	1.24 J	20.0
	2/22/2023	<0.495	2,070	1.97 J	<0.926	<0.894	1.97 J	18.7
	3/3/2023	<0.495	1,520	2.46 J	<0.991	<0.957	2.46 J	18.1
	3/8/2023	<0.495	1,560	1.18 J	<1.01	<0.976	1.18 J	19.1
	3/15/2023	<0.495	1,500	<1.01	<1.01	<0.976	<1.01	14.2
	3/23/2023	<0.495	1,260	<0.920	<0.920	<0.888	<0.920	17.3
	3/29/2023	<0.495	1,580	<0.920	<0.929	<0.897	<0.929	16.6

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

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

Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/25/2021	0823	229	<6.39	<7.76	9.52	<4.13	<10.3	575	<8.10	<7.93	324	<8.67	<9.82	<11.2	<17.0	299	980	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	22.2	<9.82	<9.82	<7.04	<17.3	<8.67	17,500
	1/25/2021	1213	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	2.01	<0.810	<0.793	4.98	<0.867	<0.982	<1.12	<1.70	1.44	3.20	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.36	1.14	1.29	<0.704	<1.73	<0.867	<826
	1/28/2021	1316	14,800	<0.639	2.96	246	22.5	42.5	1,770	<0.810	<0.793	2,410	53.8	298	<1.12	2.03	1,220	2,890	150	<0.694	101	2,340	53.2	<0.819	<33.0	438	<0.851	72.6	<0.590	95.7	<1.09	<1.07	445	375	<0.704	246	147	61,100
	2/10/2021	1300	1,140	<12.8	<15.5	181	<8.26	<20.6	10,800	<16.2	<15.9	<23.8	44.2	426	<22.5	<19.8	4,040	14,000	92.4	<13.9	<102	79.0	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	66.3	<21.8	<21.4	334	584	<14.1	361	218	315,000
	2/24/2021	1045	<2.97	<0.639	<0.776	161	<0.413	<1.03	4,510	<0.810	9.83	<1.19	88.4	491	<1.12	<0.989	2,200	5,610	249	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	5.47	<0.590	101	<1.09	1.14	218	305	<0.704	633	388	114,000
	3/4/2021	1402	375	<3.19	<3.88	67.9	<2.07	<5.15	2,620	<4.05	<3.96	88.6	56.4	<4.91	<5.62	<4.95	847	4,690	176	<3.47	<25.6	72.0	<25.6	<4.09	22.8	<15.4	<4.25	<6.79	<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	<1.41	577	195	175,000
	5/27/2021	1245	380	0.664	<0.776	<0.622	1.57	<1.03	1.14	<0.810	<0.793	6,130	3.68	7.07	1.51	2.64	9.98	157	<0.983	13.5	13.5	115	263	<0.819	<3.30	976	301	<1.36	149	86.3	<1.09	<1.07	15.4	4.37	<0.704	12.1	3.70	17,900
	6/2/2021	1220	1,280	<12.8	<15.5	<12.4	<8.26	<20.6	5,480	<16.2	<15.9	317	78.5	241	<22.5	<19.8	1,500	6,840	162	<13.9	<102	188	<102	<16.4	<66.0	125	<17.0	<27.2	<11.8	47.1	<21.8	<21.4	555	356	<14.1	542	174	179,000
	6/10/2021	1150	3,470	<12.8	<15.5	106	<8.26	<20.6	2,260	<16.2	<15.9	722	21.6	169	<22.5	<19.8	507	3,020	48.1	<13.9	<102	295	<102	<16.4	<66.0	234	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	89.3	73.1	<14.1	127	49.4	95,800
	6/16/2021	1217	2,160	<0.639	<0.776	43.0	<0.413	<1.03	806	<0.810	<0.793	609	17.9	145	<1.12	<0.989	308	1,670	32.2	<0.694	35.6	251	<5.12	<0.819	<3.30	201	<0.851	<1.36	<									

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

Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	12/20/2021	0929	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	379,000	<8,100	<7,930	50,300	<8,670	<9,820	<11,200	<9,890	532,000	3,380,000	<9,830	<6,940	<51,100	<36,900	<51,200	<8,190	<33,000	196,000	<8,510	<13,600	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	14,000,000
		0953	Initiate Vacuum Recovery Event																																			
		1129	1,190	<31.9	<38.8	<31.1	<20.7	<51.5	10,400	<40.5	<39.6	581	92.3	<49.1	<56.2	<49.5	20,200	80,400	<49.2	<34.7	<256	286	<256	<40.9	<165	3,860	<42.5	<67.9	<29.5	122	<54.4	<53.6	113	99.6	<35.2	132	55.9	392,000
		1145	Vacuum Recovery Event Terminated																																			
		1305	727	<12.8	<15.5	<12.4	<8.26	<20.6	3,930	<16.2	<15.9	<47.1	54.2	47.6	<22.5	<19.8	2,520	5,180	25.6	<13.9	<102	122	<102	<16.4	<66.0	676	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	129	103	<14.1	85.8	40.8	188,000
	12/22/2021	1130	848	<12.8	<15.5	<12.4	<8.26	<20.6	<13.8	<16.2	<15.9	<47.1	41.9	147	<22.5	<19.8	7,030	42,000	39.7	<13.9	<102	<73.7	<102	<16.4	<66.0	649	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	152	92.3	<14.1	111	58.5	247,000
	12/29/2021	1215	<297	<6.39	<77.6	<62.2	<41.3	<10.3	503	<8.10	<79.3	1,490	21.9	44.1	<112	<98.9	630	5,780	37.2	<69.4	<51.1	<369	<51.2	<8.19	<33.0	1,110	<8.51	<13.6	<59.0	<18.8	<109	<10.7	112	63.3	<70.4	75.4	31.6	<8,260
	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																																			
		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
		1/6/2022	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
	1/12/2022	1352	31,400	<12.8	<15.5	<12.4	<8.26	<20.6	164,000	<16.2	<15.9	<47.1	115	491	<22.5	<19.8	342,000	1,680,000	98.8	<13.9	<102	5,570	<102	<16.4	85.9	81,900	<17.0	<27.2	<11.8	263	<21.8	<21.4	400	433	<14.1	341	156	6,820,000
	1/17/2022	0852	14,900	<639	<776	<622	<413	<1,030	119,000	<810	<793	<2,360	<867	<982	<1,120	<989	160,000	1,440,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	25,800	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	6,110,000
		0853	Initiate Vacuum Recovery Event																																			
		0919	227	<0.639	<0.776	<0.622	<0.413	<1.03	3,650	<0.810	<0.793	19.8	2.15	1.70	1.52	1.84	6,260	19,100	1.22	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	202	<0.851	<1.36	<0.590	8.32	<1.09	<1.07	2.84	2.87	<0.704	5.20	2.15	132,000
		1004	90.3	<0.639	<0.776	<0.622	1.30	<1.03	747	<0.810	<0.793	56.2	2.58	4.13	1.40	2.60	1,610	4,300	2.46	<0.694	<5.11	16.4	<5.12	<0.819	<3.30	114	<0.851	2.69	<0.590	15.6	<1.09	<1.07	11.5	8.44	<0.704	7.50	3.13	31,600
		1021	Vacuum Recovery Event Terminated																																			
		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																																			
		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
	2/8/2022	1200	88.6	<0.639	<0.776	<0.622	<0.413	<1.03	1,310	<0.810	<0.793	<2.36	27.2	<0.982	<1.12	<0.989	2,640	13,700	14.5	<0.694	<5.11	15.5	<5.12	<0.819	3.64	76.2	<0.851	3.38	<0.590	12.3	<1.09	<1.07	43.8	46.5	<0.704	91.9	39.4	83,000
	2/16/2022	1224	215	<12.8	<15.5	<12.4	<8.26	<20.6	37,500	<16.2	<15.9	<47.1	<17.3	22.1	<22.5	<19.8	7,280	62,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	156	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	23.1	19.6	<14.1	38.4	<17.3	272,000
	2/23/2022	1021	1,950	<0.639	<0.776	<0.622	<0.413	<1.03	30,900	<0.810	<0.793	120	3.00	<0.982	<1.12	<0.989	5,360	176,000	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	73.8	<1.09	<1.07	1.84	1.47	<0.704	3.42	1.12	261,000
		1022	Initiate Vacuum Recovery Event																																			
		1043	104	101	<0.776	<0.622	1.44	<1.03	3,280	<0.810	<0.793	62.4	4.60	1.30	1.64	2.42	1,040	2,500	<0.983	<0.694	<5.11	34.2	<5.12	<0.819	<3.30	14.2	<0.851	<1.36	<0.590	57.6	<1.09	<1.07	3.47	3.29	<0.704	6.89	1	

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

Sample Designation	Date	Time	(ug/m3)																																				
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction	
Levey Well	4/11/2022	0924	<238	<51.1	<62.1	<49.8	<33.0	<82.5	39,600	<64.8	<63.4	1,510	<69.4	<78.5	<89.9	<79.1	37,400	483,000	<78.7	<55.6	<409	<295	<409	<65.5	<264	6,860	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	1,460,000	
		0925	Initiate Vacuum Recovery Event																																				
		0949	52.3	<0.639	<0.776	1.09	<0.413	<1.03	3,190	<0.810	<0.793	7.99	2.12	<0.982	1.16	1.41	6,220	2,430	1.10	<0.694	<5.11	37.7	<5.12	<0.819	<3.30	27.5	<0.851	<1.36	<0.590	5.61	<1.09	<1.07	5.64	6.43	<0.704	4.47	2.90	140,000	
		1030	41.1	<0.639	<0.776	<0.622	<0.413	<1.03	188	<0.810	<0.793	23.9	1.35	<0.982	1.40	1.73	366	1,280	<0.983	<0.694	<5.11	14.3	<5.12	<0.819	<3.30	24.5	<0.851	<1.36	<0.590	16.5	<1.09	<1.07	3.30	3.64	<0.704	3.52	1.94	9,010	
		1045	Vacuum Recovery Event Terminated																																				
	4/20/2022	1155	183	<0.639	2.01	7.03	<0.413	<1.03	706	<0.810	<0.793	14.6	1.48	<0.982	1.24	1.46	928	10,500	1.03	<0.694	<5.11	42.5	5.32	<0.819	<3.30	139	<0.851	<1.36	<0.590	18.7	<1.09	<1.07	5.10	3.73	<0.704	4.51	1.99	31,300	
		1157	<238	<51.1	<62.1	<49.8	<33.0	<82.5	16,000	<64.8	<63.4	956	<69.4	<78.5	<89.9	<79.1	27,000	144,000	<78.7	<55.6	<409	<295	<409	2,400	<264	5,850	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	93.3	<56.3	<139	<69.4	735,000	
		4/25/2022	0805	<1,190	<256	<311	<249	<165	<412	465,000	<324	<317	3,680	<347	<393	<450	<396	638,000	5,390,000	<393	<278	<2,040	12,300	<2,050	<328	<1,320	23,300	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	7,720,000
			0810	Initiate Vacuum Recovery Event																																			
			0833	179	<12.8	<15.5	<12.4	<8.26	<20.6	2,680	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	6,180	15,800	<19.7	<13.9	<102	161	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	23.9	<14.1	<34.7	<17.3	138,000
	0912		32.6	<1.28	<1.55	<1.24	<0.826	<2.06	413	<1.62	<1.59	8.48	2.79	<1.96	<2.25	2.54	1,470	3,400	<1.97	<1.39	<10.2	31.6	<10.2	<1.64	<6.60	11.5	<1.70	<2.72	<1.18	<3.77	<2.18	<2.14	12.2	23.1	<1.41	5.38	4.38	22,600	
	0928		Vacuum Recovery Event Terminated																																				
	4/28/2022	1033	<1,190	1,660	<311	<249	<165	<412	23,800	<324	<317	2,960	4,860	3,510	<450	<396	42,900	103,000	860	<278	<2,040	<1,470	<2,050	<328	<1,320	16,300	<340	<543	<236	<753	<435	<429	2,730	1,110	<282	7,370	2,750	1,060,000	
		1152	544	<0.639	<0.776	<0.622	<0.413	<1.03	112	<0.810	<0.793	100	23.5	<0.982	<1.12	<0.989	148	1,100	7.57	<0.694	<5.11	25.7	8.31	<0.819	<3.30	106	<0.851	<1.36	<0.590	113	<1.09	<1.07	26.6	17.2	<0.704	47.3	20.8	22,600	
		5/5/2022	1454	<1,190	<256	<311	<249	<165	<412	30,500	<324	<317	<943	<347	<393	<450	<396	47,000	673,000	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	8,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	1,430,000
		5/9/2022	0958	<1,190	<256	<311	<249	<165	<412	49,200	<324	<317	2,660	<347	<393	<450	<396	66,300	850,000	<393	<278	<2,040	3,480	<2,050	<328	<1,320	26,100	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,380,000
			1000	Initiate Vacuum Recovery Event																																			
	1020		333	<0.639	<0.776	1.34	1.81	<1.03	995	<0.810	<0.793	42.4	4.07	17.1	<1.12	1.20	2,530	8,780	<0.983	<0.694	<5.11	203	<5.12	<0.819	5.09	76.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.9	20.8	<0.704	7.02	5.94	54,100	
	1057		90.8	<0.639	<0.776	<0.622	2.85	<1.03	159	<0.810	<0.793	13.3	<0.867	1.08	1.31	1.81	385	1,040	<0.983	<0.694	<5.11	33.6	<5.12	<0.819	<3.30	13.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	1.54	2.56	<0.704	<1.73	1.03	8,220	
	1105		Vacuum Recovery Event Terminated																																				
	5/19/2022	1218	130	1.41	6.83	31.0	15.5	<1.03	3,090	<0.810	<0.793	32.2	3.73	7.02	<1.12	<0.989	6,260	4,830	1.60	<0.694	<5.11	193	<5.12	<0.819	<3.30	403	<0.851	<1.36	<0.590	6.37	<1.09	<1.07	8.59	15.2	<0.704	5.64	5.03	124,000	
		1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	104,000	<64.8	<63.4	1,070	<69.4	<78.5	<89.9	<79.1	183,000	1,340,000	<78.7	105	<409	<295	<409	<65.5	<264	4,130	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	4,750,000	
		1015	12,100	<51.1	<62.1	<49.8	<33.0	<82.5	558,000	<96.2	<63.4	<189	<69.4	633	<89.9	<79.1	912,000	8,140,000	<78.7	<55.6	<409	14,100	<409	<65.5	<264	7,740	<68.1	<109	<47.2	<151	<87.0	<85.7	376	854	<56.3	<139	<69.4	27,600,000	
		5/23/2022	1017	Initiate Vacuum Recovery Event																																			
			1100	<238	<51.1	<62.1	<49.8	<33.0	<82.5	13,400	<64.8	<63.4	549	<69.4	158	<89.9	<79.1	70,800	263,000	<78.7	<55.6	<409	1,090	<409	<65.5	<264	7,450	<68.1	<109	<47.2	<151	<87.0	<85.7	86.9	215	<56.3	<139	<69.4	702,000
	1200		927	<12.8	<15.5	<12.4	<10.6	<20.6	6,410	<16.2	<15.9	196	<17.3	185	<22.5	<19.8	15,200	50,400	<19.7	<13.9	<102	590	<102	<16.4	<66.0	263	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	121	271	<14.1	<34.7	<17.3	450,000	
	1215		Vacuum Recovery Event Terminated																																				
	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</											

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																						
Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	8/10/2022	1353	<238	<51.1	<62.1	58.5	<33.0	<82.5	65,100	<64.8	69.4	1,150	<69.4	<78.5	<89.9	<79.1	121,000	1,200,000	<78.7	60.1	<409	2,920	<409	<65.5	<264	17,300	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	1,660,000
	8/15/2022	0953	<594	<128	<155	280	<82.6	<206	544,000	<162	<159	3,150	<173	<196	<225	<198	924,000	6,870,000	<197	<139	<1,020	<737	<1,020	1,430	<660	<615	<170	<272	<118	<377	<218	<214	<196	281	<141	<347	<173	22,100,000
		1150	Initiate Vacuum Recovery Event																																			
		1258	416	<0.639	<0.776	2.04	<0.413	<1.03	1,750	<0.810	<0.793	31.1	<0.867	<0.982	<1.12	1.52	3,170	10,500	<0.983	<0.694	<5.11	181	<5.12	<0.819	<3.30	42.3	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	9.87	21.1	<0.704	9.58	<0.867	88,000
		1405	611	<3.19	<3.88	<3.11	<2.07	<5.15	1,630	<4.05	<3.96	46.2	<4.34	<4.91	<5.62	<4.95	1,390	5,540	<4.92	<3.47	<25.6	226	<25.6	<4.09	<16.5	88.7	<4.25	<6.79	<2.95	<9.42	<5.44	<5.36	11.2	20.9	<3.52	14.2	<4.34	79,300
		1405	Vacuum Recovery Event Terminated																																			
		1513	3,800	<63.9	<77.6	<62.2	<41.3	<103	9,260	<81.0	<79.3	2,680	<86.7	<98.2	<112	<98.9	19,100	75,800	<98.3	<69.4	<511	1,750	<512	<81.9	<330	42,500	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	504,000
	8/18/2022	1231	<238	<51.1	<62.1	246	<33.0	<82.5	146,000	<64.8	<63.4	769	<69.4	<78.5	<89.9	<79.1	295,000	1,370,000	<78.7	63.9	<409	6,250	<409	<65.5	<264	15,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	148	<56.3	<139	95.4	7,520,000
	8/24/2022	1147	<297	<63.9	<77.6	<62.2	<41.3	<103	585,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	1,050,000	8,950,000	<98.3	<69.4	<511	13,900	<512	<81.9	<330	13,500	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	40,800,000
	8/31/2022	1247	132,000	<256	<311	<249	<165	<412	71,300	<324	<317	1,430	<347	<393	<450	<396	112,000	959,000	<393	<278	<2,040	3,660	5,530	<328	<1,320	16,500	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,480,000
	9/8/2022	1247	57,500	<1,280	<1,550	<1,240	<826	<2,060	403,000	<1,620	<1,590	5,640	<1,730	<1,960	<2,250	<1,980	646,000	6,030,000	<1,970	<1,390	<10,200	46,600	<10,200	<1,640	<6,600	30,200	<1,700	<2,720	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	49,700	<3,470	<1,730	19,800,000
	9/15/2022	1342	<149	<31.9	<38.8	47.0	<20.7	<51.5	29,100	<40.5	<39.6	1,330	<43.4	<49.1	<56.2	<49.5	59,700	353,000	<49.2	77.8	<256	1,350	<256	<40.9	<165	6,070	<42.5	80.1	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	830,000
	9/22/2022	1337	151,000	<2,560	<3,110	<2,490	<1,650	<4,120	554,000	<3,240	<3,170	288,000	3,590	<3,930	<4,500	<3,960	573,000	35,200,000	<3,930	<2,780	<20,400	57,200	<20,500	7,700	<13,200	6,930,000	4,110	33,800	<2,360	17,100	<4,350	<4,290	6,090	<3,930	<2,820	14,000	6,680	27,700,000
	9/26/2022	1046	39,900	<639	<776	<622	<413	<1,030	641,000	<810	<793	5,710	<867	<982	<1,120	<989	1,060,000	9,450,000	<983	<694	<5,110	20,100	<5,120	<819	<3,300	38,100	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	19,600,000
		1255	Initiate Vacuum Recovery Event																																			
		1403	337	<12.8	<15.5	<12.4	<8.26	<20.6	4,170	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	4,830	33,700	<19.7	<13.9	<102	292	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	189,000
		1512	116	<12.8	<15.5	<12.4	<8.26	<20.6	830	<16.2	<15.9	68.1	<17.3	<19.6	<22.5	<19.8	986	4,120	<19.7	<13.9	<102	104	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	39,100
		1512	Vacuum Recovery Event Terminated																																			
		1609	297	<12.8	<15.5	<12.4	<8.26	<20.6	2,100	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	2,380	12,700	<19.7	<13.9	<102	330	<102	<16.4	<66.0	109	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	23.7	<14.1	<34.7	<17.3	88,400
	9/28/2022	1215	14,200	<63.9	<77.6	136	<41.3	<103	118,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	241,000	1,110,000	<98.3	<69.4	<511	6,840	<512	<81.9	<330	6,660	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,790,000
	10/4/2022	1327	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	499,000	<8,100	<7,930	766,000	<8,670	<9,820	<11,200	<9,890	908,000	6,490,000	<9,830	<6,940	<51,100	66,900	<51,200	188,000	<33,000	3,440,000	<8,510	27,500	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	32,000,000
	10/10/2022	1226	15,900	<128	<155	128	<82.6	<206	413,000	<162	<159	2,070	<173	<196	<225	<198	658,000	7,760,000	<197	<139	<1,020	11,900	<1,020	<164	<660	9,510	<170	<272	<118	<377	<218	1,390	<196	206	<141	<347	<173	24,600,000
		1230	Initiate Vacuum Recovery Event																																			
		1326	71.1	1.52	<0.776	0.741	9.21	<1.03	1,400	<0.810	<0.793	14.8	<0.867	3.48	<1.12	1.36	3,850	14,900	<0.983	0.913	<5.11	109	<5.12	<0.819	<3.30	8.50	<0.851	<1.36	<0.590	3.08	<1.09	<1.07	5.79	8.05	<0.704	4.94	2.65	124,000
		1438	94.8	0.923	<0.776	0.672	2.58	<1.03	1,280	<0.810	<0.793	16.3	<0.867	2.65	<1.12	1.63	3,040	13,400	<0.983	0.934	<5.11	92.0	<5.12	<0.819	<3.30	120	<0.851	<1.36	<0.590	1.96	<1.09	<1.07	2.68	6.43	<0.704	<0.867	1.82	104,000
		1438	Vacuum Recovery Event Terminated																																			
		1538	<2.97	4.12	<0.776	15.5	16.6	<1.03	14,500	<0.810	<0.793	120	<0.867	23.3	<1.12	<0.989	34,700	122,000	<0.983	<0.694	<5.11	263	<5.12	<0.819	<3.30	49.2	<0.851	<1.36	<0.590	9.15	<1.09	<1.07	19.6	56.0	<0.704	12.7	17.6	698,000
	10/14/2022	1136	21,900	<128	<155	181	<82.6	<206	121,000	<162	<159	2,000	<173	<196	<225	<198	193,000	2,850,000	<197	<139	<1,020	8,880	<1,020	<164	<660	6,490	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	3,990,000
	10/19/2022	1350	10,600	<63.9	<77.6	<62.2	<41.3	<103	3																													

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

Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	12/29/2022	1320	19,000	<63.9	<77.6	<62.2	<41.3	<103	93,300	<81.0	<79.3	6,280	<86.7	<98.2	<112	<98.9	181,000	1,310,000	<98.3	<69.4	<511	10,200	<512	<81.9	<330	11,000	<85.1	<136	<59.0	304	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	9,750,000
	1/4/2023	1218	<297	<63.9	<77.6	124	<41.3	<103	26,500	<81.0	<79.3	2,750	<86.7	<98.2	<112	<98.9	38,900	765,000	<98.3	76.4	<511	4,250	<512	<81.9	<330	4,820	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	1,170,000
	1/9/2023	1110	<2,970	<63.9	<776	<622	<413	<103	82,700	<81.1	<793	9,820	<86.7	<98.2	<1,120	<989	106,000	1,320,000	<98.3	<694	<511	<3,690	<512	<81.9	<330	53,800	<85.1	<136	<590	<188	<1,090	<107	<98.2	101	<704	<173	<86.7	1,720,000
		1400	Initiate Vacuum Recovery Event																																			
		1507	<297	<63.9	<77.6	<62.2	<41.3	<103	263	<81.0	<79.3	2,470	<86.7	<98.2	<112	<98.9	638	2,530	<98.3	77.8	<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	<82,600
		1608	<297	<63.9	<77.6	<62.2	<41.3	<103	174	<81.0	<79.3	2,620	<86.7	<98.2	<112	<98.9	353	2,670	<98.3	74.7	<511	<369	<512	<81.9	<330	7,940	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1608	Vacuum Recovery Event Terminated																																			
		1706	<297	<63.9	<77.6	<62.2	64.6	<103	2,040	<81.0	<79.3	2,750	<86.7	<98.2	<112	<98.9	3,750	16,000	<98.3	79.2	<511	<369	<512	<81.9	<330	6,830	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	135,000
	1/13/2023	1217	9,510	<63.9	<77.6	95.6	<41.3	<103	43,400	<81.0	<79.3	4,880	<86.7	<98.2	<112	<98.9	<81.8	241,000	<98.3	<69.4	<511	3,270	<512	<81.9	<330	13,300	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	1,510,000
	1/19/2023	1154	35,200	492	<77.6	321	<41.3	<103	630,000	<81.0	<79.3	6,670	120	<98.2	<112	<98.9	72,400	705,000	<98.3	1,790	<511	2,840	<512	<81.9	<330	11,800	<85.1	162	<59.0	1,210	<109	<107	<98.2	<98.2	<70.4	252	<86.7	5,450,000
	1/23/2023	1111	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	486,000	<8,100	<7,930	1,260,000	<8,670	<9,820	<11,200	<9,890	109,000	864,000	<9,830	18,800	<51,100	<36,900	<51,200	40,900	<33,000	1,530,000	<8,510	<13,600	<5,900	27,200	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	12,300,000
		1113	Initiate Vacuum Recovery Event																																			
		1320	<297	<63.9	<77.6	<62.2	<41.3	<103	1,770	<81.0	<79.3	3,560	<86.7	<98.2	<112	<98.9	589	3,740	<98.3	319	<511	<369	<512	<81.9	<330	27,500	<85.1	153	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	116,000
		1420	<297	<63.9	<77.6	<62.2	<41.3	<103	1,040	<81.0	<79.3	4,000	<86.7	<98.2	<112	<98.9	362	2,780	<98.3	358	<511	<369	<512	<81.9	<330	10,600	<85.1	245	<59.0	<188	<109	<107	<98.2	<98.2	2,150	<173	<86.7	122,000
		1420	Vacuum Recovery Event Terminated																																			
		1520	<297	<63.9	<77.6	<62.2	<41.3	<103	2,240	<81.0	<79.3	4,200	<86.7	<98.2	<112	<98.9	646	4,410	<98.3	378	<511	<369	<512	<81.9	<330	12,800	<85.1	160	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	109,000
	2/2/2023	1205	10,800	<639	<776	<622	<413	<1,030	413,000	<810	<793	<2,360	<867	<982	<1,120	<989	65,400	733,000	<983	<694	<5,110	<3690	<5,120	<819	<3,300	19,100	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	5,160,000
	2/7/2023	1105	5,940	<639	<776	<622	<413	<1,030	207,000	<810	<793	<2,360	<867	<982	<1,120	<989	34,200	213,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	10,600	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	3,530,000
		1140	Initiate Vacuum Recovery Event																																			
		1248	140	<6.39	<7.76	<6.22	<4.13	<10.3	1,790	<8.10	<7.93	24.1	<8.67	<9.82	<11.2	<9.89	<8.18	1,280	<9.83	<6.94	<51.1	43.3	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	24,500
		1348	115	<6.39	<7.76	<6.22	<4.13	<10.3	950	<8.10	<7.93	<23.6	<8.67	<9.82	<11.2	<9.89	<8.18	532	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	13,700
		1348	Vacuum Recovery Event Terminated																																			
		1449	220	<6.39	<7.76	<6.22	<4.13	<10.3	2,660	<8.10	<7.93	<23.6	<8.67	<9.82	<11.2	<9.89	<8.18	1,800	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	31,900
	2/8/2023	1327	509	<63.9	<77.6	<62.2	<41.3	<103	6,650	<81.0	<79.3	241	<86.7	<98.2	<112	<98.9	2,430	5,960	<98.3	<69.4	<511	<369	<512	<81.9	<330	752	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	85,500
	2/17/2023	1347	<297	<63.9	<77.6	159	<41.3	<103	24,900	<81.0	<79.3	3,210	<86.7	<98.2	<112	<98.9	14,100	<4,440	<98.3	<69.4	<511	1,390	<512	<81.9	<330	1,130	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	772,000
	2/20/2023	1052	383,000	<63.9	<77.6	<62.2	<41.3	<103	9,950	185	<79.3	5,450	<86.7	<98.2	<112	<98.9	6,130	67,000	<98.3	182	<511	1,600	<512	532	<330	21,900	<85.1	183	<59.0	418	<109	<107	<98.2	<98.2	<70.4	189	<86.7	367,000
		1055	Initiate Vacuum Recovery Event																																			
		1203	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	223	<16.2	<15.9	47.3	<17.3	<19.6	<22.5	<19.8	200	596	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	<16,500
		1300	<297	<63.9	<77.6	<62.2	<41.3	<103	111	185	<79.3	1,790	<86.7	<98.2	<112	<98.9	97.3	4,480	<98.3	120	<511	<369	<512	463	<330	12,900	<85.1	212	<59.0	253	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1300	Vacuum Recovery Event Terminated																																			
1408		<297	<63.9	<77.6	<62.2	<41.3	<103	2,420	<81.0	<79.3	1,920.0	<86.7	<98.2	<112	<98.9	1,860	9,240	<98.3	134	<511	442	<512	770	<330	7,940	<85.1	<136	<59.0	265	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	114,000	
2/22/2023	1341	<297	<63.9	<77.6	<62.2	<41.3	<103	2,350	<81.0	<79.3	1,730	<86.7	<98.2	<112	<98.9	1,620	9,270	<98.3	86.1	<511	784	<512	508	<330	10,400	<85.1	<136	<59.0	<188	<109	461	<98.2	<98.2	<70.4	<173	<86.7	<82,600	
3/3/2023	1012	9,620	<63.9	<77.6	85.9	<41.3	<103	72,300	<81.0	<79.3	1,500	455	190	<112	<98.9	<81.8	242,000	<98.3	<69.4	<511	2,980	<512	<81.9	<330	4,130	<85.1	<136	<59.0	<188	<109	<107	117	<98.2	<70.4	486	185	1,630,000	
3/6/2023	1019	1,160	18,600	<77.6	<62.2	<41.3	<103	123,000	<81.0	<79.3	1,600	<1,730	8,250	<112	<98.9	25,700	222,000	6,000	<69.4	<511	<369	<512	<81.9	<330	7,890	<85.1	<136	<59.0	3770	<109	<107	3,070	1,330	<70.4	47,300			



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/10/2023 7:58:15 AM

JOB DESCRIPTION

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

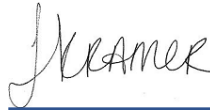
JOB NUMBER

880-25434-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

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

Authorization

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3/10/2023 7:58:15 AM

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

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

Laboratory Job ID: 880-25434-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-25434-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Case Narrative

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

Job ID: 880-25434-1
SDG: Hobbs NM

Job ID: 880-25434-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-25434-1

Receipt

The sample was received on 3/3/2023 2:44 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-92714 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-92696 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 860-92787 and analytical batch 860-92937 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-25434-1

Date Collected: 03/03/23 00:00

Matrix: Water

Date Received: 03/03/23 14:44

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00421		0.00100	0.000533 mg/L			03/06/23 13:51	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			03/06/23 13:51	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			03/06/23 13:51	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			03/06/23 13:51	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			03/06/23 13:51	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			03/06/23 13:51	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			03/06/23 13:51	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			03/06/23 13:51	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			03/06/23 13:51	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			03/06/23 13:51	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			03/06/23 13:51	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			03/06/23 13:51	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			03/06/23 13:51	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			03/06/23 13:51	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			03/06/23 13:51	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			03/06/23 13:51	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			03/06/23 13:51	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			03/06/23 13:51	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			03/06/23 13:51	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			03/06/23 13:51	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			03/06/23 13:51	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			03/06/23 13:51	1
Dichlorodifluoromethane	<0.000919 U		0.00100	0.000919 mg/L			03/06/23 13:51	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			03/06/23 13:51	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			03/06/23 13:51	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			03/06/23 13:51	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			03/06/23 13:51	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			03/06/23 13:51	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			03/06/23 13:51	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			03/06/23 13:51	1
Ethylbenzene	0.0145		0.00100	0.000411 mg/L			03/06/23 13:51	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			03/06/23 13:51	1
Isopropylbenzene	0.00698		0.00100	0.000613 mg/L			03/06/23 13:51	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			03/06/23 13:51	1
m,p-Xylenes	0.0581		0.0100	0.00124 mg/L			03/06/23 13:51	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			03/06/23 13:51	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			03/06/23 13:51	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			03/06/23 13:51	1
N-Propylbenzene	0.00300		0.00100	0.000498 mg/L			03/06/23 13:51	1
o-Xylene	0.00911		0.00100	0.000551 mg/L			03/06/23 13:51	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			03/06/23 13:51	1
sec-Butylbenzene	0.00117		0.00100	0.000468 mg/L			03/06/23 13:51	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			03/06/23 13:51	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			03/06/23 13:51	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			03/06/23 13:51	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			03/06/23 13:51	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			03/06/23 13:51	1
Toluene	0.0316		0.00100	0.000475 mg/L			03/06/23 13:51	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			03/06/23 13:51	1

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Client Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 03/03/23 00:00
Date Received: 03/03/23 14:44

Lab Sample ID: 880-25434-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			03/06/23 13:51	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L			03/06/23 13:51	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			03/06/23 13:51	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L			03/06/23 13:51	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L			03/06/23 13:51	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			03/06/23 13:51	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638	mg/L			03/06/23 13:51	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L			03/06/23 13:51	1
1,2,4-Trimethylbenzene	0.0124		0.00100	0.000417	mg/L			03/06/23 13:51	1
1,3,5-Trimethylbenzene	0.00408		0.00100	0.000456	mg/L			03/06/23 13:51	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L			03/06/23 13:51	1
Xylenes, Total	0.0672		0.0100	0.00124	mg/L			03/06/23 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124					03/06/23 13:51	1
Dibromofluoromethane (Surr)	111		75 - 131					03/06/23 13:51	1
1,2-Dichloroethane-d4 (Surr)	112		63 - 144					03/06/23 13:51	1
Toluene-d8 (Surr)	96		80 - 117					03/06/23 13:51	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.457	J	0.500	0.0711	mg/L			03/04/23 20:47	1
Nitrate as N	0.0946	J	0.100	0.0391	mg/L			03/04/23 20:47	1
Chloride	327		0.500	0.200	mg/L			03/04/23 20:47	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			03/04/23 20:47	1
Fluoride	0.148	J	0.500	0.100	mg/L			03/04/23 20:47	1
Sulfate	60.9		0.500	0.109	mg/L			03/04/23 20:47	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	376		10.0	5.76	mg/L		03/06/23 11:00	03/06/23 19:33	50
Magnesium	67.6		0.200	0.0428	mg/L		03/06/23 11:00	03/06/23 19:19	1
Potassium	6.40		0.500	0.0914	mg/L		03/06/23 11:00	03/06/23 19:19	1
Sodium	117		0.500	0.152	mg/L		03/06/23 11:00	03/06/23 19:19	1
SiO2	61.2		1.07	0.471	mg/L		03/06/23 11:00	03/06/23 19:19	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-2.26				%			03/06/23 10:19	1
Alkalinity (SM 2320B)	921		4.00	4.00	mg/L			03/07/23 12:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	921		4.00	4.00	mg/L			03/07/23 12:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/07/23 12:08	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/07/23 12:08	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/07/23 12:08	1
Total Dissolved Solids (SM 2540C)	1500		20.0	20.0	mg/L			03/04/23 08:00	1
pH (SM 4500 H+ B)	6.3	HF			SU			03/06/23 13:08	1
Temperature (SM 4500 H+ B)	17.2	HF			Degrees C			03/06/23 13:08	1

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Surrogate Summary

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

Job ID: 880-25434-1
SDG: Hobbs NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
880-25434-1	Levey Well	101	111	112	96
LCS 860-92714/3	Lab Control Sample	101	111	105	97
LCSD 860-92714/4	Lab Control Sample Dup	102	110	104	97
MB 860-92714/9	Method Blank	106	107	106	97
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-92714/9

Matrix: Water

Analysis Batch: 92714

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			03/06/23 10:47	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			03/06/23 10:47	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			03/06/23 10:47	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			03/06/23 10:47	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			03/06/23 10:47	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			03/06/23 10:47	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			03/06/23 10:47	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			03/06/23 10:47	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			03/06/23 10:47	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			03/06/23 10:47	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			03/06/23 10:47	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			03/06/23 10:47	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			03/06/23 10:47	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			03/06/23 10:47	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			03/06/23 10:47	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			03/06/23 10:47	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			03/06/23 10:47	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			03/06/23 10:47	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			03/06/23 10:47	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			03/06/23 10:47	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/06/23 10:47	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/06/23 10:47	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			03/06/23 10:47	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			03/06/23 10:47	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			03/06/23 10:47	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			03/06/23 10:47	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			03/06/23 10:47	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			03/06/23 10:47	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			03/06/23 10:47	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			03/06/23 10:47	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			03/06/23 10:47	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			03/06/23 10:47	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			03/06/23 10:47	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			03/06/23 10:47	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			03/06/23 10:47	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			03/06/23 10:47	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			03/06/23 10:47	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			03/06/23 10:47	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			03/06/23 10:47	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			03/06/23 10:47	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			03/06/23 10:47	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			03/06/23 10:47	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			03/06/23 10:47	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			03/06/23 10:47	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			03/06/23 10:47	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			03/06/23 10:47	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			03/06/23 10:47	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			03/06/23 10:47	1

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QC Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-92714/9

Matrix: Water

Analysis Batch: 92714

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			03/06/23 10:47	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			03/06/23 10:47	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			03/06/23 10:47	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			03/06/23 10:47	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			03/06/23 10:47	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			03/06/23 10:47	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			03/06/23 10:47	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			03/06/23 10:47	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			03/06/23 10:47	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			03/06/23 10:47	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			03/06/23 10:47	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			03/06/23 10:47	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			03/06/23 10:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124		03/06/23 10:47	1
Dibromofluoromethane (Surr)	107		75 - 131		03/06/23 10:47	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		03/06/23 10:47	1
Toluene-d8 (Surr)	97		80 - 117		03/06/23 10:47	1

Lab Sample ID: LCS 860-92714/3

Matrix: Water

Analysis Batch: 92714

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	0.05108		mg/L		102	75 - 125
Bromobenzene	0.0500	0.04829		mg/L		97	75 - 125
Bromochloromethane	0.0500	0.06151		mg/L		123	60 - 140
Bromodichloromethane	0.0500	0.05656		mg/L		113	75 - 125
Bromoform	0.0500	0.04826		mg/L		97	70 - 130
Bromomethane	0.0500	0.04417		mg/L		88	60 - 140
2-Butanone	0.250	0.2874		mg/L		115	60 - 140
Carbon tetrachloride	0.0500	0.05554		mg/L		111	70 - 130
Chlorobenzene	0.0500	0.04807		mg/L		96	65 - 135
Chloroethane	0.0500	0.04699		mg/L		94	60 - 140
Chloroform	0.0500	0.05836		mg/L		117	70 - 121
Chloromethane	0.0500	0.05092		mg/L		102	60 - 140
2-Chlorotoluene	0.0500	0.04739		mg/L		95	73 - 125
4-Chlorotoluene	0.0500	0.04812		mg/L		96	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05727		mg/L		115	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05525		mg/L		111	74 - 125
Dibromochloromethane	0.0500	0.05427		mg/L		109	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05698		mg/L		114	59 - 125
1,2-Dibromoethane	0.0500	0.05446		mg/L		109	73 - 125
1,2-Dichlorobenzene	0.0500	0.04888		mg/L		98	75 - 125
1,3-Dichlorobenzene	0.0500	0.04742		mg/L		95	75 - 125
1,4-Dichlorobenzene	0.0500	0.04749		mg/L		95	75 - 125
Dichlorodifluoromethane	0.0500	0.04669		mg/L		93	70 - 130

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QC Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-92714/3

Matrix: Water

Analysis Batch: 92714

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	0.05728		mg/L		115	70 - 130
1,2-Dichloroethane	0.0500	0.05886		mg/L		118	72 - 130
1,1-Dichloroethene	0.0500	0.04861		mg/L		97	50 - 150
1,2-Dichloropropane	0.0500	0.05482		mg/L		110	74 - 125
1,3-Dichloropropane	0.0500	0.05224		mg/L		104	75 - 125
2,2-Dichloropropane	0.0500	0.05689		mg/L		114	75 - 125
1,1-Dichloropropene	0.0500	0.05500		mg/L		110	75 - 125
Ethylbenzene	0.0500	0.04794		mg/L		96	75 - 125
Hexachlorobutadiene	0.0500	0.05059		mg/L		101	75 - 125
Isopropylbenzene	0.0500	0.04749		mg/L		95	75 - 125
Methylene Chloride	0.0500	0.05555		mg/L		111	75 - 125
m,p-Xylenes	0.0500	0.04780		mg/L		96	75 - 125
MTBE	0.0500	0.05878		mg/L		118	65 - 135
Naphthalene	0.0500	0.05451		mg/L		109	70 - 130
n-Butylbenzene	0.0500	0.04848		mg/L		97	75 - 125
N-Propylbenzene	0.0500	0.04685		mg/L		94	75 - 125
o-Xylene	0.0500	0.04837		mg/L		97	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04725		mg/L		94	75 - 125
sec-Butylbenzene	0.0500	0.04638		mg/L		93	75 - 125
Styrene	0.0500	0.04987		mg/L		100	75 - 125
tert-Butylbenzene	0.0500	0.04611		mg/L		92	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05203		mg/L		104	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05199		mg/L		104	74 - 125
Tetrachloroethene	0.0500	0.04775		mg/L		96	71 - 125
Toluene	0.0500	0.04813		mg/L		96	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05424		mg/L		108	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05457		mg/L		109	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05138		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05012		mg/L		100	75 - 135
1,1,1-Trichloroethane	0.0500	0.05649		mg/L		113	70 - 130
1,1,2-Trichloroethane	0.0500	0.05395		mg/L		108	70 - 130
Trichloroethene	0.0500	0.05199		mg/L		104	75 - 135
Trichlorofluoromethane	0.0500	0.04861		mg/L		97	60 - 140
1,2,3-Trichloropropane	0.0500	0.05224		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04759		mg/L		95	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04702		mg/L		94	60 - 140
Vinyl chloride	0.0500	0.04677		mg/L		94	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	111		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	97		80 - 117

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QC Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-92714/4

Matrix: Water

Analysis Batch: 92714

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	0.04957		mg/L		99	75 - 125	3	25
Bromobenzene	0.0500	0.04834		mg/L		97	75 - 125	0	25
Bromochloromethane	0.0500	0.05840		mg/L		117	60 - 140	5	25
Bromodichloromethane	0.0500	0.05456		mg/L		109	75 - 125	4	25
Bromoform	0.0500	0.04740		mg/L		95	70 - 130	2	25
Bromomethane	0.0500	0.04614		mg/L		92	60 - 140	4	25
2-Butanone	0.250	0.2820		mg/L		113	60 - 140	2	25
Carbon tetrachloride	0.0500	0.05259		mg/L		105	70 - 130	5	25
Chlorobenzene	0.0500	0.04710		mg/L		94	65 - 135	2	25
Chloroethane	0.0500	0.04827		mg/L		97	60 - 140	3	25
Chloroform	0.0500	0.05574		mg/L		111	70 - 121	5	25
Chloromethane	0.0500	0.05125		mg/L		103	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04716		mg/L		94	73 - 125	0	25
4-Chlorotoluene	0.0500	0.04767		mg/L		95	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05441		mg/L		109	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.05300		mg/L		106	74 - 125	4	25
Dibromochloromethane	0.0500	0.05249		mg/L		105	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05836		mg/L		117	59 - 125	2	25
1,2-Dibromoethane	0.0500	0.05272		mg/L		105	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.04919		mg/L		98	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04773		mg/L		95	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.04786		mg/L		96	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04751		mg/L		95	70 - 130	2	25
1,1-Dichloroethane	0.0500	0.05463		mg/L		109	70 - 130	5	25
1,2-Dichloroethane	0.0500	0.05649		mg/L		113	72 - 130	4	25
1,1-Dichloroethene	0.0500	0.04672		mg/L		93	50 - 150	4	25
1,2-Dichloropropane	0.0500	0.05317		mg/L		106	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.05089		mg/L		102	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05352		mg/L		107	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.05220		mg/L		104	75 - 125	5	25
Ethylbenzene	0.0500	0.04664		mg/L		93	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05012		mg/L		100	75 - 125	1	25
Isopropylbenzene	0.0500	0.04568		mg/L		91	75 - 125	4	25
Methylene Chloride	0.0500	0.05353		mg/L		107	75 - 125	4	25
m,p-Xylenes	0.0500	0.04651		mg/L		93	75 - 125	3	25
MTBE	0.0500	0.05675		mg/L		114	65 - 135	4	25
Naphthalene	0.0500	0.05773		mg/L		115	70 - 130	6	25
n-Butylbenzene	0.0500	0.04791		mg/L		96	75 - 125	1	25
N-Propylbenzene	0.0500	0.04644		mg/L		93	75 - 125	1	25
o-Xylene	0.0500	0.04703		mg/L		94	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04654		mg/L		93	75 - 125	1	25
sec-Butylbenzene	0.0500	0.04607		mg/L		92	75 - 125	1	25
Styrene	0.0500	0.04851		mg/L		97	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04557		mg/L		91	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04985		mg/L		100	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.05238		mg/L		105	74 - 125	1	25
Tetrachloroethene	0.0500	0.04640		mg/L		93	71 - 125	3	25
Toluene	0.0500	0.04642		mg/L		93	70 - 130	4	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-92714/4

Matrix: Water

Analysis Batch: 92714

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	0.05191		mg/L		104	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05245		mg/L		105	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05449		mg/L		109	75 - 137	6	25
1,2,4-Trichlorobenzene	0.0500	0.05136		mg/L		103	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05376		mg/L		108	70 - 130	5	25
1,1,2-Trichloroethane	0.0500	0.05153		mg/L		103	70 - 130	5	25
Trichloroethene	0.0500	0.04954		mg/L		99	75 - 135	5	25
Trichlorofluoromethane	0.0500	0.05028		mg/L		101	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.05224		mg/L		104	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.04760		mg/L		95	75 - 125	0	25
1,3,5-Trimethylbenzene	0.0500	0.04678		mg/L		94	60 - 140	1	25
Vinyl chloride	0.0500	0.04843		mg/L		97	60 - 140	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	110		75 - 131
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-92696/3

Matrix: Water

Analysis Batch: 92696

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/04/23 18:18	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/04/23 18:18	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/04/23 18:18	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/04/23 18:18	1

Lab Sample ID: LCS 860-92696/4

Matrix: Water

Analysis Batch: 92696

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	10.35		mg/L		103	90 - 110
Chloride	10.0	9.965		mg/L		100	90 - 110
Fluoride	10.0	9.962		mg/L		100	90 - 110
Sulfate	10.0	9.872		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-92696/5

Matrix: Water

Analysis Batch: 92696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	10.0	10.60		mg/L		106	90 - 110	2	20
Chloride	10.0	10.19		mg/L		102	90 - 110	2	20
Fluoride	10.0	10.19		mg/L		102	90 - 110	2	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-92696/5

Matrix: Water

Analysis Batch: 92696

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	10.15		mg/L		102	90 - 110	3	20

Lab Sample ID: LLCS 860-92696/7

Matrix: Water

Analysis Batch: 92696

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	0.6153		mg/L		123	50 - 150		
Chloride	0.500	0.5639		mg/L		113	50 - 150		
Fluoride	0.500	0.4885	J	mg/L		98	50 - 150		
Sulfate	0.500	0.5299		mg/L		106	50 - 150		

Lab Sample ID: MB 860-92697/3

Matrix: Water

Analysis Batch: 92697

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/04/23 18:18	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/04/23 18:18	1

Lab Sample ID: LCS 860-92697/4

Matrix: Water

Analysis Batch: 92697

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	9.937		mg/L		99	80 - 120		
Nitrite as N	10.0	9.556		mg/L		96	80 - 120		

Lab Sample ID: LCSD 860-92697/5

Matrix: Water

Analysis Batch: 92697

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.20		mg/L		102	80 - 120	3	20
Nitrite as N	10.0	9.797		mg/L		98	80 - 120	2	20

Lab Sample ID: LLCS 860-92697/6

Matrix: Water

Analysis Batch: 92697

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	0.1329		mg/L		133	50 - 150		
Nitrite as N	0.100	0.07893	J	mg/L		79	50 - 150		

Eurofins Midland

QC Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-92787/1-A

Matrix: Water

Analysis Batch: 92937

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 92787

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.115	U	0.200	0.115 mg/L		03/06/23 11:00	03/06/23 18:36	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		03/06/23 11:00	03/06/23 18:36	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		03/06/23 11:00	03/06/23 18:36	1
Sodium	<0.152	U	0.500	0.152 mg/L		03/06/23 11:00	03/06/23 18:36	1
SiO2	<0.471	U	1.07	0.471 mg/L		03/06/23 11:00	03/06/23 18:36	1

Lab Sample ID: LCS 860-92787/2-A

Matrix: Water

Analysis Batch: 92937

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 92787

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Calcium	25.0	24.70		mg/L		99	85 - 115	
Magnesium	25.0	24.30		mg/L		97	85 - 115	
Potassium	10.0	9.670		mg/L		97	85 - 115	
Sodium	25.0	23.70		mg/L		95	85 - 115	
SiO2	21.4	20.76		mg/L		97	85 - 115	

Lab Sample ID: LCSD 860-92787/3-A

Matrix: Water

Analysis Batch: 92937

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 92787

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits			
Calcium	25.0	24.20		mg/L		97	85 - 115	2	20	
Magnesium	25.0	23.50		mg/L		94	85 - 115	3	20	
Potassium	10.0	9.720		mg/L		97	85 - 115	1	20	
Sodium	25.0	23.90		mg/L		96	85 - 115	1	20	
SiO2	21.4	20.54		mg/L		96	85 - 115	1	20	

Lab Sample ID: LLCS 860-92787/4-A

Matrix: Water

Analysis Batch: 92937

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 92787

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Calcium	0.200	0.2210		mg/L		111	50 - 150	
Magnesium	0.200	0.2310		mg/L		116	50 - 150	
Potassium	0.500	0.4850	J	mg/L		97	50 - 150	
Sodium	0.500	0.4340	J	mg/L		87	50 - 150	
SiO2	1.07	1.196		mg/L		112	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-93031/3

Matrix: Water

Analysis Batch: 93031

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			03/07/23 11:18	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/07/23 11:18	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/07/23 11:18	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			03/07/23 11:18	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-25434-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-93031/3

Matrix: Water

Analysis Batch: 93031

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			03/07/23 11:18	1

Lab Sample ID: LCS 860-93031/4

Matrix: Water

Analysis Batch: 93031

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	232.1		mg/L		93	85 - 115

Lab Sample ID: LCSD 860-93031/5

Matrix: Water

Analysis Batch: 93031

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	231.8		mg/L		93	85 - 115	0	20

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

Lab Sample ID: MB 860-92679/1

Matrix: Water

Analysis Batch: 92679

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			03/04/23 08:00	1

Lab Sample ID: LCS 860-92679/2

Matrix: Water

Analysis Batch: 92679

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	911.0		mg/L		91	80 - 120

Lab Sample ID: LCSD 860-92679/3

Matrix: Water

Analysis Batch: 92679

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	923.0		mg/L		92	80 - 120	1	10

Lab Sample ID: LLCS 860-92679/4

Matrix: Water

Analysis Batch: 92679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		88	50 - 150

Eurofins Midland

QC Association Summary

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

Job ID: 880-25434-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 92714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25434-1	Levey Well	Total/NA	Water	8260C	
MB 860-92714/9	Method Blank	Total/NA	Water	8260C	
LCS 860-92714/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-92714/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 92696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25434-1	Levey Well	Total/NA	Water	300.0	
MB 860-92696/3	Method Blank	Total/NA	Water	300.0	
LCS 860-92696/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-92696/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-92696/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 92697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25434-1	Levey Well	Total/NA	Water	300.0	
MB 860-92697/3	Method Blank	Total/NA	Water	300.0	
LCS 860-92697/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-92697/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-92697/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 92787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25434-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-92787/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-92787/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-92787/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-92787/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 92937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25434-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	92787
880-25434-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	92787
MB 860-92787/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	92787
LCS 860-92787/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	92787
LCSD 860-92787/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	92787
LLCS 860-92787/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	92787

General Chemistry

Analysis Batch: 92679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25434-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-92679/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-92679/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-92679/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-92679/4	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 880-25434-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 92775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25434-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 92827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25434-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 93031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25434-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-93031/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-93031/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-93031/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-25434-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-25434-1

Date Collected: 03/03/23 00:00

Matrix: Water

Date Received: 03/03/23 14:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	92714	NA	EET HOU	03/06/23 13:51
Total/NA	Analysis	300.0		1	92696	WP	EET HOU	03/04/23 20:47
Total/NA	Analysis	300.0		1	92697	WP	EET HOU	03/04/23 20:47
Total Recoverable	Prep	200.7			92787	MD	EET HOU	03/06/23 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	92937	JDM	EET HOU	03/06/23 19:19
Total Recoverable	Prep	200.7			92787	MD	EET HOU	03/06/23 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	92937	JDM	EET HOU	03/06/23 19:33
Total/NA	Analysis	SM 1030E		1	92775	AA	EET HOU	03/06/23 10:19
Total/NA	Analysis	SM 2320B		1	93031	TL	EET HOU	03/07/23 12:08
Total/NA	Analysis	SM 2540C		1	92679	HN	EET HOU	03/04/23 08:00
Total/NA	Analysis	SM 4500 H+ B		1	92827	TL	EET HOU	03/06/23 13:08

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

Accreditation/Certification Summary

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

Job ID: 880-25434-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-48	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

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

Job ID: 880-25434-1
SDG: Hobbs NM

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-25434-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25434-1	Levey Well	Water	03/03/23 00:00	03/03/23 14:44

- 1
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- 14



Chain of Custody

Work Order No: 25430

Houston TX (281) 240-4200 Dallas, TX (214) 902-0030 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 281-3927
Hobbs, NM (575-392-7550)

www.xenco.com Page 1 of 1

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

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

Project Name:	Levey Well	Hobbs NM	Tum Around								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):		59.5			Thermometer ID		
Received intact:		Yes	No				
Cooler Custody Seals:		Yes	No	N/A	Correction Factor:		
Sample Custody Seals:		Yes	No	N/A	Total Containers:		

Number of Containers

F, Cl, SO₄, B

Ca, K, Mg, Na, Si

Day

TAT starts the day received by the lab, if received by 4.30pm

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions:	Cations:	pH	Alkalinity	TDS	Sample Comments	
Levey Well	GW	3-3-23				7	X	X	X	X	X	X	24hr	

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Ee	Pb	Mn	Mg	Ni	K	Se	Aq	SiO ₂	Na	Sr	Tl	Sn	Il	V	Zn	

TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
16331 / 2451 / 7470 / 7471 Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3/3/23			
		12:44			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-25434-1

SDG Number: Hobbs NM

Login Number: 25434

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: 880-25434-1

SDG Number: Hobbs NM

Login Number: 25434

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 03/04/23 10:55 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/15/2023 9:58:18 AM

JOB DESCRIPTION

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

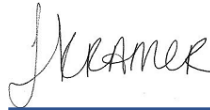
JOB NUMBER

880-25684-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

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

Authorization

Generated
3/15/2023 9:58:18 AM

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

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

Laboratory Job ID: 880-25684-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-25684-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

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

General Chemistry

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

Glossary

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

Definitions/Glossary

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

Job ID: 880-25684-1
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
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Case Narrative

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

Job ID: 880-25684-1
SDG: Hobbs NM

Job ID: 880-25684-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-25684-1****Receipt**

The sample was received on 3/8/2023 3:34 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 5.0°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The sample duplicate precision for the following sample associated with analytical batch 860-93644 was outside control limits: (870-15177-A-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-93644 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-93645 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFMS: The following sample was received outside of holding time: Levey Well (880-25684-1).

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 860-93741 and analytical batch 860-93858 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 200.7: The following sample was diluted to bring the concentration of target analytes within the calibration range: Levey Well (880-25684-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-25684-1

Date Collected: 03/08/23 10:50

Matrix: Water

Date Received: 03/08/23 15:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00410		0.00100	0.000533	mg/L		03/10/23 16:16	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		03/10/23 16:16	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		03/10/23 16:16	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		03/10/23 16:16	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		03/10/23 16:16	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		03/10/23 16:16	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		03/10/23 16:16	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		03/10/23 16:16	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		03/10/23 16:16	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		03/10/23 16:16	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		03/10/23 16:16	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		03/10/23 16:16	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		03/10/23 16:16	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		03/10/23 16:16	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		03/10/23 16:16	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		03/10/23 16:16	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		03/10/23 16:16	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		03/10/23 16:16	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		03/10/23 16:16	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		03/10/23 16:16	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		03/10/23 16:16	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		03/10/23 16:16	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		03/10/23 16:16	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		03/10/23 16:16	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		03/10/23 16:16	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		03/10/23 16:16	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		03/10/23 16:16	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		03/10/23 16:16	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		03/10/23 16:16	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		03/10/23 16:16	1
Ethylbenzene	0.0132		0.00100	0.000411	mg/L		03/10/23 16:16	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		03/10/23 16:16	1
Isopropylbenzene	0.00618		0.00100	0.000613	mg/L		03/10/23 16:16	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		03/10/23 16:16	1
m,p-Xylenes	0.0539		0.0100	0.00124	mg/L		03/10/23 16:16	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		03/10/23 16:16	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		03/10/23 16:16	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		03/10/23 16:16	1
N-Propylbenzene	0.00276		0.00100	0.000498	mg/L		03/10/23 16:16	1
o-Xylene	0.00896		0.00100	0.000551	mg/L		03/10/23 16:16	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		03/10/23 16:16	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		03/10/23 16:16	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		03/10/23 16:16	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		03/10/23 16:16	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		03/10/23 16:16	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		03/10/23 16:16	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		03/10/23 16:16	1
Toluene	0.0288		0.00100	0.000475	mg/L		03/10/23 16:16	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		03/10/23 16:16	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-25684-1
Date Collected: 03/08/23 10:50 Matrix: Water
Date Received: 03/08/23 15:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			03/10/23 16:16	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			03/10/23 16:16	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			03/10/23 16:16	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			03/10/23 16:16	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			03/10/23 16:16	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			03/10/23 16:16	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			03/10/23 16:16	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			03/10/23 16:16	1
1,2,4-Trimethylbenzene	0.0138		0.00100	0.000417 mg/L			03/10/23 16:16	1
1,3,5-Trimethylbenzene	0.00409		0.00100	0.000456 mg/L			03/10/23 16:16	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			03/10/23 16:16	1
Xylenes, Total	0.0629		0.0100	0.00124 mg/L			03/10/23 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124				03/10/23 16:16	1
Dibromofluoromethane (Surr)	110		75 - 131				03/10/23 16:16	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144				03/10/23 16:16	1
Toluene-d8 (Surr)	93		80 - 117				03/10/23 16:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.488	J	0.500	0.0711 mg/L			03/10/23 21:26	1
Nitrate as N	0.106	H	0.100	0.0391 mg/L			03/10/23 21:26	1
Chloride	222		0.500	0.200 mg/L			03/10/23 21:26	1
Nitrite as N	<0.0293	U H F1	0.100	0.0293 mg/L			03/10/23 21:26	1
Fluoride	0.425	J	0.500	0.100 mg/L			03/10/23 21:26	1
Sulfate	49.2		0.500	0.109 mg/L			03/10/23 21:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250		10.0	5.76 mg/L		03/11/23 13:52	03/13/23 11:37	50
Magnesium	48.8		0.200	0.0428 mg/L		03/11/23 13:52	03/13/23 11:09	1
Potassium	3.95		0.500	0.0914 mg/L		03/11/23 13:52	03/13/23 11:09	1
Sodium	72.6		0.500	0.152 mg/L		03/11/23 13:52	03/13/23 11:09	1
SiO2	60.3		1.07	0.471 mg/L		03/11/23 13:52	03/13/23 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-8.10			%			03/15/23 10:44	1
Alkalinity (SM 2320B)	696		4.00	4.00 mg/L			03/13/23 11:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	696		4.00	4.00 mg/L			03/13/23 11:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			03/13/23 11:53	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			03/13/23 11:53	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			03/13/23 11:53	1
Total Dissolved Solids (SM 2540C)	1380		10.0	10.0 mg/L			03/13/23 07:00	1
pH (SM 4500 H+ B)	6.3	HF		SU			03/10/23 16:37	1
Temperature (SM 4500 H+ B)	19.0	HF		Celsius			03/10/23 16:37	1

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Surrogate Summary

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

Job ID: 880-25684-1
SDG: Hobbs NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
880-25684-1	Levey Well	105	110	108	93
LCS 860-93466/3	Lab Control Sample	101	112	102	94
LCSD 860-93466/4	Lab Control Sample Dup	101	112	102	95
MB 860-93466/9	Method Blank	104	110	104	95
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: 880-25684-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-93466/9

Matrix: Water

Analysis Batch: 93466

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			03/10/23 09:46	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			03/10/23 09:46	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			03/10/23 09:46	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			03/10/23 09:46	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			03/10/23 09:46	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			03/10/23 09:46	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			03/10/23 09:46	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			03/10/23 09:46	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			03/10/23 09:46	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			03/10/23 09:46	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			03/10/23 09:46	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			03/10/23 09:46	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			03/10/23 09:46	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			03/10/23 09:46	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			03/10/23 09:46	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			03/10/23 09:46	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			03/10/23 09:46	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			03/10/23 09:46	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			03/10/23 09:46	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			03/10/23 09:46	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/10/23 09:46	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/10/23 09:46	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			03/10/23 09:46	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			03/10/23 09:46	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			03/10/23 09:46	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			03/10/23 09:46	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			03/10/23 09:46	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			03/10/23 09:46	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			03/10/23 09:46	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			03/10/23 09:46	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			03/10/23 09:46	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			03/10/23 09:46	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			03/10/23 09:46	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			03/10/23 09:46	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			03/10/23 09:46	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			03/10/23 09:46	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			03/10/23 09:46	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			03/10/23 09:46	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			03/10/23 09:46	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			03/10/23 09:46	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			03/10/23 09:46	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			03/10/23 09:46	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			03/10/23 09:46	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			03/10/23 09:46	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			03/10/23 09:46	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			03/10/23 09:46	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			03/10/23 09:46	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			03/10/23 09:46	1

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QC Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-93466/9

Matrix: Water

Analysis Batch: 93466

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			03/10/23 09:46	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			03/10/23 09:46	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			03/10/23 09:46	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			03/10/23 09:46	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			03/10/23 09:46	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			03/10/23 09:46	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			03/10/23 09:46	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			03/10/23 09:46	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			03/10/23 09:46	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			03/10/23 09:46	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			03/10/23 09:46	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			03/10/23 09:46	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			03/10/23 09:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		03/10/23 09:46	1
Dibromofluoromethane (Surr)	110		75 - 131		03/10/23 09:46	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		03/10/23 09:46	1
Toluene-d8 (Surr)	95		80 - 117		03/10/23 09:46	1

Lab Sample ID: LCS 860-93466/3

Matrix: Water

Analysis Batch: 93466

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	0.04667		mg/L		93	75 - 125
Bromobenzene	0.0500	0.04361		mg/L		87	75 - 125
Bromochloromethane	0.0500	0.05706		mg/L		114	60 - 140
Bromodichloromethane	0.0500	0.04981		mg/L		100	75 - 125
Bromoform	0.0500	0.04043		mg/L		81	70 - 130
Bromomethane	0.0500	0.04847		mg/L		97	60 - 140
2-Butanone	0.250	0.2813		mg/L		113	60 - 140
Carbon tetrachloride	0.0500	0.05141		mg/L		103	70 - 130
Chlorobenzene	0.0500	0.04343		mg/L		87	65 - 135
Chloroethane	0.0500	0.04922		mg/L		98	60 - 140
Chloroform	0.0500	0.05441		mg/L		109	70 - 121
Chloromethane	0.0500	0.04690		mg/L		94	60 - 140
2-Chlorotoluene	0.0500	0.04262		mg/L		85	73 - 125
4-Chlorotoluene	0.0500	0.04337		mg/L		87	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05289		mg/L		106	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04924		mg/L		98	74 - 125
Dibromochloromethane	0.0500	0.04511		mg/L		90	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05016		mg/L		100	59 - 125
1,2-Dibromoethane	0.0500	0.04828		mg/L		97	73 - 125
1,2-Dichlorobenzene	0.0500	0.04486		mg/L		90	75 - 125
1,3-Dichlorobenzene	0.0500	0.04293		mg/L		86	75 - 125
1,4-Dichlorobenzene	0.0500	0.04293		mg/L		86	75 - 125
Dichlorodifluoromethane	0.0500	0.03946		mg/L		79	70 - 130

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QC Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-93466/3

Matrix: Water

Analysis Batch: 93466

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	0.05283		mg/L		106	70 - 130
1,2-Dichloroethane	0.0500	0.05339		mg/L		107	72 - 130
1,1-Dichloroethene	0.0500	0.04500		mg/L		90	50 - 150
1,2-Dichloropropane	0.0500	0.04934		mg/L		99	74 - 125
1,3-Dichloropropane	0.0500	0.04571		mg/L		91	75 - 125
2,2-Dichloropropane	0.0500	0.05341		mg/L		107	75 - 125
1,1-Dichloropropene	0.0500	0.05244		mg/L		105	75 - 125
Ethylbenzene	0.0500	0.04319		mg/L		86	75 - 125
Hexachlorobutadiene	0.0500	0.04639		mg/L		93	75 - 125
Isopropylbenzene	0.0500	0.04342		mg/L		87	75 - 125
Methylene Chloride	0.0500	0.05219		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.04362		mg/L		87	75 - 125
MTBE	0.0500	0.05485		mg/L		110	65 - 135
Naphthalene	0.0500	0.05030		mg/L		101	70 - 130
n-Butylbenzene	0.0500	0.04469		mg/L		89	75 - 125
N-Propylbenzene	0.0500	0.04265		mg/L		85	75 - 125
o-Xylene	0.0500	0.04324		mg/L		86	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04300		mg/L		86	75 - 125
sec-Butylbenzene	0.0500	0.04275		mg/L		86	75 - 125
Styrene	0.0500	0.04428		mg/L		89	75 - 125
tert-Butylbenzene	0.0500	0.04211		mg/L		84	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04425		mg/L		89	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04705		mg/L		94	74 - 125
Tetrachloroethene	0.0500	0.04376		mg/L		88	71 - 125
Toluene	0.0500	0.04268		mg/L		85	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04944		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04607		mg/L		92	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04754		mg/L		95	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04606		mg/L		92	75 - 135
1,1,1-Trichloroethane	0.0500	0.05281		mg/L		106	70 - 130
1,1,2-Trichloroethane	0.0500	0.04696		mg/L		94	70 - 130
Trichloroethene	0.0500	0.04821		mg/L		96	75 - 135
Trichlorofluoromethane	0.0500	0.05372		mg/L		107	60 - 140
1,2,3-Trichloropropane	0.0500	0.04643		mg/L		93	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04335		mg/L		87	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04261		mg/L		85	60 - 140
Vinyl chloride	0.0500	0.04742		mg/L		95	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	112		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	94		80 - 117

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QC Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-93466/4

Matrix: Water

Analysis Batch: 93466

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	0.04684		mg/L		94	75 - 125	0	25
Bromobenzene	0.0500	0.04450		mg/L		89	75 - 125	2	25
Bromochloromethane	0.0500	0.05605		mg/L		112	60 - 140	2	25
Bromodichloromethane	0.0500	0.04973		mg/L		99	75 - 125	0	25
Bromoform	0.0500	0.04131		mg/L		83	70 - 130	2	25
Bromomethane	0.0500	0.04818		mg/L		96	60 - 140	1	25
2-Butanone	0.250	0.2752		mg/L		110	60 - 140	2	25
Carbon tetrachloride	0.0500	0.05025		mg/L		101	70 - 130	2	25
Chlorobenzene	0.0500	0.04435		mg/L		89	65 - 135	2	25
Chloroethane	0.0500	0.04861		mg/L		97	60 - 140	1	25
Chloroform	0.0500	0.05371		mg/L		107	70 - 121	1	25
Chloromethane	0.0500	0.04690		mg/L		94	60 - 140	0	25
2-Chlorotoluene	0.0500	0.04376		mg/L		88	73 - 125	3	25
4-Chlorotoluene	0.0500	0.04426		mg/L		89	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.05217		mg/L		104	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04906		mg/L		98	74 - 125	0	25
Dibromochloromethane	0.0500	0.04639		mg/L		93	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05026		mg/L		101	59 - 125	0	25
1,2-Dibromoethane	0.0500	0.04907		mg/L		98	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04567		mg/L		91	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.04392		mg/L		88	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04425		mg/L		88	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.03804		mg/L		76	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.05193		mg/L		104	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.05338		mg/L		107	72 - 130	0	25
1,1-Dichloroethene	0.0500	0.04419		mg/L		88	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.04978		mg/L		100	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04683		mg/L		94	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05167		mg/L		103	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.05122		mg/L		102	75 - 125	2	25
Ethylbenzene	0.0500	0.04410		mg/L		88	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.04736		mg/L		95	75 - 125	2	25
Isopropylbenzene	0.0500	0.04377		mg/L		88	75 - 125	1	25
Methylene Chloride	0.0500	0.05098		mg/L		102	75 - 125	2	25
m,p-Xylenes	0.0500	0.04388		mg/L		88	75 - 125	1	25
MTBE	0.0500	0.05370		mg/L		107	65 - 135	2	25
Naphthalene	0.0500	0.05279		mg/L		106	70 - 130	5	25
n-Butylbenzene	0.0500	0.04533		mg/L		91	75 - 125	1	25
N-Propylbenzene	0.0500	0.04354		mg/L		87	75 - 125	2	25
o-Xylene	0.0500	0.04386		mg/L		88	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04370		mg/L		87	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04353		mg/L		87	75 - 125	2	25
Styrene	0.0500	0.04498		mg/L		90	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04310		mg/L		86	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.04547		mg/L		91	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04814		mg/L		96	74 - 125	2	25
Tetrachloroethene	0.0500	0.04395		mg/L		88	71 - 125	0	25
Toluene	0.0500	0.04347		mg/L		87	70 - 130	2	25

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QC Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-93466/4

Matrix: Water

Analysis Batch: 93466

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	0.04923		mg/L		98	75 - 125	0	25
trans-1,3-Dichloropropene	0.0500	0.04648		mg/L		93	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.04991		mg/L		100	75 - 137	5	25
1,2,4-Trichlorobenzene	0.0500	0.04797		mg/L		96	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.05193		mg/L		104	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04760		mg/L		95	70 - 130	1	25
Trichloroethene	0.0500	0.04791		mg/L		96	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.05278		mg/L		106	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.04728		mg/L		95	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04430		mg/L		89	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.04359		mg/L		87	60 - 140	2	25
Vinyl chloride	0.0500	0.04719		mg/L		94	60 - 140	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	112		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	95		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-93644/3

Matrix: Water

Analysis Batch: 93644

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/10/23 15:02	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/10/23 15:02	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/10/23 15:02	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/10/23 15:02	1

Lab Sample ID: LCS 860-93644/4

Matrix: Water

Analysis Batch: 93644

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	10.26		mg/L		103	90 - 110
Chloride	10.0	10.03		mg/L		100	90 - 110
Fluoride	10.0	10.27		mg/L		103	90 - 110
Sulfate	10.0	10.17		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-93644/5

Matrix: Water

Analysis Batch: 93644

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	10.33		mg/L		103	90 - 110	1	20
Chloride	10.0	10.11		mg/L		101	90 - 110	1	20
Fluoride	10.0	10.35		mg/L		104	90 - 110	1	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-93644/5

Matrix: Water

Analysis Batch: 93644

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	10.25		mg/L		102	90 - 110	1	20

Lab Sample ID: LLCS 860-93644/7

Matrix: Water

Analysis Batch: 93644

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.500	0.5825		mg/L		116	50 - 150		
Chloride	0.500	0.5410		mg/L		108	50 - 150		
Fluoride	0.500	0.4935	J	mg/L		99	50 - 150		
Sulfate	0.500	0.5031		mg/L		101	50 - 150		

Lab Sample ID: 880-25684-1 MS

Matrix: Water

Analysis Batch: 93644

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.488	J	10.0	10.62		mg/L		101	90 - 110		
Chloride	222		10.0	224.6	4	mg/L		26	90 - 110		
Fluoride	0.425	J	10.0	10.82		mg/L		104	90 - 110		
Sulfate	49.2		10.0	59.33	4	mg/L		101	90 - 110		

Lab Sample ID: 880-25684-1 MSD

Matrix: Water

Analysis Batch: 93644

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	0.488	J	10.0	10.71		mg/L		102	90 - 110	1	20
Chloride	222		10.0	225.8	4	mg/L		38	90 - 110	1	20
Fluoride	0.425	J	10.0	10.91		mg/L		105	90 - 110	1	20
Sulfate	49.2		10.0	59.63	4	mg/L		104	90 - 110	1	20

Lab Sample ID: MB 860-93645/3

Matrix: Water

Analysis Batch: 93645

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/10/23 15:02	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/10/23 15:02	1

Lab Sample ID: LCS 860-93645/4

Matrix: Water

Analysis Batch: 93645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	9.978		mg/L		100	80 - 120		
Nitrite as N	10.0	9.931		mg/L		99	80 - 120		

Eurofins Midland

QC Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-93645/5

Matrix: Water

Analysis Batch: 93645

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD
							Limits			
Nitrate as N	10.0	10.06		mg/L		101	80 - 120		1	20
Nitrite as N	10.0	9.999		mg/L		100	80 - 120		1	20

Lab Sample ID: LLCS 860-93645/6

Matrix: Water

Analysis Batch: 93645

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	0.1294		mg/L		129	50 - 150	
Nitrite as N	0.100	0.07573	J	mg/L		76	50 - 150	

Lab Sample ID: 880-25684-1 MS

Matrix: Water

Analysis Batch: 93645

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	0.106	H	10.0	9.878		mg/L		98	80 - 120	
Nitrite as N	<0.0293	U H F1	2.50	1.964	F1	mg/L		79	80 - 120	

Lab Sample ID: 880-25684-1 MSD

Matrix: Water

Analysis Batch: 93645

Client Sample ID: Levey Well

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Nitrate as N	0.106	H	10.0	9.940		mg/L		98	80 - 120	1	15
Nitrite as N	<0.0293	U H F1	2.50	1.977	F1	mg/L		79	80 - 120	1	15

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-93741/1-A

Matrix: Water

Analysis Batch: 93858

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 93741

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115	mg/L	03/11/23 13:52	03/13/23 10:26	1
Magnesium	<0.0428	U	0.200	0.0428	mg/L	03/11/23 13:52	03/13/23 10:26	1
Potassium	<0.0914	U	0.500	0.0914	mg/L	03/11/23 13:52	03/13/23 10:26	1
Sodium	<0.152	U	0.500	0.152	mg/L	03/11/23 13:52	03/13/23 10:26	1
SiO2	<0.471	U	1.07	0.471	mg/L	03/11/23 13:52	03/13/23 10:26	1

Lab Sample ID: LCS 860-93741/2-A

Matrix: Water

Analysis Batch: 93858

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 93741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Calcium	25.0	24.30		mg/L		97	85 - 115	
Magnesium	25.0	23.50		mg/L		94	85 - 115	
Potassium	10.0	9.420		mg/L		94	85 - 115	
Sodium	25.0	23.40		mg/L		94	85 - 115	
SiO2	21.4	21.27		mg/L		99	85 - 115	

Eurofins Midland

QC Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCSD 860-93741/3-A

Matrix: Water

Analysis Batch: 93858

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 93741

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Calcium	25.0	24.40		mg/L		98	85 - 115	0		20
Magnesium	25.0	23.60		mg/L		94	85 - 115	0		20
Potassium	10.0	9.430		mg/L		94	85 - 115	0		20
Sodium	25.0	23.50		mg/L		94	85 - 115	0		20
SiO2	21.4	21.21		mg/L		99	85 - 115	0		20

Lab Sample ID: LLCS 860-93741/4-A

Matrix: Water

Analysis Batch: 93858

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 93741

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Calcium	0.200	0.2710		mg/L		136	50 - 150			
Magnesium	0.200	0.2210		mg/L		111	50 - 150			
Potassium	0.500	0.5780		mg/L		116	50 - 150			
Sodium	0.500	0.5040		mg/L		101	50 - 150			
SiO2	1.07	1.224		mg/L		114	50 - 150			

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-93910/3

Matrix: Water

Analysis Batch: 93910

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	mg/L			03/13/23 11:23	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			03/13/23 11:23	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			03/13/23 11:23	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			03/13/23 11:23	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			03/13/23 11:23	1

Lab Sample ID: LCS 860-93910/4

Matrix: Water

Analysis Batch: 93910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Alkalinity	250	236.5		mg/L		95	85 - 115			

Lab Sample ID: LCSD 860-93910/5

Matrix: Water

Analysis Batch: 93910

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Alkalinity	250	239.3		mg/L		96	85 - 115	1		20

Lab Sample ID: 880-25684-1 DU

Matrix: Water

Analysis Batch: 93910

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Sample		DU DU	Unit	D	RPD	Limit
	Result	Qualifier					
Alkalinity	696		702.0	mg/L		0.8	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-25684-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 880-25684-1 DU

Matrix: Water

Analysis Batch: 93910

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	696		702.0		mg/L		0.8	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 860-93783/1

Matrix: Water

Analysis Batch: 93783

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			03/13/23 07:00	1

Lab Sample ID: LCS 860-93783/2

Matrix: Water

Analysis Batch: 93783

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	858.0		mg/L		86	80 - 120		

Lab Sample ID: LCSD 860-93783/3

Matrix: Water

Analysis Batch: 93783

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	869.0		mg/L		87	80 - 120	1	10

Lab Sample ID: LLCS 860-93783/4

Matrix: Water

Analysis Batch: 93783

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		86	50 - 150		

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-25684-1 DU

Matrix: Water

Analysis Batch: 93676

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	6.3	HF	6.3		SU		0.5	20
Temperature	19.0	HF	19.0		Celsius		0	20

Eurofins Midland

QC Association Summary

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

Job ID: 880-25684-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 93466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25684-1	Levey Well	Total/NA	Water	8260C	
MB 860-93466/9	Method Blank	Total/NA	Water	8260C	
LCS 860-93466/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-93466/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 93644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25684-1	Levey Well	Total/NA	Water	300.0	
MB 860-93644/3	Method Blank	Total/NA	Water	300.0	
LCS 860-93644/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-93644/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-93644/7	Lab Control Sample	Total/NA	Water	300.0	
880-25684-1 MS	Levey Well	Total/NA	Water	300.0	
880-25684-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 93645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25684-1	Levey Well	Total/NA	Water	300.0	
MB 860-93645/3	Method Blank	Total/NA	Water	300.0	
LCS 860-93645/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-93645/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-93645/6	Lab Control Sample	Total/NA	Water	300.0	
880-25684-1 MS	Levey Well	Total/NA	Water	300.0	
880-25684-1 MSD	Levey Well	Total/NA	Water	300.0	

Metals

Prep Batch: 93741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25684-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-93741/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-93741/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-93741/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-93741/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 93858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25684-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	93741
880-25684-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	93741
MB 860-93741/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	93741
LCS 860-93741/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	93741
LCSD 860-93741/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	93741
LLCS 860-93741/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	93741

General Chemistry

Analysis Batch: 93676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25684-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-25684-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Eurofins Midland

QC Association Summary

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

Job ID: 880-25684-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 93783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25684-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-93783/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-93783/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-93783/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-93783/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 93910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25684-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-93910/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-93910/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-93910/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-25684-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 94220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25684-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-25684-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 03/08/23 10:50
Date Received: 03/08/23 15:34

Lab Sample ID: 880-25684-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	93466	NA	EET HOU	03/10/23 16:16
Total/NA	Analysis	300.0		1	93644	A1S	EET HOU	03/10/23 21:26
Total/NA	Analysis	300.0		1	93645	A1S	EET HOU	03/10/23 21:26
Total Recoverable	Prep	200.7			93741	AGR	EET HOU	03/11/23 13:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	93858	JDM	EET HOU	03/13/23 11:09
Total Recoverable	Prep	200.7			93741	AGR	EET HOU	03/11/23 13:52
Total Recoverable	Analysis	200.7 Rev 4.4		50	93858	JDM	EET HOU	03/13/23 11:37
Total/NA	Analysis	SM 1030E		1	94220	DP	EET HOU	03/15/23 10:44
Total/NA	Analysis	SM 2320B		1	93910	TL	EET HOU	03/13/23 11:53
Total/NA	Analysis	SM 2540C		1	93783	HN	EET HOU	03/13/23 07:00
Total/NA	Analysis	SM 4500 H+ B		1	93676	TL	EET HOU	03/10/23 16:37

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

Accreditation/Certification Summary

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

Job ID: 880-25684-1
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	T104704215-23-50	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: 880-25684-1
SDG: Hobbs NM

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-25684-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25684-1	Levey Well	Water	03/08/23 10:50	03/08/23 15:34

- 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: 25684

www.xenco.com Page 1 of 1

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

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

ANALYSIS REQUEST				Work Order Notes	
Project Name:	Levey Well	Hobbs NM	Turn Around		
Project Number:	03B1417001		Routine ☐		
P.O. Number:	03B1417001		Rush 24 hr		
Sampler's Name:	Shane Diller		Due Date		
SAMPLE RECEIPT Temperature (°C): 53.5.0 Received Intact: (Yes) No Cooler Custody Seals: Yes No (N/A) Sample Custody Seals: Yes No (N/A)					
Temp Blank: Yes No Wet Ice: Yes No Thermometer ID: 536 Correction Factor: -34 Total Containers: 7					
Number of Containers: 7 VOCs: X Anions: F, Cl, SO4, B: X Cations: Ca, K, Mg, Na, Si: X pH: X Alkalinity: X TDS: X					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	
Levey Well	GW	3-8-23	1050	-	
TAT starts the day received by the lab, if received by 4 30pm Sample Comments: 24hr 880-25684 Chain of Custody					

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/8/23			
3		1534			
5					

Revised Date 05/14/18 Rev 2018.1

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-25684-1

SDG Number: Hobbs NM

Login Number: 25684

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: 880-25684-1

SDG Number: Hobbs NM

Login Number: 25684

List Number: 2

Creator: Canadilla, Surelis

List Source: Eurofins Houston

List Creation: 03/10/23 12:11 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?	False	
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	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/21/2023 4:08:36 PM

JOB DESCRIPTION

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

JOB NUMBER

880-25983-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



Generated
3/21/2023 4:08:36 PM

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

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

Laboratory Job ID: 880-25983-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-25983-1
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: 880-25983-1
SDG: Hobbs NM

Job ID: 880-25983-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-25983-1

Receipt

The sample was received on 3/15/2023 1:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC/MS VOA

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

HPLC/IC

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

Metals

Method 200.7: Due to the high concentration of Calcium and Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-94858 and analytical batch 860-95071 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 200.7: Due to the high concentration of Calcium and Magnesium, the matrix spike (MS) for preparation batch 860-94858 and analytical batch 860-95071 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

Method 200.7: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-94858 and analytical batch 860-95071 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

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Client Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-25983-1

Date Collected: 03/15/23 09:05

Matrix: Water

Date Received: 03/15/23 13:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00318		0.00100	0.000533 mg/L			03/17/23 16:07	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			03/17/23 16:07	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			03/17/23 16:07	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			03/17/23 16:07	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			03/17/23 16:07	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			03/17/23 16:07	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			03/17/23 16:07	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			03/17/23 16:07	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			03/17/23 16:07	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			03/17/23 16:07	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			03/17/23 16:07	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			03/17/23 16:07	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			03/17/23 16:07	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			03/17/23 16:07	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			03/17/23 16:07	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			03/17/23 16:07	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			03/17/23 16:07	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			03/17/23 16:07	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			03/17/23 16:07	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			03/17/23 16:07	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			03/17/23 16:07	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			03/17/23 16:07	1
Dichlorodifluoromethane	<0.000919 U		0.00100	0.000919 mg/L			03/17/23 16:07	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			03/17/23 16:07	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			03/17/23 16:07	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			03/17/23 16:07	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			03/17/23 16:07	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			03/17/23 16:07	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			03/17/23 16:07	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			03/17/23 16:07	1
Ethylbenzene	0.0113		0.00100	0.000411 mg/L			03/17/23 16:07	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			03/17/23 16:07	1
Isopropylbenzene	0.00543		0.00100	0.000613 mg/L			03/17/23 16:07	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			03/17/23 16:07	1
m,p-Xylenes	0.0450		0.0100	0.00124 mg/L			03/17/23 16:07	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			03/17/23 16:07	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			03/17/23 16:07	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			03/17/23 16:07	1
N-Propylbenzene	0.00250		0.00100	0.000498 mg/L			03/17/23 16:07	1
o-Xylene	0.00747		0.00100	0.000551 mg/L			03/17/23 16:07	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			03/17/23 16:07	1
sec-Butylbenzene	0.000987 J		0.00100	0.000468 mg/L			03/17/23 16:07	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			03/17/23 16:07	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			03/17/23 16:07	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			03/17/23 16:07	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			03/17/23 16:07	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			03/17/23 16:07	1
Toluene	0.0245		0.00100	0.000475 mg/L			03/17/23 16:07	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			03/17/23 16:07	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 03/15/23 09:05
Date Received: 03/15/23 13:50

Lab Sample ID: 880-25983-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			03/17/23 16:07	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L			03/17/23 16:07	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			03/17/23 16:07	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L			03/17/23 16:07	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L			03/17/23 16:07	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			03/17/23 16:07	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638	mg/L			03/17/23 16:07	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L			03/17/23 16:07	1
1,2,4-Trimethylbenzene	0.0112		0.00100	0.000417	mg/L			03/17/23 16:07	1
1,3,5-Trimethylbenzene	0.00329		0.00100	0.000456	mg/L			03/17/23 16:07	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L			03/17/23 16:07	1
Xylenes, Total	0.0525		0.0100	0.00124	mg/L			03/17/23 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124					03/17/23 16:07	1
Dibromofluoromethane (Surr)	100		75 - 131					03/17/23 16:07	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144					03/17/23 16:07	1
Toluene-d8 (Surr)	99		80 - 117					03/17/23 16:07	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.453	J	0.500	0.0711	mg/L			03/16/23 23:52	1
Nitrate as N	0.0651	J	0.100	0.0391	mg/L			03/16/23 23:52	1
Chloride	220		0.500	0.200	mg/L			03/16/23 23:52	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			03/16/23 23:52	1
Fluoride	0.314	J	0.500	0.100	mg/L			03/16/23 23:52	1
Sulfate	49.2		0.500	0.109	mg/L			03/16/23 23:52	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	224		10.0	5.76	mg/L		03/20/23 09:15	03/20/23 15:05	50
Magnesium	43.1		0.200	0.0428	mg/L		03/20/23 09:15	03/20/23 14:32	1
Potassium	3.66		0.500	0.0914	mg/L		03/20/23 09:15	03/20/23 14:32	1
Sodium	70.0		0.500	0.152	mg/L		03/20/23 09:15	03/20/23 20:29	1
SiO2	54.8		1.07	0.471	mg/L		03/20/23 09:15	03/20/23 14:32	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-12.3				%			03/20/23 13:07	1
Alkalinity (SM 2320B)	691		4.00	4.00	mg/L			03/17/23 11:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	691		4.00	4.00	mg/L			03/17/23 11:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/17/23 11:43	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/17/23 11:43	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/17/23 11:43	1
Total Dissolved Solids (SM 2540C)	1030		10.0	10.0	mg/L			03/17/23 20:00	1
pH (SM 4500 H+ B)	6.3	HF			SU			03/17/23 13:23	1
Temperature (SM 4500 H+ B)	14.8	HF			Degrees C			03/17/23 13:23	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-25983-1
SDG: Hobbs NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
880-25983-1	Levey Well	101	100	102	99
LCS 860-94577/1010	Lab Control Sample	98	102	100	100
LCSD 860-94577/11	Lab Control Sample Dup	98	100	97	99
MB 860-94577/17	Method Blank	105	98	98	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: 880-25983-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-94577/17

Matrix: Water

Analysis Batch: 94577

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			03/17/23 12:42	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			03/17/23 12:42	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			03/17/23 12:42	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			03/17/23 12:42	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			03/17/23 12:42	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			03/17/23 12:42	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			03/17/23 12:42	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			03/17/23 12:42	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			03/17/23 12:42	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			03/17/23 12:42	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			03/17/23 12:42	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			03/17/23 12:42	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			03/17/23 12:42	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			03/17/23 12:42	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			03/17/23 12:42	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			03/17/23 12:42	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			03/17/23 12:42	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			03/17/23 12:42	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			03/17/23 12:42	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			03/17/23 12:42	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/17/23 12:42	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/17/23 12:42	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			03/17/23 12:42	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			03/17/23 12:42	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			03/17/23 12:42	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			03/17/23 12:42	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			03/17/23 12:42	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			03/17/23 12:42	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			03/17/23 12:42	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			03/17/23 12:42	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			03/17/23 12:42	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			03/17/23 12:42	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			03/17/23 12:42	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			03/17/23 12:42	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			03/17/23 12:42	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			03/17/23 12:42	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			03/17/23 12:42	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			03/17/23 12:42	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			03/17/23 12:42	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			03/17/23 12:42	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			03/17/23 12:42	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			03/17/23 12:42	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			03/17/23 12:42	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			03/17/23 12:42	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			03/17/23 12:42	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			03/17/23 12:42	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			03/17/23 12:42	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			03/17/23 12:42	1

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QC Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-94577/17

Matrix: Water

Analysis Batch: 94577

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			03/17/23 12:42	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			03/17/23 12:42	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			03/17/23 12:42	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			03/17/23 12:42	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			03/17/23 12:42	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			03/17/23 12:42	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			03/17/23 12:42	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			03/17/23 12:42	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			03/17/23 12:42	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			03/17/23 12:42	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			03/17/23 12:42	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			03/17/23 12:42	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			03/17/23 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124		03/17/23 12:42	1
Dibromofluoromethane (Surr)	98		75 - 131		03/17/23 12:42	1
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		03/17/23 12:42	1
Toluene-d8 (Surr)	101		80 - 117		03/17/23 12:42	1

Lab Sample ID: LCS 860-94577/1010

Matrix: Water

Analysis Batch: 94577

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	0.05141		mg/L		103	75 - 125
Bromobenzene	0.0500	0.05097		mg/L		102	75 - 125
Bromochloromethane	0.0500	0.05566		mg/L		111	60 - 140
Bromodichloromethane	0.0500	0.05327		mg/L		107	75 - 125
Bromoform	0.0500	0.04968		mg/L		99	70 - 130
Bromomethane	0.0500	0.04456		mg/L		89	60 - 140
2-Butanone	0.250	0.2387		mg/L		95	60 - 140
Carbon tetrachloride	0.0500	0.05379		mg/L		108	70 - 130
Chlorobenzene	0.0500	0.05043		mg/L		101	65 - 135
Chloroethane	0.0500	0.04244		mg/L		85	60 - 140
Chloroform	0.0500	0.05282		mg/L		106	70 - 121
Chloromethane	0.0500	0.05095		mg/L		102	60 - 140
2-Chlorotoluene	0.0500	0.05008		mg/L		100	73 - 125
4-Chlorotoluene	0.0500	0.05043		mg/L		101	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05181		mg/L		104	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05301		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.04711		mg/L		94	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05464		mg/L		109	59 - 125
1,2-Dibromoethane	0.0500	0.05215		mg/L		104	73 - 125
1,2-Dichlorobenzene	0.0500	0.05126		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05079		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.05082		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.04681		mg/L		94	70 - 130

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QC Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-94577/1010

Matrix: Water

Analysis Batch: 94577

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	0.05241		mg/L		105	70 - 130
1,2-Dichloroethane	0.0500	0.05128		mg/L		103	72 - 130
1,1-Dichloroethene	0.0500	0.05536		mg/L		111	50 - 150
1,2-Dichloropropane	0.0500	0.05210		mg/L		104	74 - 125
1,3-Dichloropropane	0.0500	0.05049		mg/L		101	75 - 125
2,2-Dichloropropane	0.0500	0.05209		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.05239		mg/L		105	75 - 125
Ethylbenzene	0.0500	0.05078		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05009		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.05053		mg/L		101	75 - 125
Methylene Chloride	0.0500	0.04981		mg/L		100	75 - 125
m,p-Xylenes	0.0500	0.05115		mg/L		102	75 - 125
MTBE	0.0500	0.05235		mg/L		105	65 - 135
Naphthalene	0.0500	0.05565		mg/L		111	70 - 130
n-Butylbenzene	0.0500	0.05178		mg/L		104	75 - 125
N-Propylbenzene	0.0500	0.04996		mg/L		100	75 - 125
o-Xylene	0.0500	0.05068		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05057		mg/L		101	75 - 125
sec-Butylbenzene	0.0500	0.04973		mg/L		99	75 - 125
Styrene	0.0500	0.05203		mg/L		104	75 - 125
tert-Butylbenzene	0.0500	0.05026		mg/L		101	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05365		mg/L		107	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05054		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.05249		mg/L		105	71 - 125
Toluene	0.0500	0.05107		mg/L		102	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04936		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05308		mg/L		106	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05032		mg/L		101	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05676		mg/L		114	75 - 135
1,1,1-Trichloroethane	0.0500	0.05224		mg/L		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.05135		mg/L		103	70 - 130
Trichloroethene	0.0500	0.05311		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.04845		mg/L		97	60 - 140
1,2,3-Trichloropropane	0.0500	0.05068		mg/L		101	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05046		mg/L		101	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04978		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.04899		mg/L		98	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-94577/11

Matrix: Water

Analysis Batch: 94577

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	0.05165		mg/L		103	75 - 125	0	25
Bromobenzene	0.0500	0.05190		mg/L		104	75 - 125	2	25
Bromochloromethane	0.0500	0.05656		mg/L		113	60 - 140	2	25
Bromodichloromethane	0.0500	0.05377		mg/L		108	75 - 125	1	25
Bromoform	0.0500	0.05127		mg/L		103	70 - 130	3	25
Bromomethane	0.0500	0.04562		mg/L		91	60 - 140	2	25
2-Butanone	0.250	0.2504		mg/L		100	60 - 140	5	25
Carbon tetrachloride	0.0500	0.05483		mg/L		110	70 - 130	2	25
Chlorobenzene	0.0500	0.05190		mg/L		104	65 - 135	3	25
Chloroethane	0.0500	0.04459		mg/L		89	60 - 140	5	25
Chloroform	0.0500	0.05370		mg/L		107	70 - 121	2	25
Chloromethane	0.0500	0.05091		mg/L		102	60 - 140	0	25
2-Chlorotoluene	0.0500	0.05094		mg/L		102	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05167		mg/L		103	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.05292		mg/L		106	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05415		mg/L		108	74 - 125	2	25
Dibromochloromethane	0.0500	0.04853		mg/L		97	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05849		mg/L		117	59 - 125	7	25
1,2-Dibromoethane	0.0500	0.05299		mg/L		106	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05258		mg/L		105	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.05224		mg/L		104	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.05284		mg/L		106	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.04527		mg/L		91	70 - 130	3	25
1,1-Dichloroethane	0.0500	0.05297		mg/L		106	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.05183		mg/L		104	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.05573		mg/L		111	50 - 150	1	25
1,2-Dichloropropane	0.0500	0.05254		mg/L		105	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.05125		mg/L		102	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05234		mg/L		105	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.05257		mg/L		105	75 - 125	0	25
Ethylbenzene	0.0500	0.05209		mg/L		104	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05184		mg/L		104	75 - 125	3	25
Isopropylbenzene	0.0500	0.05170		mg/L		103	75 - 125	2	25
Methylene Chloride	0.0500	0.05022		mg/L		100	75 - 125	1	25
m,p-Xylenes	0.0500	0.05193		mg/L		104	75 - 125	2	25
MTBE	0.0500	0.05384		mg/L		108	65 - 135	3	25
Naphthalene	0.0500	0.06056		mg/L		121	70 - 130	8	25
n-Butylbenzene	0.0500	0.05315		mg/L		106	75 - 125	3	25
N-Propylbenzene	0.0500	0.05129		mg/L		103	75 - 125	3	25
o-Xylene	0.0500	0.05197		mg/L		104	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05153		mg/L		103	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05097		mg/L		102	75 - 125	2	25
Styrene	0.0500	0.05312		mg/L		106	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05118		mg/L		102	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.05454		mg/L		109	72 - 125	2	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.05278		mg/L		106	74 - 125	4	25
Tetrachloroethene	0.0500	0.05323		mg/L		106	71 - 125	1	25
Toluene	0.0500	0.05172		mg/L		103	70 - 130	1	25

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QC Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-94577/11

Matrix: Water

Analysis Batch: 94577

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
trans-1,2-Dichloroethene	0.0500	0.05038		mg/L		101	75 - 125		2	25
trans-1,3-Dichloropropene	0.0500	0.05456		mg/L		109	66 - 125		3	25
1,2,3-Trichlorobenzene	0.0500	0.05365		mg/L		107	75 - 137		6	25
1,2,4-Trichlorobenzene	0.0500	0.05986		mg/L		120	75 - 135		5	25
1,1,1-Trichloroethane	0.0500	0.05344		mg/L		107	70 - 130		2	25
1,1,2-Trichloroethane	0.0500	0.05356		mg/L		107	70 - 130		4	25
Trichloroethene	0.0500	0.05364		mg/L		107	75 - 135		1	25
Trichlorofluoromethane	0.0500	0.04771		mg/L		95	60 - 140		2	25
1,2,3-Trichloropropane	0.0500	0.05560		mg/L		111	75 - 125		9	25
1,2,4-Trimethylbenzene	0.0500	0.05156		mg/L		103	75 - 125		2	25
1,3,5-Trimethylbenzene	0.0500	0.05100		mg/L		102	60 - 140		2	25
Vinyl chloride	0.0500	0.04896		mg/L		98	60 - 140		0	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-94476/3

Matrix: Water

Analysis Batch: 94476

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/16/23 14:00	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/16/23 14:00	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/16/23 14:00	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/16/23 14:00	1

Lab Sample ID: LCS 860-94476/4

Matrix: Water

Analysis Batch: 94476

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	10.53		mg/L		105	90 - 110	
Chloride	10.0	10.14		mg/L		101	90 - 110	
Fluoride	10.0	10.27		mg/L		103	90 - 110	
Sulfate	10.0	10.06		mg/L		101	90 - 110	

Lab Sample ID: LCSD 860-94476/5

Matrix: Water

Analysis Batch: 94476

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Bromide	10.0	10.59		mg/L		106	90 - 110		1	20
Chloride	10.0	10.21		mg/L		102	90 - 110		1	20
Fluoride	10.0	10.35		mg/L		104	90 - 110		1	20

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QC Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-94476/5

Matrix: Water

Analysis Batch: 94476

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	10.16		mg/L		102	90 - 110	1	20

Lab Sample ID: LLCS 860-94476/7

Matrix: Water

Analysis Batch: 94476

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	0.6231		mg/L		125	50 - 150		
Chloride	0.500	0.5809		mg/L		116	50 - 150		
Fluoride	0.500	0.5254		mg/L		105	50 - 150		
Sulfate	0.500	0.5321		mg/L		106	50 - 150		

Lab Sample ID: MB 860-94477/3

Matrix: Water

Analysis Batch: 94477

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/16/23 14:00	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/16/23 14:00	1

Lab Sample ID: LCS 860-94477/4

Matrix: Water

Analysis Batch: 94477

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	10.0	10.09		mg/L		101	80 - 120		
Nitrite as N	10.0	9.772		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-94477/5

Matrix: Water

Analysis Batch: 94477

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.17		mg/L		102	80 - 120	1	20
Nitrite as N	10.0	9.878		mg/L		99	80 - 120	1	20

Lab Sample ID: LLCS 860-94477/6

Matrix: Water

Analysis Batch: 94477

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	0.1362		mg/L		136	50 - 150		
Nitrite as N	0.100	0.07732	J	mg/L		77	50 - 150		

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QC Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-94858/1-A

Matrix: Water

Analysis Batch: 95071

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 94858

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		03/20/23 09:15	03/20/23 13:52	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		03/20/23 09:15	03/20/23 13:52	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		03/20/23 09:15	03/20/23 13:52	1
Sodium	<0.152	U	0.500	0.152 mg/L		03/20/23 09:15	03/20/23 13:52	1
SiO2	<0.471	U	1.07	0.471 mg/L		03/20/23 09:15	03/20/23 13:52	1

Lab Sample ID: LCS 860-94858/2-A

Matrix: Water

Analysis Batch: 95071

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 94858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	22.60		mg/L		90	85 - 115
Magnesium	25.0	22.10		mg/L		88	85 - 115
Potassium	10.0	9.020		mg/L		90	85 - 115
Sodium	25.0	22.00		mg/L		88	85 - 115
SiO2	21.4	19.92		mg/L		93	85 - 115

Lab Sample ID: LCSD 860-94858/3-A

Matrix: Water

Analysis Batch: 95071

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 94858

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	22.90		mg/L		92	85 - 115	1	20
Magnesium	25.0	22.60		mg/L		90	85 - 115	2	20
Potassium	10.0	9.140		mg/L		91	85 - 115	1	20
Sodium	25.0	22.40		mg/L		90	85 - 115	2	20
SiO2	21.4	20.22		mg/L		95	85 - 115	1	20

Lab Sample ID: LLCS 860-94858/4-A

Matrix: Water

Analysis Batch: 95071

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 94858

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2160		mg/L		108	50 - 150
Magnesium	0.200	0.1980	J	mg/L		99	50 - 150
Potassium	0.500	0.5240		mg/L		105	50 - 150
Sodium	0.500	0.5030		mg/L		101	50 - 150
SiO2	1.07	1.102		mg/L		103	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-94720/3

Matrix: Water

Analysis Batch: 94720

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			03/17/23 11:13	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/17/23 11:13	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/17/23 11:13	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			03/17/23 11:13	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-94720/3

Matrix: Water

Analysis Batch: 94720

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			03/17/23 11:13	1

Lab Sample ID: LCS 860-94720/4

Matrix: Water

Analysis Batch: 94720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	234.3		mg/L		94	85 - 115

Lab Sample ID: LCSD 860-94720/5

Matrix: Water

Analysis Batch: 94720

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	238.1		mg/L		95	85 - 115	2	20

Lab Sample ID: 880-25983-1 DU

Matrix: Water

Analysis Batch: 94720

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	691		703.9		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	691		703.9		mg/L		2	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-94764/1

Matrix: Water

Analysis Batch: 94764

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			03/17/23 20:00	1

Lab Sample ID: LCS 860-94764/2

Matrix: Water

Analysis Batch: 94764

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	823.0		mg/L		82	80 - 120

Lab Sample ID: LCSD 860-94764/3

Matrix: Water

Analysis Batch: 94764

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	816.0		mg/L		82	80 - 120	1	10

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QC Sample Results

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

Job ID: 880-25983-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-94764/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 94764							
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		80	50 - 150

QC Association Summary

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

Job ID: 880-25983-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 94577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25983-1	Levey Well	Total/NA	Water	8260C	
MB 860-94577/17	Method Blank	Total/NA	Water	8260C	
LCS 860-94577/1010	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-94577/11	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 94476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25983-1	Levey Well	Total/NA	Water	300.0	
MB 860-94476/3	Method Blank	Total/NA	Water	300.0	
LCS 860-94476/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-94476/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-94476/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 94477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25983-1	Levey Well	Total/NA	Water	300.0	
MB 860-94477/3	Method Blank	Total/NA	Water	300.0	
LCS 860-94477/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-94477/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-94477/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 94858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25983-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-94858/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-94858/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-94858/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-94858/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 95071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25983-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	94858
880-25983-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	94858
880-25983-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	94858
MB 860-94858/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	94858
LCS 860-94858/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	94858
LCSD 860-94858/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	94858
LLCS 860-94858/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	94858

General Chemistry

Analysis Batch: 94699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25983-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 94720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25983-1	Levey Well	Total/NA	Water	SM 2320B	

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QC Association Summary

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

Job ID: 880-25983-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 94720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-94720/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-94720/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-94720/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-25983-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 94764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25983-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-94764/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-94764/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-94764/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-94764/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 94930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25983-1	Levey Well	Total/NA	Water	SM 1030E	

- 1
- 2
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Lab Chronicle

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

Job ID: 880-25983-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-25983-1
Date Collected: 03/15/23 09:05 Matrix: Water
Date Received: 03/15/23 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	94577	TTD	EET HOU	03/17/23 16:07
Total/NA	Analysis	300.0		1	94476	A1S	EET HOU	03/16/23 23:52
Total/NA	Analysis	300.0		1	94477	A1S	EET HOU	03/16/23 23:52
Total Recoverable	Prep	200.7			94858	MD	EET HOU	03/20/23 09:15
Total Recoverable	Analysis	200.7 Rev 4.4		1	95071	JDM	EET HOU	03/20/23 14:32
Total Recoverable	Prep	200.7			94858	MD	EET HOU	03/20/23 09:15
Total Recoverable	Analysis	200.7 Rev 4.4		50	95071	JDM	EET HOU	03/20/23 15:05
Total Recoverable	Prep	200.7			94858	MD	EET HOU	03/20/23 09:15
Total Recoverable	Analysis	200.7 Rev 4.4		1	95071	JDM	EET HOU	03/20/23 20:29
Total/NA	Analysis	SM 1030E		1	94930	AA	EET HOU	03/20/23 13:07
Total/NA	Analysis	SM 2320B		1	94720	TL	EET HOU	03/17/23 11:43
Total/NA	Analysis	SM 2540C		1	94764	HN	EET HOU	03/17/23 20:00
Total/NA	Analysis	SM 4500 H+ B		1	94699	TL	EET HOU	03/17/23 13:23

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

Accreditation/Certification Summary

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

Job ID: 880-25983-1
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	T104704215-23-50	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: 880-25983-1
SDG: Hobbs NM

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

Protocol References:
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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

Sample Summary

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

Job ID: 880-25983-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25983-1	Levey Well	Water	03/15/23 09:05	03/15/23 13:50

- 1
- 2
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Chain of Custody

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

Work Order No: 25963

www.xenco.com Page 1 of 1

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

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

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

SAMPLE RECEIPT	
Temperature (°C):	Temp Blank: ☒ Yes ☒ No
Received Intact:	Thermometer ID: ☒ Yes ☒ No
Cooler Custody Seals:	Correction Factor: ☒ Yes ☒ No
Sample Custody Seals:	Total Containers: ☒ 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	Work Order Notes
Levey Well	GW	3-15-23	0905	—	7	X	X	X	X	X	X	
TAT starts the day received by the lab, if received by 4:30pm												
Sample Comments												
24hr												



880-25983 Chain of Custody

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3/15/23			
		1550			

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

Chain of Custody Record

 eurofins

Environment Testing

Client Information (Sub Contract Lab)				Carrier Tracking No(s): 880-6541 1 State of Origin: New Mexico Page 1 of 1	
Lab PM: Kramer Jessica E-Mail: Jessica.Kramer@eurofins.com Phone: Jessica.Kramer@eurofins.com Accreditations Required (See note) NELAP Texas				Job #: 880-25983-1 Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Anchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other	
Due Date Requested: 3/17/2023 TAT Requested (days): PO #: 281-240-4200(Tel) WFO #: 88000024 Project #: 88000024 SOW#:				Special Instructions/Note: Total Number of Containers: 7	
Sample Identification Client ID (Lab ID) Levey Well (880-25983-1)				Special Instructions/Note: Total Number of Containers: 7	
Sample Date: 3/15/23 Sample Time: 09:05 Mountain Sample Type: (C=Comp, G=grab) Matrix: Water Preservation Code:				Special Instructions/Note: Total Number of Containers: 7	
Analysis Requested: 200.7/200.7_P_LR (MOD) Custom List 300_ORGFM/NO2, NO3 5M4500_H+/PH 25400_Calcid/ TDS 2320B/ Alkalinity Cation, Anion/ (MOD) Copy Analytes				Special Instructions/Note: Total Number of Containers: 7	
Field Filtered Sample (Yes or No) Platform MS/MSD (Yes or No) 8280C/6030C (MOD) Full List VOCs 300_ORGFM/28P/Br, Cl, F, SO4 300_ORGFM/NO2, NO3 5M4500_H+/PH 25400_Calcid/ TDS 2320B/ Alkalinity Cation, Anion/ (MOD) Copy Analytes				Special Instructions/Note: Total Number of Containers: 7	
Due Date Requested: 3/17/2023 TAT Requested (days): PO #: 281-240-4200(Tel) WFO #: 88000024 Project #: 88000024 SOW#:				Special Instructions/Note: Total Number of Containers: 7	
Sample Date: 3/15/23 Sample Time: 09:05 Mountain Sample Type: (C=Comp, G=grab) Matrix: Water Preservation Code:				Special Instructions/Note: Total Number of Containers: 7	
Analysis Requested: 200.7/200.7_P_LR (MOD) Custom List 300_ORGFM/NO2, NO3 5M4500_H+/PH 25400_Calcid/ TDS 2320B/ Alkalinity Cation, Anion/ (MOD) Copy Analytes				Special Instructions/Note: Total Number of Containers: 7	
Field Filtered Sample (Yes or No) Platform MS/MSD (Yes or No) 8280C/6030C (MOD) Full List VOCs 300_ORGFM/28P/Br, Cl, F, SO4 300_ORGFM/NO2, NO3 5M4500_H+/PH 25400_Calcid/ TDS 2320B/ Alkalinity Cation, Anion/ (MOD) Copy Analytes				Special Instructions/Note: Total Number of Containers: 7	

Possible Hazard Identification

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

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

Relinquished by: **[Signature]** Date: **3/17/2023**

Relinquished by: **FedEX** Date: **3/17/2023**

Relinquished by: **FedEX** Date: **3/17/2023**

Custody Seals Intact: **Yes** **Δ** **No**

Custody Seal No. **IR ID: HOU-344**

Cooler Temperature(s) °C and Other Remarks: **C/F: -0.2/1.4**

Corrected Temp: **17**

Ver-06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-25983-1

SDG Number: Hobbs NM

Login Number: 25983

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: 880-25983-1

SDG Number: Hobbs NM

Login Number: 25983

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 03/16/23 06:25 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/29/2023 10:43:06 AM

JOB DESCRIPTION

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

JOB NUMBER

880-26320-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



Generated
3/29/2023 10:43:06 AM

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

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

Laboratory Job ID: 880-26320-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-26320-1
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
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

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

General Chemistry

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

Glossary

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

Eurofins Midland

Case Narrative

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

Job ID: 880-26320-1
SDG: Hobbs NM

Job ID: 880-26320-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-26320-1

Receipt

The sample was received on 3/24/2023 8:27 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

GC/MS VOA

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-96014 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified. Note, The continuing calibration verification was within control limits. And the associated samples were not detected (ND)

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-96014 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFMS: The following sample was received outside of holding time: Levey Well (880-26320-1).

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 860-95963 and analytical batch 860-96148 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-26320-1

Date Collected: 03/23/23 11:15

Matrix: Water

Date Received: 03/24/23 08:27

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00278		0.00100	0.000533 mg/L			03/28/23 05:23	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			03/28/23 05:23	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			03/28/23 05:23	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			03/28/23 05:23	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			03/28/23 05:23	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			03/28/23 05:23	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			03/28/23 05:23	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			03/28/23 05:23	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			03/28/23 05:23	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			03/28/23 05:23	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			03/28/23 05:23	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			03/28/23 05:23	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			03/28/23 05:23	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			03/28/23 05:23	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			03/28/23 05:23	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			03/28/23 05:23	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			03/28/23 05:23	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			03/28/23 05:23	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			03/28/23 05:23	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			03/28/23 05:23	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			03/28/23 05:23	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			03/28/23 05:23	1
Dichlorodifluoromethane	<0.000919 U *		0.00100	0.000919 mg/L			03/28/23 05:23	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			03/28/23 05:23	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			03/28/23 05:23	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			03/28/23 05:23	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			03/28/23 05:23	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			03/28/23 05:23	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			03/28/23 05:23	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			03/28/23 05:23	1
Ethylbenzene	0.0103		0.00100	0.000411 mg/L			03/28/23 05:23	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			03/28/23 05:23	1
Isopropylbenzene	0.00513		0.00100	0.000613 mg/L			03/28/23 05:23	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			03/28/23 05:23	1
m,p-Xylenes	0.0393		0.0100	0.00124 mg/L			03/28/23 05:23	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			03/28/23 05:23	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			03/28/23 05:23	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			03/28/23 05:23	1
N-Propylbenzene	0.00224		0.00100	0.000498 mg/L			03/28/23 05:23	1
o-Xylene	0.00617		0.00100	0.000551 mg/L			03/28/23 05:23	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			03/28/23 05:23	1
sec-Butylbenzene	0.000873 J		0.00100	0.000468 mg/L			03/28/23 05:23	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			03/28/23 05:23	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			03/28/23 05:23	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			03/28/23 05:23	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			03/28/23 05:23	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			03/28/23 05:23	1
Toluene	0.0219		0.00100	0.000475 mg/L			03/28/23 05:23	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			03/28/23 05:23	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-26320-1

Date Collected: 03/23/23 11:15

Matrix: Water

Date Received: 03/24/23 08:27

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			03/28/23 05:23	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			03/28/23 05:23	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			03/28/23 05:23	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			03/28/23 05:23	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			03/28/23 05:23	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			03/28/23 05:23	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			03/28/23 05:23	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			03/28/23 05:23	1
1,2,4-Trimethylbenzene	0.00930		0.00100	0.000417 mg/L			03/28/23 05:23	1
1,3,5-Trimethylbenzene	0.00289		0.00100	0.000456 mg/L			03/28/23 05:23	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			03/28/23 05:23	1
Xylenes, Total	0.0455		0.0100	0.00124 mg/L			03/28/23 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		03/28/23 05:23	1
Dibromofluoromethane (Surr)	99		75 - 131		03/28/23 05:23	1
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		03/28/23 05:23	1
Toluene-d8 (Surr)	103		80 - 117		03/28/23 05:23	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.454	J	0.500	0.0711 mg/L			03/25/23 19:29	1
Nitrate as N	0.0721	J H	0.100	0.0391 mg/L			03/25/23 19:29	1
Chloride	221		0.500	0.200 mg/L			03/25/23 19:29	1
Nitrite as N	<0.0293	U H	0.100	0.0293 mg/L			03/25/23 19:29	1
Fluoride	0.896		0.500	0.100 mg/L			03/25/23 19:29	1
Sulfate	50.7		0.500	0.109 mg/L			03/25/23 19:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	248		10.0	5.76 mg/L		03/27/23 10:30	03/27/23 23:32	50
Magnesium	51.3		0.200	0.0428 mg/L		03/27/23 10:30	03/27/23 23:14	1
Potassium	4.11		0.500	0.0914 mg/L		03/27/23 10:30	03/27/23 23:14	1
Sodium	91.2		0.500	0.152 mg/L		03/27/23 10:30	03/28/23 11:54	1
SiO2	65.1		1.07	0.471 mg/L		03/27/23 10:30	03/27/23 23:14	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-0.0255			%			03/28/23 08:39	1
Alkalinity (SM 2320B)	689		4.00	4.00 mg/L			03/27/23 13:45	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	689		4.00	4.00 mg/L			03/27/23 13:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			03/27/23 13:45	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			03/27/23 13:45	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			03/27/23 13:45	1
Total Dissolved Solids (SM 2540C)	1190		10.0	10.0 mg/L			03/27/23 21:49	1
pH (SM 4500 H+ B)	6.5	HF		SU			03/28/23 13:35	1
Temperature (SM 4500 H+ B)	17.7	HF		Degrees C			03/28/23 13:35	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-26320-1
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 (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
880-26320-1	Levey Well	101	99	96	103
LCS 860-96014/3	Lab Control Sample	100	100	95	99
LCSD 860-96014/4	Lab Control Sample Dup	99	101	95	98
MB 860-96014/9	Method Blank	103	101	95	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-96014/9

Matrix: Water

Analysis Batch: 96014

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			03/27/23 22:32	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			03/27/23 22:32	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			03/27/23 22:32	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			03/27/23 22:32	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			03/27/23 22:32	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			03/27/23 22:32	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			03/27/23 22:32	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			03/27/23 22:32	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			03/27/23 22:32	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			03/27/23 22:32	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			03/27/23 22:32	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			03/27/23 22:32	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			03/27/23 22:32	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			03/27/23 22:32	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			03/27/23 22:32	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			03/27/23 22:32	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			03/27/23 22:32	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			03/27/23 22:32	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			03/27/23 22:32	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			03/27/23 22:32	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/27/23 22:32	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/27/23 22:32	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			03/27/23 22:32	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			03/27/23 22:32	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			03/27/23 22:32	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			03/27/23 22:32	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			03/27/23 22:32	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			03/27/23 22:32	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			03/27/23 22:32	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			03/27/23 22:32	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			03/27/23 22:32	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			03/27/23 22:32	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			03/27/23 22:32	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			03/27/23 22:32	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			03/27/23 22:32	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			03/27/23 22:32	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			03/27/23 22:32	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			03/27/23 22:32	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			03/27/23 22:32	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			03/27/23 22:32	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			03/27/23 22:32	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			03/27/23 22:32	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			03/27/23 22:32	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			03/27/23 22:32	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			03/27/23 22:32	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			03/27/23 22:32	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			03/27/23 22:32	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			03/27/23 22:32	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-96014/9

Matrix: Water

Analysis Batch: 96014

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			03/27/23 22:32	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			03/27/23 22:32	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			03/27/23 22:32	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			03/27/23 22:32	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			03/27/23 22:32	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			03/27/23 22:32	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			03/27/23 22:32	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			03/27/23 22:32	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			03/27/23 22:32	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			03/27/23 22:32	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			03/27/23 22:32	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			03/27/23 22:32	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			03/27/23 22:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		03/27/23 22:32	1
Dibromofluoromethane (Surr)	101		75 - 131		03/27/23 22:32	1
1,2-Dichloroethane-d4 (Surr)	95		63 - 144		03/27/23 22:32	1
Toluene-d8 (Surr)	100		80 - 117		03/27/23 22:32	1

Lab Sample ID: LCS 860-96014/3

Matrix: Water

Analysis Batch: 96014

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	0.05579		mg/L		112	75 - 125
Bromobenzene	0.0500	0.05580		mg/L		112	75 - 125
Bromochloromethane	0.0500	0.05528		mg/L		111	60 - 140
Bromodichloromethane	0.0500	0.05402		mg/L		108	75 - 125
Bromoform	0.0500	0.05357		mg/L		107	70 - 130
Bromomethane	0.0500	0.04415		mg/L		88	60 - 140
2-Butanone	0.250	0.2737		mg/L		109	60 - 140
Carbon tetrachloride	0.0500	0.05430		mg/L		109	70 - 130
Chlorobenzene	0.0500	0.05657		mg/L		113	65 - 135
Chloroethane	0.0500	0.04797		mg/L		96	60 - 140
Chloroform	0.0500	0.05578		mg/L		112	70 - 121
Chloromethane	0.0500	0.04010		mg/L		80	60 - 140
2-Chlorotoluene	0.0500	0.05551		mg/L		111	73 - 125
4-Chlorotoluene	0.0500	0.05603		mg/L		112	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05518		mg/L		110	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05396		mg/L		108	74 - 125
Dibromochloromethane	0.0500	0.05418		mg/L		108	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05337		mg/L		107	59 - 125
1,2-Dibromoethane	0.0500	0.05466		mg/L		109	73 - 125
1,2-Dichlorobenzene	0.0500	0.05565		mg/L		111	75 - 125
1,3-Dichlorobenzene	0.0500	0.05557		mg/L		111	75 - 125
1,4-Dichlorobenzene	0.0500	0.05457		mg/L		109	75 - 125
Dichlorodifluoromethane	0.0500	0.02650	*-	mg/L		53	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-96014/3

Matrix: Water

Analysis Batch: 96014

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	0.05519		mg/L		110	70 - 130
1,2-Dichloroethane	0.0500	0.05362		mg/L		107	72 - 130
1,1-Dichloroethene	0.0500	0.05633		mg/L		113	50 - 150
1,2-Dichloropropane	0.0500	0.05447		mg/L		109	74 - 125
1,3-Dichloropropane	0.0500	0.05369		mg/L		107	75 - 125
2,2-Dichloropropane	0.0500	0.05262		mg/L		105	75 - 125
1,1-Dichloropropene	0.0500	0.05550		mg/L		111	75 - 125
Ethylbenzene	0.0500	0.05652		mg/L		113	75 - 125
Hexachlorobutadiene	0.0500	0.05856		mg/L		117	75 - 125
Isopropylbenzene	0.0500	0.05639		mg/L		113	75 - 125
Methylene Chloride	0.0500	0.05203		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.05617		mg/L		112	75 - 125
MTBE	0.0500	0.05459		mg/L		109	65 - 135
Naphthalene	0.0500	0.05881		mg/L		118	70 - 130
n-Butylbenzene	0.0500	0.05541		mg/L		111	75 - 125
N-Propylbenzene	0.0500	0.05579		mg/L		112	75 - 125
o-Xylene	0.0500	0.05579		mg/L		112	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05605		mg/L		112	75 - 125
sec-Butylbenzene	0.0500	0.05536		mg/L		111	75 - 125
Styrene	0.0500	0.05579		mg/L		112	75 - 125
tert-Butylbenzene	0.0500	0.05542		mg/L		111	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05622		mg/L		112	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05271		mg/L		105	74 - 125
Tetrachloroethene	0.0500	0.05639		mg/L		113	71 - 125
Toluene	0.0500	0.05545		mg/L		111	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05701		mg/L		114	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05347		mg/L		107	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05865		mg/L		117	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05743		mg/L		115	75 - 135
1,1,1-Trichloroethane	0.0500	0.05526		mg/L		111	70 - 130
1,1,2-Trichloroethane	0.0500	0.05363		mg/L		107	70 - 130
Trichloroethene	0.0500	0.05751		mg/L		115	75 - 135
Trichlorofluoromethane	0.0500	0.04819		mg/L		96	60 - 140
1,2,3-Trichloropropane	0.0500	0.05220		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05537		mg/L		111	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05548		mg/L		111	60 - 140
Vinyl chloride	0.0500	0.04242		mg/L		85	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-96014/4

Matrix: Water

Analysis Batch: 96014

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	0.05306		mg/L		106	75 - 125	5	25
Bromobenzene	0.0500	0.05259		mg/L		105	75 - 125	6	25
Bromochloromethane	0.0500	0.05336		mg/L		107	60 - 140	4	25
Bromodichloromethane	0.0500	0.05111		mg/L		102	75 - 125	6	25
Bromoform	0.0500	0.04989		mg/L		100	70 - 130	7	25
Bromomethane	0.0500	0.04127		mg/L		83	60 - 140	7	25
2-Butanone	0.250	0.2529		mg/L		101	60 - 140	8	25
Carbon tetrachloride	0.0500	0.05404		mg/L		108	70 - 130	0	25
Chlorobenzene	0.0500	0.05367		mg/L		107	65 - 135	5	25
Chloroethane	0.0500	0.04695		mg/L		94	60 - 140	2	25
Chloroform	0.0500	0.05440		mg/L		109	70 - 121	3	25
Chloromethane	0.0500	0.03769		mg/L		75	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05371		mg/L		107	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05395		mg/L		108	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05307		mg/L		106	75 - 125	4	25
cis-1,3-Dichloropropene	0.0500	0.05142		mg/L		103	74 - 125	5	25
Dibromochloromethane	0.0500	0.05130		mg/L		103	73 - 125	5	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04924		mg/L		98	59 - 125	8	25
1,2-Dibromoethane	0.0500	0.05081		mg/L		102	73 - 125	7	25
1,2-Dichlorobenzene	0.0500	0.05335		mg/L		107	75 - 125	4	25
1,3-Dichlorobenzene	0.0500	0.05317		mg/L		106	75 - 125	4	25
1,4-Dichlorobenzene	0.0500	0.05250		mg/L		105	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.02445	*	mg/L		49	70 - 130	8	25
1,1-Dichloroethane	0.0500	0.05587		mg/L		112	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.05037		mg/L		101	72 - 130	6	25
1,1-Dichloroethene	0.0500	0.05622		mg/L		112	50 - 150	0	25
1,2-Dichloropropane	0.0500	0.05214		mg/L		104	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.05046		mg/L		101	75 - 125	6	25
2,2-Dichloropropane	0.0500	0.05116		mg/L		102	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.05431		mg/L		109	75 - 125	2	25
Ethylbenzene	0.0500	0.05375		mg/L		107	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.05590		mg/L		112	75 - 125	5	25
Isopropylbenzene	0.0500	0.05397		mg/L		108	75 - 125	4	25
Methylene Chloride	0.0500	0.05025		mg/L		101	75 - 125	3	25
m,p-Xylenes	0.0500	0.05437		mg/L		109	75 - 125	3	25
MTBE	0.0500	0.05237		mg/L		105	65 - 135	4	25
Naphthalene	0.0500	0.05792		mg/L		116	70 - 130	2	25
n-Butylbenzene	0.0500	0.05409		mg/L		108	75 - 125	2	25
N-Propylbenzene	0.0500	0.05402		mg/L		108	75 - 125	3	25
o-Xylene	0.0500	0.05384		mg/L		108	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05368		mg/L		107	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05309		mg/L		106	75 - 125	4	25
Styrene	0.0500	0.05367		mg/L		107	75 - 125	4	25
tert-Butylbenzene	0.0500	0.05319		mg/L		106	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.05307		mg/L		106	72 - 125	6	25
1,1,2,2-Tetrachloroethane	0.0500	0.04776		mg/L		96	74 - 125	10	25
Tetrachloroethene	0.0500	0.05495		mg/L		110	71 - 125	3	25
Toluene	0.0500	0.05367		mg/L		107	70 - 130	3	25

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QC Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-96014/4

Matrix: Water

Analysis Batch: 96014

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
trans-1,2-Dichloroethene	0.0500	0.05645		mg/L		113	75 - 125		1	25
trans-1,3-Dichloropropene	0.0500	0.05024		mg/L		100	66 - 125		6	25
1,2,3-Trichlorobenzene	0.0500	0.05778		mg/L		116	75 - 137		1	25
1,2,4-Trichlorobenzene	0.0500	0.05673		mg/L		113	75 - 135		1	25
1,1,1-Trichloroethane	0.0500	0.05475		mg/L		110	70 - 130		1	25
1,1,2-Trichloroethane	0.0500	0.04978		mg/L		100	70 - 130		7	25
Trichloroethene	0.0500	0.05579		mg/L		112	75 - 135		3	25
Trichlorofluoromethane	0.0500	0.04776		mg/L		96	60 - 140		1	25
1,2,3-Trichloropropane	0.0500	0.04492		mg/L		90	75 - 125		15	25
1,2,4-Trimethylbenzene	0.0500	0.05320		mg/L		106	75 - 125		4	25
1,3,5-Trimethylbenzene	0.0500	0.05287		mg/L		106	60 - 140		5	25
Vinyl chloride	0.0500	0.04008		mg/L		80	60 - 140		6	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-95888/3

Matrix: Water

Analysis Batch: 95888

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/25/23 16:48	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/25/23 16:48	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/25/23 16:48	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/25/23 16:48	1

Lab Sample ID: LCS 860-95888/4

Matrix: Water

Analysis Batch: 95888

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	10.37		mg/L		104	90 - 110	
Chloride	10.0	9.847		mg/L		98	90 - 110	
Fluoride	10.0	9.990		mg/L		100	90 - 110	
Sulfate	10.0	9.217		mg/L		92	90 - 110	

Lab Sample ID: LCSD 860-95888/5

Matrix: Water

Analysis Batch: 95888

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Bromide	10.0	10.40		mg/L		104	90 - 110		0	20
Chloride	10.0	9.892		mg/L		99	90 - 110		0	20
Fluoride	10.0	10.04		mg/L		100	90 - 110		1	20

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QC Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-95888/5

Matrix: Water

Analysis Batch: 95888

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	9.264		mg/L		93	90 - 110	1	20

Lab Sample ID: LLCS 860-95888/7

Matrix: Water

Analysis Batch: 95888

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	0.6107		mg/L		122	50 - 150		
Chloride	0.500	0.5530		mg/L		111	50 - 150		
Fluoride	0.500	0.4781	J	mg/L		96	50 - 150		
Sulfate	0.500	0.4662	J	mg/L		93	50 - 150		

Lab Sample ID: MB 860-95889/3

Matrix: Water

Analysis Batch: 95889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/25/23 16:48	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/25/23 16:48	1

Lab Sample ID: LCS 860-95889/4

Matrix: Water

Analysis Batch: 95889

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	9.896		mg/L		99	80 - 120		
Nitrite as N	10.0	9.091		mg/L		91	80 - 120		

Lab Sample ID: LCSD 860-95889/5

Matrix: Water

Analysis Batch: 95889

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	9.942		mg/L		99	80 - 120	0	20
Nitrite as N	10.0	9.161		mg/L		92	80 - 120	1	20

Lab Sample ID: LLCS 860-95889/6

Matrix: Water

Analysis Batch: 95889

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	0.1303		mg/L		130	50 - 150		
Nitrite as N	0.100	0.07389	J	mg/L		74	50 - 150		

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QC Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-95963/1-A
Matrix: Water
Analysis Batch: 96148

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 95963

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		03/27/23 10:30	03/27/23 22:35	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		03/27/23 10:30	03/27/23 22:35	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		03/27/23 10:30	03/27/23 22:35	1
SiO2	<0.471	U	1.07	0.471 mg/L		03/27/23 10:30	03/27/23 22:35	1

Lab Sample ID: MB 860-95963/1-A
Matrix: Water
Analysis Batch: 96189

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 95963

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<0.152	U	0.500	0.152 mg/L		03/27/23 10:30	03/28/23 11:37	1

Lab Sample ID: LCS 860-95963/2-A
Matrix: Water
Analysis Batch: 96148

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 95963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.70		mg/L		99	85 - 115
Magnesium	25.0	24.40		mg/L		98	85 - 115
Potassium	10.0	9.560		mg/L		96	85 - 115
SiO2	21.4	21.38		mg/L		100	85 - 115

Lab Sample ID: LCS 860-95963/2-A
Matrix: Water
Analysis Batch: 96189

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 95963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	25.0	25.20		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-95963/3-A
Matrix: Water
Analysis Batch: 96148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 95963

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.60		mg/L		98	85 - 115	0	20
Magnesium	25.0	24.40		mg/L		98	85 - 115	0	20
Potassium	10.0	9.550		mg/L		96	85 - 115	0	20
SiO2	21.4	21.61		mg/L		101	85 - 115	1	20

Lab Sample ID: LCSD 860-95963/3-A
Matrix: Water
Analysis Batch: 96189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 95963

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

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QC Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-95963/4-A

Matrix: Water

Analysis Batch: 96148

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 95963

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							50 - 150	50 - 150
Calcium	0.200	0.2220		mg/L		111		
Magnesium	0.200	0.2040		mg/L		102		
Potassium	0.500	0.5080		mg/L		102		
SiO2	1.07	1.160		mg/L		108		

Lab Sample ID: LLCS 860-95963/4-A

Matrix: Water

Analysis Batch: 96189

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 95963

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							50 - 150	50 - 150
Sodium	0.500	0.5570		mg/L		111		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-96040/3

Matrix: Water

Analysis Batch: 96040

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	mg/L			03/27/23 11:36	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			03/27/23 11:36	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			03/27/23 11:36	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			03/27/23 11:36	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			03/27/23 11:36	1

Lab Sample ID: LCS 860-96040/4

Matrix: Water

Analysis Batch: 96040

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							85 - 115	85 - 115
Alkalinity	250	245.5		mg/L		98		

Lab Sample ID: LCSD 860-96040/5

Matrix: Water

Analysis Batch: 96040

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
Alkalinity	250	246.0		mg/L		98	85 - 115		0	20

Lab Sample ID: 880-26320-1 DU

Matrix: Water

Analysis Batch: 96040

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Sample		DU DU	Unit	D	RPD	Limit
	Result	Qualifier					
Alkalinity	689		664.0	mg/L		4	20
Bicarbonate Alkalinity as CaCO3	689		664.0	mg/L		4	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	mg/L		NC	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-26320-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-96089/1

Matrix: Water

Analysis Batch: 96089

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			03/27/23 21:49	1

Lab Sample ID: LCS 860-96089/2

Matrix: Water

Analysis Batch: 96089

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	1015		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-96089/3

Matrix: Water

Analysis Batch: 96089

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	983.0		mg/L		98	80 - 120	3	10

Lab Sample ID: LLCS 860-96089/4

Matrix: Water

Analysis Batch: 96089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: 880-26320-1 DU

Matrix: Water

Analysis Batch: 96089

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1190		1215		mg/L		2	10

QC Association Summary

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

Job ID: 880-26320-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 96014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total/NA	Water	8260C	
MB 860-96014/9	Method Blank	Total/NA	Water	8260C	
LCS 860-96014/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-96014/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 95888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total/NA	Water	300.0	
MB 860-95888/3	Method Blank	Total/NA	Water	300.0	
LCS 860-95888/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95888/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95888/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 95889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total/NA	Water	300.0	
MB 860-95889/3	Method Blank	Total/NA	Water	300.0	
LCS 860-95889/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95889/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95889/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 95963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-95963/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-95963/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-95963/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-95963/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 96148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	95963
880-26320-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	95963
MB 860-95963/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	95963
LCS 860-95963/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	95963
LCSD 860-95963/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	95963
LLCS 860-95963/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	95963

Analysis Batch: 96189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	95963
MB 860-95963/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	95963
LCS 860-95963/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	95963
LCSD 860-95963/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	95963
LLCS 860-95963/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	95963

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QC Association Summary

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

Job ID: 880-26320-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 96040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-96040/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-96040/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-96040/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-26320-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 96089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-96089/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-96089/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-96089/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-96089/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-26320-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 96125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 96204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26320-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

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

Job ID: 880-26320-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-26320-1

Date Collected: 03/23/23 11:15

Matrix: Water

Date Received: 03/24/23 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	96014	NA	EET HOU	03/28/23 05:23
Total/NA	Analysis	300.0		1	95888	W1N	EET HOU	03/25/23 19:29
Total/NA	Analysis	300.0		1	95889	W1N	EET HOU	03/25/23 19:29
Total Recoverable	Prep	200.7			95963	MD	EET HOU	03/27/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	96148	JDM	EET HOU	03/27/23 23:14
Total Recoverable	Prep	200.7			95963	MD	EET HOU	03/27/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	96148	JDM	EET HOU	03/27/23 23:32
Total Recoverable	Prep	200.7			95963	MD	EET HOU	03/27/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	96189	JDM	EET HOU	03/28/23 11:54
Total/NA	Analysis	SM 1030E		1	96125	SC	EET HOU	03/28/23 08:39
Total/NA	Analysis	SM 2320B		1	96040	TL	EET HOU	03/27/23 13:45
Total/NA	Analysis	SM 2540C		1	96089	YGG	EET HOU	03/27/23 21:49
Total/NA	Analysis	SM 4500 H+ B		1	96204	TL	EET HOU	03/28/23 13:35

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

Accreditation/Certification Summary

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

Job ID: 880-26320-1
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	T104704215-23-50	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: 880-26320-1
SDG: Hobbs NM

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

Protocol References:
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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

Sample Summary

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

Job ID: 880-26320-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26320-1	Levey Well	Water	03/23/23 11:15	03/24/23 08:27

- 1
- 2
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- 12
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- 14



Chain of Custody

Work Order No: 20320

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3333
Midland, TX (432) 704-5440 El Paso, TX (915) 565-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 233-3927
Hobbs, NM (505) 392-7550

www.xenco.com Page 1 of 1

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

Work Order Comments	
Program: UST/ST ☐ 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	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):	0403			Thermometer ID					
Received Intact:	Yes			No	TAR				
Cooler Custody Seals:	Yes			No	N/A				
Sample Custody Seals:	Yes			No	N/A				
				Correction Factor:		-3.3			
				Total Containers:					

Number of Containers

F, Cl, SO4, B

Ca, K, Mg, Na, Si

Y

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions	Cations	pH	Alkalinity	TDS	Sample Comments	
Levey Well	GW	3-23-23	1115	-	7	X	X	X	X	X	X	24hr	
<i>N=4</i> <i>3.33</i> <i>2.3</i>													
													
860-26320 Chain of Custody													

880-26320 Chain of Custody



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

Sample Comments

24hr

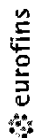
Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti II	1631 / 2A5 I 17470 / 2A74

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3/24/23			
		8:27			

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

Chain of Custody Record



Environmental Test' and

[illegible]

06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-26320-1

SDG Number: Hobbs NM

Login Number: 26320

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-26320-1

SDG Number: Hobbs NM

Login Number: 26320

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 03/25/23 12:50 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/5/2023 11:48:04 AM

JOB DESCRIPTION

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

JOB NUMBER

880-26543-1

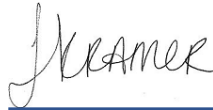
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



Generated
4/5/2023 11:48:04 AM

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

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

Laboratory Job ID: 880-26543-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-26543-1
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
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
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: 880-26543-1
SDG: Hobbs NM

Job ID: 880-26543-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-26543-1

Receipt

The sample was received on 3/29/2023 3:03 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 4.7°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-96671 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFMS: The following sample was analyzed outside of analytical holding time due to lab error: Levey Well (880-26543-1).

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 860-96699 and analytical batch 860-96932 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

General Chemistry

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

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Client Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-26543-1

Date Collected: 03/29/23 10:25

Matrix: Water

Date Received: 03/29/23 15:03

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00274		0.00100	0.000533 mg/L			03/31/23 15:01	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			03/31/23 15:01	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			03/31/23 15:01	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			03/31/23 15:01	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			03/31/23 15:01	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			03/31/23 15:01	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			03/31/23 15:01	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			03/31/23 15:01	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			03/31/23 15:01	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			03/31/23 15:01	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			03/31/23 15:01	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			03/31/23 15:01	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			03/31/23 15:01	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			03/31/23 15:01	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			03/31/23 15:01	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			03/31/23 15:01	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			03/31/23 15:01	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			03/31/23 15:01	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			03/31/23 15:01	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			03/31/23 15:01	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			03/31/23 15:01	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			03/31/23 15:01	1
Dichlorodifluoromethane	<0.000919 U		0.00100	0.000919 mg/L			03/31/23 15:01	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			03/31/23 15:01	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			03/31/23 15:01	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			03/31/23 15:01	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			03/31/23 15:01	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			03/31/23 15:01	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			03/31/23 15:01	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			03/31/23 15:01	1
Ethylbenzene	0.00898		0.00100	0.000411 mg/L			03/31/23 15:01	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			03/31/23 15:01	1
Isopropylbenzene	0.00462		0.00100	0.000613 mg/L			03/31/23 15:01	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			03/31/23 15:01	1
m,p-Xylenes	0.0349		0.0100	0.00124 mg/L			03/31/23 15:01	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			03/31/23 15:01	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			03/31/23 15:01	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			03/31/23 15:01	1
N-Propylbenzene	0.00192		0.00100	0.000498 mg/L			03/31/23 15:01	1
o-Xylene	0.00564		0.00100	0.000551 mg/L			03/31/23 15:01	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			03/31/23 15:01	1
sec-Butylbenzene	0.000857 J		0.00100	0.000468 mg/L			03/31/23 15:01	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			03/31/23 15:01	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			03/31/23 15:01	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			03/31/23 15:01	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			03/31/23 15:01	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			03/31/23 15:01	1
Toluene	0.0197		0.00100	0.000475 mg/L			03/31/23 15:01	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			03/31/23 15:01	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-26543-1

Date Collected: 03/29/23 10:25

Matrix: Water

Date Received: 03/29/23 15:03

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			03/31/23 15:01	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			03/31/23 15:01	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			03/31/23 15:01	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			03/31/23 15:01	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			03/31/23 15:01	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			03/31/23 15:01	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			03/31/23 15:01	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			03/31/23 15:01	1
1,2,4-Trimethylbenzene	0.00798		0.00100	0.000417 mg/L			03/31/23 15:01	1
1,3,5-Trimethylbenzene	0.00246		0.00100	0.000456 mg/L			03/31/23 15:01	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			03/31/23 15:01	1
Xylenes, Total	0.0405		0.0100	0.00124 mg/L			03/31/23 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		03/31/23 15:01	1
Dibromofluoromethane (Surr)	104		75 - 131		03/31/23 15:01	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 144		03/31/23 15:01	1
Toluene-d8 (Surr)	94		80 - 117		03/31/23 15:01	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.438	J	0.500	0.0711 mg/L			03/31/23 12:25	1
Nitrate as N	0.0578	J H	0.100	0.0391 mg/L			03/31/23 12:25	1
Chloride	217		0.500	0.200 mg/L			03/31/23 12:25	1
Nitrite as N	0.157	H	0.100	0.0293 mg/L			03/31/23 12:25	1
Fluoride	0.504		0.500	0.100 mg/L			03/31/23 12:25	1
Sulfate	46.3		0.500	0.109 mg/L			03/31/23 12:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	254		10.0	5.76 mg/L		03/31/23 09:30	03/31/23 15:32	50
Magnesium	50.8		0.200	0.0428 mg/L		03/31/23 09:30	03/31/23 15:14	1
Potassium	4.44		0.500	0.0914 mg/L		03/31/23 09:30	03/31/23 15:14	1
Sodium	79.9		0.500	0.152 mg/L		03/31/23 09:30	03/31/23 15:14	1
SiO2	65.3		1.07	0.471 mg/L		03/31/23 09:30	03/31/23 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-5.81			%			04/05/23 12:37	1
Alkalinity (SM 2320B)	684		4.00	4.00 mg/L			03/31/23 13:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	684		4.00	4.00 mg/L			03/31/23 13:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			03/31/23 13:42	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			03/31/23 13:42	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			03/31/23 13:42	1
Total Dissolved Solids (SM 2540C)	1130		10.0	10.0 mg/L			03/30/23 19:30	1
pH (SM 4500 H+ B)	6.3	HF		SU			03/31/23 12:31	1
Temperature (SM 4500 H+ B)	15.1	HF		Degrees C			03/31/23 12:31	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-26543-1
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 (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
880-26543-1	Levey Well	101	104	94	94
LCS 860-96598/3	Lab Control Sample	98	109	93	91
LCSD 860-96598/4	Lab Control Sample Dup	99	107	92	93
MB 860-96598/10	Method Blank	100	104	92	96
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: 880-26543-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-96598/10

Matrix: Water

Analysis Batch: 96598

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			03/31/23 13:39	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			03/31/23 13:39	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			03/31/23 13:39	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			03/31/23 13:39	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			03/31/23 13:39	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			03/31/23 13:39	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			03/31/23 13:39	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			03/31/23 13:39	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			03/31/23 13:39	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			03/31/23 13:39	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			03/31/23 13:39	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			03/31/23 13:39	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			03/31/23 13:39	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			03/31/23 13:39	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			03/31/23 13:39	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			03/31/23 13:39	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			03/31/23 13:39	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			03/31/23 13:39	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			03/31/23 13:39	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			03/31/23 13:39	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/31/23 13:39	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			03/31/23 13:39	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			03/31/23 13:39	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			03/31/23 13:39	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			03/31/23 13:39	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			03/31/23 13:39	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			03/31/23 13:39	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			03/31/23 13:39	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			03/31/23 13:39	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			03/31/23 13:39	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			03/31/23 13:39	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			03/31/23 13:39	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			03/31/23 13:39	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			03/31/23 13:39	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			03/31/23 13:39	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			03/31/23 13:39	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			03/31/23 13:39	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			03/31/23 13:39	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			03/31/23 13:39	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			03/31/23 13:39	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			03/31/23 13:39	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			03/31/23 13:39	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			03/31/23 13:39	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			03/31/23 13:39	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			03/31/23 13:39	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			03/31/23 13:39	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			03/31/23 13:39	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			03/31/23 13:39	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-96598/10

Matrix: Water

Analysis Batch: 96598

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			03/31/23 13:39	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			03/31/23 13:39	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			03/31/23 13:39	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			03/31/23 13:39	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			03/31/23 13:39	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			03/31/23 13:39	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			03/31/23 13:39	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			03/31/23 13:39	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			03/31/23 13:39	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			03/31/23 13:39	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			03/31/23 13:39	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			03/31/23 13:39	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			03/31/23 13:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		03/31/23 13:39	1
Dibromofluoromethane (Surr)	104		75 - 131		03/31/23 13:39	1
1,2-Dichloroethane-d4 (Surr)	92		63 - 144		03/31/23 13:39	1
Toluene-d8 (Surr)	96		80 - 117		03/31/23 13:39	1

Lab Sample ID: LCS 860-96598/3

Matrix: Water

Analysis Batch: 96598

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	0.05120		mg/L		102	75 - 125
Bromobenzene	0.0500	0.04597		mg/L		92	75 - 125
Bromochloromethane	0.0500	0.05469		mg/L		109	60 - 140
Bromodichloromethane	0.0500	0.04998		mg/L		100	75 - 125
Bromoform	0.0500	0.04496		mg/L		90	70 - 130
Bromomethane	0.0500	0.05028		mg/L		101	60 - 140
2-Butanone	0.250	0.2573		mg/L		103	60 - 140
Carbon tetrachloride	0.0500	0.05579		mg/L		112	70 - 130
Chlorobenzene	0.0500	0.04827		mg/L		97	65 - 135
Chloroethane	0.0500	0.05591		mg/L		112	60 - 140
Chloroform	0.0500	0.05545		mg/L		111	70 - 121
Chloromethane	0.0500	0.05136		mg/L		103	60 - 140
2-Chlorotoluene	0.0500	0.04658		mg/L		93	73 - 125
4-Chlorotoluene	0.0500	0.04667		mg/L		93	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05465		mg/L		109	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05089		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.04484		mg/L		90	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03830		mg/L		77	59 - 125
1,2-Dibromoethane	0.0500	0.04550		mg/L		91	73 - 125
1,2-Dichlorobenzene	0.0500	0.04567		mg/L		91	75 - 125
1,3-Dichlorobenzene	0.0500	0.04594		mg/L		92	75 - 125
1,4-Dichlorobenzene	0.0500	0.04539		mg/L		91	75 - 125
Dichlorodifluoromethane	0.0500	0.05544		mg/L		111	70 - 130

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QC Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-96598/3

Matrix: Water

Analysis Batch: 96598

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	0.05414		mg/L		108	70 - 130
1,2-Dichloroethane	0.0500	0.04929		mg/L		99	72 - 130
1,1-Dichloroethene	0.0500	0.05116		mg/L		102	50 - 150
1,2-Dichloropropane	0.0500	0.05105		mg/L		102	74 - 125
1,3-Dichloropropane	0.0500	0.04460		mg/L		89	75 - 125
2,2-Dichloropropane	0.0500	0.05696		mg/L		114	75 - 125
1,1-Dichloropropene	0.0500	0.05578		mg/L		112	75 - 125
Ethylbenzene	0.0500	0.04890		mg/L		98	75 - 125
Hexachlorobutadiene	0.0500	0.04639		mg/L		93	75 - 125
Isopropylbenzene	0.0500	0.04905		mg/L		98	75 - 125
Methylene Chloride	0.0500	0.04989		mg/L		100	75 - 125
m,p-Xylenes	0.0500	0.04868		mg/L		97	75 - 125
MTBE	0.0500	0.05336		mg/L		107	65 - 135
Naphthalene	0.0500	0.04293		mg/L		86	70 - 130
n-Butylbenzene	0.0500	0.04649		mg/L		93	75 - 125
N-Propylbenzene	0.0500	0.04666		mg/L		93	75 - 125
o-Xylene	0.0500	0.04804		mg/L		96	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04700		mg/L		94	75 - 125
sec-Butylbenzene	0.0500	0.04647		mg/L		93	75 - 125
Styrene	0.0500	0.04874		mg/L		97	75 - 125
tert-Butylbenzene	0.0500	0.04653		mg/L		93	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04849		mg/L		97	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04168		mg/L		83	74 - 125
Tetrachloroethene	0.0500	0.05017		mg/L		100	71 - 125
Toluene	0.0500	0.04769		mg/L		95	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05484		mg/L		110	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04512		mg/L		90	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04561		mg/L		91	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04626		mg/L		93	75 - 135
1,1,1-Trichloroethane	0.0500	0.05703		mg/L		114	70 - 130
1,1,2-Trichloroethane	0.0500	0.04481		mg/L		90	70 - 130
Trichloroethene	0.0500	0.05380		mg/L		108	75 - 135
Trichlorofluoromethane	0.0500	0.05942		mg/L		119	60 - 140
1,2,3-Trichloropropane	0.0500	0.03990		mg/L		80	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04542		mg/L		91	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04596		mg/L		92	60 - 140
Vinyl chloride	0.0500	0.05506		mg/L		110	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	109		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	91		80 - 117

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QC Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-96598/4

Matrix: Water

Analysis Batch: 96598

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	0.05179		mg/L		104	75 - 125	1	25
Bromobenzene	0.0500	0.04791		mg/L		96	75 - 125	4	25
Bromochloromethane	0.0500	0.05604		mg/L		112	60 - 140	2	25
Bromodichloromethane	0.0500	0.05108		mg/L		102	75 - 125	2	25
Bromoform	0.0500	0.04592		mg/L		92	70 - 130	2	25
Bromomethane	0.0500	0.05238		mg/L		105	60 - 140	4	25
2-Butanone	0.250	0.2669		mg/L		107	60 - 140	4	25
Carbon tetrachloride	0.0500	0.05443		mg/L		109	70 - 130	2	25
Chlorobenzene	0.0500	0.04938		mg/L		99	65 - 135	2	25
Chloroethane	0.0500	0.05770		mg/L		115	60 - 140	3	25
Chloroform	0.0500	0.05664		mg/L		113	70 - 121	2	25
Chloromethane	0.0500	0.05182		mg/L		104	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04861		mg/L		97	73 - 125	4	25
4-Chlorotoluene	0.0500	0.04842		mg/L		97	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05471		mg/L		109	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.05092		mg/L		102	74 - 125	0	25
Dibromochloromethane	0.0500	0.04753		mg/L		95	73 - 125	6	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04263		mg/L		85	59 - 125	11	25
1,2-Dibromoethane	0.0500	0.04726		mg/L		95	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.04807		mg/L		96	75 - 125	5	25
1,3-Dichlorobenzene	0.0500	0.04821		mg/L		96	75 - 125	5	25
1,4-Dichlorobenzene	0.0500	0.04778		mg/L		96	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.05340		mg/L		107	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.05442		mg/L		109	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.05000		mg/L		100	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.05105		mg/L		102	50 - 150	0	25
1,2-Dichloropropane	0.0500	0.05246		mg/L		105	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04689		mg/L		94	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.05600		mg/L		112	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.05417		mg/L		108	75 - 125	3	25
Ethylbenzene	0.0500	0.04952		mg/L		99	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.04956		mg/L		99	75 - 125	7	25
Isopropylbenzene	0.0500	0.05016		mg/L		100	75 - 125	2	25
Methylene Chloride	0.0500	0.05051		mg/L		101	75 - 125	1	25
m,p-Xylenes	0.0500	0.04907		mg/L		98	75 - 125	1	25
MTBE	0.0500	0.05397		mg/L		108	65 - 135	1	25
Naphthalene	0.0500	0.04774		mg/L		95	70 - 130	11	25
n-Butylbenzene	0.0500	0.04796		mg/L		96	75 - 125	3	25
N-Propylbenzene	0.0500	0.04841		mg/L		97	75 - 125	4	25
o-Xylene	0.0500	0.04885		mg/L		98	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04934		mg/L		99	75 - 125	5	25
sec-Butylbenzene	0.0500	0.04872		mg/L		97	75 - 125	5	25
Styrene	0.0500	0.04934		mg/L		99	75 - 125	1	25
tert-Butylbenzene	0.0500	0.04851		mg/L		97	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.04889		mg/L		98	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04631		mg/L		93	74 - 125	11	25
Tetrachloroethene	0.0500	0.05014		mg/L		100	71 - 125	0	25
Toluene	0.0500	0.04834		mg/L		97	70 - 130	1	25

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QC Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-96598/4

Matrix: Water

Analysis Batch: 96598

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
trans-1,2-Dichloroethene	0.0500	0.05314		mg/L		106	75 - 125	3	25
trans-1,3-Dichloropropene	0.0500	0.04723		mg/L		94	66 - 125	5	25
1,2,3-Trichlorobenzene	0.0500	0.04820		mg/L		96	75 - 137	6	25
1,2,4-Trichlorobenzene	0.0500	0.04915		mg/L		98	75 - 135	6	25
1,1,1-Trichloroethane	0.0500	0.05583		mg/L		112	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04649		mg/L		93	70 - 130	4	25
Trichloroethene	0.0500	0.05412		mg/L		108	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.06102		mg/L		122	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.04370		mg/L		87	75 - 125	9	25
1,2,4-Trimethylbenzene	0.0500	0.04793		mg/L		96	75 - 125	5	25
1,3,5-Trimethylbenzene	0.0500	0.04772		mg/L		95	60 - 140	4	25
Vinyl chloride	0.0500	0.05480		mg/L		110	60 - 140	0	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	107		75 - 131
1,2-Dichloroethane-d4 (Surr)	92		63 - 144
Toluene-d8 (Surr)	93		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-96671/14

Matrix: Water

Analysis Batch: 96671

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/31/23 03:44	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/31/23 03:44	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/31/23 03:44	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/31/23 03:44	1

Lab Sample ID: LCS 860-96671/15

Matrix: Water

Analysis Batch: 96671

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Bromide	10.0	9.719		mg/L		97	90 - 110		
Chloride	10.0	10.07		mg/L		101	90 - 110		
Fluoride	10.0	10.15		mg/L		102	90 - 110		
Sulfate	10.0	9.556		mg/L		96	90 - 110		

Lab Sample ID: LCSD 860-96671/16

Matrix: Water

Analysis Batch: 96671

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		
Bromide	10.0	9.735		mg/L		97	90 - 110	0	20
Chloride	10.0	10.09		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.18		mg/L		102	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-96671/16

Matrix: Water

Analysis Batch: 96671

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	9.560		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-96671/18

Matrix: Water

Analysis Batch: 96671

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	0.4318	J	mg/L		86	50 - 150		
Chloride	0.500	0.4746	J	mg/L		95	50 - 150		
Fluoride	0.500	0.4543	J	mg/L		91	50 - 150		
Sulfate	0.500	0.5653		mg/L		113	50 - 150		

Lab Sample ID: MB 860-96672/14

Matrix: Water

Analysis Batch: 96672

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/31/23 03:44	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/31/23 03:44	1

Lab Sample ID: LCS 860-96672/15

Matrix: Water

Analysis Batch: 96672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	10.0	10.05		mg/L		101	80 - 120		
Nitrite as N	10.0	10.30		mg/L		103	80 - 120		

Lab Sample ID: LCSD 860-96672/16

Matrix: Water

Analysis Batch: 96672

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.05		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	10.31		mg/L		103	80 - 120	0	20

Lab Sample ID: LLCS 860-96672/17

Matrix: Water

Analysis Batch: 96672

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	0.1067		mg/L		107	50 - 150		
Nitrite as N	0.100	0.06480	J	mg/L		65	50 - 150		

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QC Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-96699/1-A

Matrix: Water

Analysis Batch: 96932

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 96699

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.115	U	0.200	0.115 mg/L		03/31/23 09:30	03/31/23 14:32	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		03/31/23 09:30	03/31/23 14:32	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		03/31/23 09:30	03/31/23 14:32	1
Sodium	<0.152	U	0.500	0.152 mg/L		03/31/23 09:30	03/31/23 14:32	1
SiO2	<0.471	U	1.07	0.471 mg/L		03/31/23 09:30	03/31/23 14:32	1

Lab Sample ID: LCS 860-96699/2-A

Matrix: Water

Analysis Batch: 96932

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 96699

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Calcium	25.0	24.80		mg/L		99	85 - 115
Magnesium	25.0	24.00		mg/L		96	85 - 115
Potassium	10.0	10.00		mg/L		100	85 - 115
Sodium	25.0	24.00		mg/L		96	85 - 115
SiO2	21.4	21.83		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-96699/3-A

Matrix: Water

Analysis Batch: 96932

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 96699

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Calcium	25.0	24.70		mg/L		99	85 - 115	0	20
Magnesium	25.0	23.90		mg/L		96	85 - 115	0	20
Potassium	10.0	9.990		mg/L		100	85 - 115	0	20
Sodium	25.0	24.00		mg/L		96	85 - 115	0	20
SiO2	21.4	21.83		mg/L		102	85 - 115	0	20

Lab Sample ID: LLCS 860-96699/4-A

Matrix: Water

Analysis Batch: 96932

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 96699

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Calcium	0.200	0.2240		mg/L		112	50 - 150
Magnesium	0.200	0.2250		mg/L		113	50 - 150
Potassium	0.500	0.6120		mg/L		122	50 - 150
Sodium	0.500	0.5760		mg/L		115	50 - 150
SiO2	1.07	1.209		mg/L		113	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-96833/3

Matrix: Water

Analysis Batch: 96833

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			03/31/23 11:29	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/31/23 11:29	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/31/23 11:29	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			03/31/23 11:29	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-96833/3

Matrix: Water

Analysis Batch: 96833

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			03/31/23 11:29	1

Lab Sample ID: LCS 860-96833/4

Matrix: Water

Analysis Batch: 96833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	249.8		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-96833/5

Matrix: Water

Analysis Batch: 96833

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	241.6		mg/L		97	85 - 115	3	20

Lab Sample ID: 880-26543-1 DU

Matrix: Water

Analysis Batch: 96833

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	684		705.5		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	684		705.5		mg/L		3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-96674/1

Matrix: Water

Analysis Batch: 96674

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			03/30/23 19:30	1

Lab Sample ID: LCS 860-96674/2

Matrix: Water

Analysis Batch: 96674

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	800.0		mg/L		80	80 - 120

Lab Sample ID: LCSD 860-96674/3

Matrix: Water

Analysis Batch: 96674

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	800.0		mg/L		80	80 - 120	0	10

Eurofins Midland

QC Sample Results

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

Job ID: 880-26543-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-96674/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 96674							
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		90	50 - 150

QC Association Summary

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

Job ID: 880-26543-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 96598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26543-1	Levey Well	Total/NA	Water	8260C	
MB 860-96598/10	Method Blank	Total/NA	Water	8260C	
LCS 860-96598/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-96598/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 96671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26543-1	Levey Well	Total/NA	Water	300.0	
MB 860-96671/14	Method Blank	Total/NA	Water	300.0	
LCS 860-96671/15	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-96671/16	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-96671/18	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 96672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26543-1	Levey Well	Total/NA	Water	300.0	
MB 860-96672/14	Method Blank	Total/NA	Water	300.0	
LCS 860-96672/15	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-96672/16	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-96672/17	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 96699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26543-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-96699/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-96699/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-96699/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-96699/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 96932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26543-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	96699
880-26543-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	96699
MB 860-96699/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	96699
LCS 860-96699/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	96699
LCSD 860-96699/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	96699
LLCS 860-96699/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	96699

General Chemistry

Analysis Batch: 96674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26543-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-96674/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-96674/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-96674/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-96674/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins Midland

QC Association Summary

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

Job ID: 880-26543-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 96777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26543-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 96833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26543-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-96833/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-96833/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-96833/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-26543-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 97397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26543-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-26543-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 03/29/23 10:25
Date Received: 03/29/23 15:03

Lab Sample ID: 880-26543-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	96598	NA	EET HOU	03/31/23 15:01
Total/NA	Analysis	300.0		1	96671	A1S	EET HOU	03/31/23 12:25
Total/NA	Analysis	300.0		1	96672	A1S	EET HOU	03/31/23 12:25
Total Recoverable	Prep	200.7			96699	MD	EET HOU	03/31/23 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	96932	JDM	EET HOU	03/31/23 15:14
Total Recoverable	Prep	200.7			96699	MD	EET HOU	03/31/23 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	96932	JDM	EET HOU	03/31/23 15:32
Total/NA	Analysis	SM 1030E		1	97397	SC	EET HOU	04/05/23 12:37
Total/NA	Analysis	SM 2320B		1	96833	TL	EET HOU	03/31/23 13:42
Total/NA	Analysis	SM 2540C		1	96674	YGG	EET HOU	03/30/23 19:30
Total/NA	Analysis	SM 4500 H+ B		1	96777	TL	EET HOU	03/31/23 12:31

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

Accreditation/Certification Summary

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

Job ID: 880-26543-1
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	T104704215-23-50	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: 880-26543-1
SDG: Hobbs NM

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-26543-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26543-1	Levey Well	Water	03/29/23 10:25	03/29/23 15:03

- 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

Work Order No: 20543

Project Manager: Beaux Jennings		Bill to: (if different)		Work Order Comments	
Company Name: Ensolum LLC		Company Name:		Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund	
Address: 601 Merienfeld #400		Address:		State of Project:	
City, State ZIP: Midland TX 79701		City, State ZIP:		Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone: 432-230-3344		Email: bjennings@ensolum.com		Deliverables EDD ☐ ADaPT ☐ Other	

ANALYSIS REQUEST										Work Order Notes
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): 5.0/4.7		Thermometer ID: 11202			
Received Intact: Yes ☒ No ☐		Correction Factor: -0.38			
Cooler Custody Seals: Yes ☒ No ☐ N/A		Total Containers: 7			
Sample Custody Seals: Yes ☒ No ☐ N/A					

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth
Levey Well		GW	3-29-23	1025	—

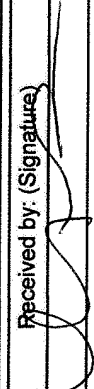
Number of Containers		VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS
7	X	X	X	X	X	X	X



880-26543 Chain of Custody

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

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

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
				3/29/23	
3		4		5	
4		5		6	

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

Chain of Custody Record

 eurofins

Environment Test: 08

Client Information (Sub Contract Lab)						Sampler	Lab PM Kramer Jessica	Carrier Tracking No(s): 880-6654-1
Client Contact: Shipping/Receiving						Phone:	E-Mail: Jessica.Kramer@eurofins.com	Date of Origin: New Mexico
Company Eurofins Environment Testing South Centr						Accreditations Required (See note): NELAP Texas		
Address: 4145 Greenbriar Dr						Job #: 880-26543-1		
City: Stafford								
State, Zip: TX, 77477								
Phone: 281-240-4200(Tel)								
Email: 								
Project Name: Levey Well Hobbs, NM 03B1417001								
Site: 								
Project #: 88000024								
SSOW#: 								
Due Date Requested: 3/31/2023								
TAT Requested (days): 								
Sample Identification - Client ID (Lab ID) Levey Well (880-26543-1)								
Sample Date 3/29/23						Sample Time 10:25 Mountain		
Sample Type (C=Comp, G=grab)						Matrix (W=water, S=solid, O=soil, B=biosolids, E=extract)		
Preservation Code: 								
Field Filtered Sample (Yes or No)						Perform MS/MSD (Yes or No)		
9260/6030C (MOD) Full List VOCs						X		
200.7/200.7_P_TR (MOD) Custom List						X		
900_ORGM_280/Bv Cl, F, SO4						X		
300_ORGFM/NO2, NO3						X		
SM4500_H+/PH						X		
2540C_Calcid/TDS						X		
Calcium, Arsenic (MOD) Copy Analytes						X		
Total Number of Containers						7		
Special Instructions/Note: 								
Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other						M Hexane N None O AsNaO2 P Na2OAS Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)		
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months		
Unconfirmed Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2						Special Instructions/QC Requirements.		
Empty Kit Relinquished by 						Date: 		
Relinquished by: 						Received by: FedEx		
Relinquished by: 						Date/Time: 		
Relinquished by: 						Date/Time: 		
Relinquished by: 						Date/Time: 		
Custody Seals Intact: A Yes A No						Cooler Temperature(s) °C and Other Remarks: 		
Custody Seal No. 						Temp: C/F:-0.2 / IR ID:HOU		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-26543-1

SDG Number: Hobbs NM

Login Number: 26543

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-26543-1

SDG Number: Hobbs NM

Login Number: 26543

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 03/30/23 04:51 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

March 17, 2023

Revised Report

Ensolum, LLC

Sample Delivery Group: L1592585
Samples Received: 03/08/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1592585-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	20	⁸ Gl
Al: Accreditations & Locations	21	
Sc: Sample Chain of Custody	22	⁹ Al
		¹⁰ Sc

LEVEY WELL L1592585-01 Air

Collected by
Shane Diller

Collected date/time
03/03/23 10:12

Received date/time
03/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2019993	100	03/09/23 22:00	03/09/23 22:00	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2020780	1000	03/10/23 18:30	03/10/23 18:30	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

Report Revision History

Level II Report - Version 1: 03/11/23 13:07

Project Narrative

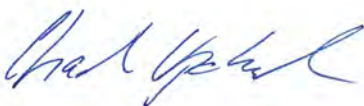
Revised Report: L1592585-01: Upon review, the laboratory discovered a discrepancy in the data initially reported. The data was recalculated and reported.

1	Cp
2	Tc
3	Ss
4	Cn
5	Tr
6	Sr
7	Qc
8	Gl
9	Al
10	Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 03/17/2023 16:56				
Project Name: Levey Well			Laboratory Job Number: L1592585-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2019993 and WG2020780				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 03/17/2023 16:56				
Project Name: Levey Well			Laboratory Job Number: L1592585-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2019993 and WG2020780				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/17/2023 16:56	
Project Name: Levey Well		Laboratory Job Number: L1592585-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2019993 and WG2020780	
ER #¹	Description		
1	TO-15 WG2019993 Chloroethane: Percent Recovery is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/03/23 10:12

L1592585

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	4050	9620		100	WG2019993
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2019993
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2019993
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2019993
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2019993
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2019993
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2019993
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2019993
Carbon disulfide	75-15-0	76.10	20.0	62.2	27.6	85.9		100	WG2019993
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2019993
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2019993
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND	J4	100	WG2019993
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2019993
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2019993
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2019993
Cyclohexane	110-82-7	84.20	200	689	21000	72300		1000	WG2020780
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2019993
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2019993
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2019993
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2019993
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2019993
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2019993
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2019993
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2019993
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2019993
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2019993
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2019993
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2019993
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2019993
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2019993
Ethanol	64-17-5	46.10	125	236	793	1500		100	WG2019993
Ethylbenzene	100-41-4	106	20.0	86.7	105	455		100	WG2019993
4-Ethyltoluene	622-96-8	120	20.0	98.2	38.8	190		100	WG2019993
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2019993
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2019993
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2019993
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2019993
Heptane	142-82-5	100	20.0	81.8	ND	ND		100	WG2019993
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2019993
n-Hexane	110-54-3	86.20	630	2220	68600	242000		1000	WG2020780
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2019993
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2019993
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2019993
2-Butanone (MEK)	78-93-3	72.10	125	369	1010	2980		100	WG2019993
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2019993
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2019993
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2019993
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2019993
2-Propanol	67-63-0	60.10	125	307	1680	4130		100	WG2019993
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2019993
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2019993
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2019993
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2019993
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2019993
Toluene	108-88-3	92.10	50.0	188	ND	ND		100	WG2019993
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2019993

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/03/23 10:12

L1592585

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	WG2019993
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2019993
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2019993
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	23.9	117		100	WG2019993
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2019993
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2019993
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2019993
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2019993
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2019993
m&p-Xylene	1330-20-7	106	40.0	173	112	486		100	WG2019993
o-Xylene	95-47-6	106	20.0	86.7	42.6	185		100	WG2019993
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	395000	1630000		100	WG2019993
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.5				WG2019993
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2020780

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (MS) by Method TO-15

L1592585-01

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.143	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

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	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

Volatile Organic Compounds (MS) by Method TO-15

L1592585-01

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
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

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Propanol	U		0.264	1.25
Propene	0.166	J	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	93.3			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

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	4.17	4.20	111	112	70.0-130			0.717	25
Allyl Chloride	3.75	4.64	4.61	124	123	70.0-130			0.649	25
Benzene	3.75	4.49	4.47	120	119	70.0-130			0.446	25
Benzyl Chloride	3.75	4.59	4.53	122	121	70.0-152			1.32	25
Bromodichloromethane	3.75	4.28	4.26	114	114	70.0-130			0.468	25
Bromoform	3.75	4.17	4.19	111	112	70.0-130			0.478	25
Bromomethane	3.75	4.06	4.18	108	111	70.0-130			2.91	25
1,3-Butadiene	3.75	3.41	3.44	90.9	91.7	70.0-130			0.876	25
Carbon disulfide	3.75	4.41	4.43	118	118	70.0-130			0.452	25
Carbon tetrachloride	3.75	4.35	4.36	116	116	70.0-130			0.230	25
Chlorobenzene	3.75	4.38	4.36	117	116	70.0-130			0.458	25
Chloroethane	3.75	5.23	5.21	139	139	70.0-130	J4	J4	0.383	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroform	3.75	4.40	4.43	117	118	70.0-130			0.679	25
Chloromethane	3.75	3.97	3.96	106	106	70.0-130			0.252	25
2-Chlorotoluene	3.75	4.40	4.38	117	117	70.0-130			0.456	25
Dibromochloromethane	3.75	4.29	4.28	114	114	70.0-130			0.233	25
1,2-Dibromoethane	3.75	4.41	4.35	118	116	70.0-130			1.37	25
1,2-Dichlorobenzene	3.75	4.28	4.27	114	114	70.0-130			0.234	25
1,3-Dichlorobenzene	3.75	4.32	4.35	115	116	70.0-130			0.692	25
1,4-Dichlorobenzene	3.75	4.37	4.34	117	116	70.0-130			0.689	25
1,2-Dichloroethane	3.75	4.22	4.23	113	113	70.0-130			0.237	25
1,1-Dichloroethane	3.75	4.44	4.43	118	118	70.0-130			0.225	25
1,1-Dichloroethene	3.75	4.43	4.45	118	119	70.0-130			0.450	25
cis-1,2-Dichloroethene	3.75	4.51	4.53	120	121	70.0-130			0.442	25
trans-1,2-Dichloroethene	3.75	4.43	4.50	118	120	70.0-130			1.57	25
1,2-Dichloropropane	3.75	4.34	4.28	116	114	70.0-130			1.39	25
cis-1,3-Dichloropropene	3.75	4.54	4.49	121	120	70.0-130			1.11	25
trans-1,3-Dichloropropene	3.75	4.42	4.42	118	118	70.0-130			0.000	25
1,4-Dioxane	3.75	4.57	4.46	122	119	70.0-140			2.44	25
Ethanol	3.75	3.77	3.80	101	101	55.0-148			0.793	25
Ethylbenzene	3.75	4.66	4.64	124	124	70.0-130			0.430	25
4-Ethyltoluene	3.75	4.60	4.59	123	122	70.0-130			0.218	25
Trichlorofluoromethane	3.75	4.32	4.36	115	116	70.0-130			0.922	25
Dichlorodifluoromethane	3.75	4.29	4.35	114	116	64.0-139			1.39	25
1,1,2-Trichlorotrifluoroethane	3.75	4.36	4.42	116	118	70.0-130			1.37	25
1,2-Dichlorotetrafluoroethane	3.75	4.21	4.23	112	113	70.0-130			0.474	25
Heptane	3.75	4.30	4.31	115	115	70.0-130			0.232	25
Hexachloro-1,3-butadiene	3.75	4.39	4.37	117	117	70.0-151			0.457	25
Isopropylbenzene	3.75	4.72	4.69	126	125	70.0-130			0.638	25
Methylene Chloride	3.75	4.01	4.06	107	108	70.0-130			1.24	25
Methyl Butyl Ketone	3.75	3.97	3.97	106	106	70.0-149			0.000	25
Methyl Ethyl Ketone	3.75	4.81	4.82	128	129	70.0-130			0.208	25
4-Methyl-2-pentanone (MIBK)	3.75	4.04	4.04	108	108	70.0-139			0.000	25
Methyl Methacrylate	3.75	4.63	4.61	123	123	70.0-130			0.433	25
MTBE	3.75	4.67	4.73	125	126	70.0-130			1.28	25
Naphthalene	3.75	4.28	4.32	114	115	70.0-159			0.930	25
2-Propanol	3.75	4.24	4.15	113	111	70.0-139			2.15	25
Propene	3.75	3.71	3.73	98.9	99.5	64.0-144			0.538	25
Styrene	3.75	4.60	4.61	123	123	70.0-130			0.217	25
1,1,2,2-Tetrachloroethane	3.75	4.31	4.32	115	115	70.0-130			0.232	25
Tetrachloroethylene	3.75	4.45	4.43	119	118	70.0-130			0.450	25
Tetrahydrofuran	3.75	4.19	4.25	112	113	70.0-137			1.42	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Toluene	3.75	4.57	4.50	122	120	70.0-130			1.54	25
1,2,4-Trichlorobenzene	3.75	4.02	4.05	107	108	70.0-160			0.743	25
1,1,1-Trichloroethane	3.75	4.36	4.35	116	116	70.0-130			0.230	25
1,1,2-Trichloroethane	3.75	4.36	4.34	116	116	70.0-130			0.460	25
Trichloroethylene	3.75	4.45	4.43	119	118	70.0-130			0.450	25
1,2,4-Trimethylbenzene	3.75	4.60	4.55	123	121	70.0-130			1.09	25
1,3,5-Trimethylbenzene	3.75	4.47	4.50	119	120	70.0-130			0.669	25
2,2,4-Trimethylpentane	3.75	4.67	4.71	125	126	70.0-130			0.853	25
Vinyl chloride	3.75	4.05	4.05	108	108	70.0-130			0.000	25
Vinyl Bromide	3.75	4.41	4.54	118	121	70.0-130			2.91	25
Vinyl acetate	3.75	4.49	4.32	120	115	70.0-130			3.86	25
m&p-Xylene	7.50	9.37	9.32	125	124	70.0-130			0.535	25
o-Xylene	3.75	4.71	4.62	126	123	70.0-130			1.93	25
TPH (GC/MS) Low Fraction	203	199	201	98.0	99.0	70.0-130			1.00	25
(S) 1,4-Bromofluorobenzene				98.5	98.1	60.0-140				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.27	4.29	114	114	70.0-130			0.467	25
Allyl Chloride	3.75	3.75	3.72	100	99.2	70.0-130			0.803	25
Benzene	3.75	3.91	3.89	104	104	70.0-130			0.513	25
Benzyl Chloride	3.75	4.27	4.21	114	112	70.0-152			1.42	25
Bromodichloromethane	3.75	3.93	3.91	105	104	70.0-130			0.510	25
Bromoform	3.75	4.17	4.19	111	112	70.0-130			0.478	25
Bromomethane	3.75	3.44	3.54	91.7	94.4	70.0-130			2.87	25
1,3-Butadiene	3.75	3.67	3.70	97.9	98.7	70.0-130			0.814	25
Carbon disulfide	3.75	3.84	3.85	102	103	70.0-130			0.260	25
Carbon tetrachloride	3.75	3.89	3.90	104	104	70.0-130			0.257	25
Chlorobenzene	3.75	3.91	3.89	104	104	70.0-130			0.513	25
Chloroethane	3.75	3.98	3.96	106	106	70.0-130			0.504	25
Chloroform	3.75	3.85	3.87	103	103	70.0-130			0.518	25
Chloromethane	3.75	4.26	4.24	114	113	70.0-130			0.471	25
2-Chlorotoluene	3.75	3.91	3.88	104	103	70.0-130			0.770	25
Dibromochloromethane	3.75	4.07	4.05	109	108	70.0-130			0.493	25
1,2-Dibromoethane	3.75	4.00	3.95	107	105	70.0-130			1.26	25
1,2-Dichlorobenzene	3.75	4.10	4.09	109	109	70.0-130			0.244	25

Cp

Tc

Ss

Cn

Tr

Sr

Qc

Gl

Al

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Dichlorobenzene	3.75	4.24	4.26	113	114	70.0-130			0.471	25
1,4-Dichlorobenzene	3.75	4.50	4.47	120	119	70.0-130			0.669	25
1,2-Dichloroethane	3.75	4.05	4.06	108	108	70.0-130			0.247	25
1,1-Dichloroethane	3.75	3.98	3.97	106	106	70.0-130			0.252	25
1,1-Dichloroethene	3.75	4.04	4.07	108	109	70.0-130			0.740	25
cis-1,2-Dichloroethene	3.75	4.04	4.06	108	108	70.0-130			0.494	25
trans-1,2-Dichloroethene	3.75	3.91	3.97	104	106	70.0-130			1.52	25
1,2-Dichloropropane	3.75	4.10	4.04	109	108	70.0-130			1.47	25
cis-1,3-Dichloropropene	3.75	3.93	3.89	105	104	70.0-130			1.02	25
trans-1,3-Dichloropropene	3.75	4.06	4.06	108	108	70.0-130			0.000	25
1,4-Dioxane	3.75	3.77	3.67	101	97.9	70.0-140			2.69	25
Ethanol	3.75	4.02	4.05	107	108	55.0-148			0.743	25
Ethylbenzene	3.75	4.00	3.99	107	106	70.0-130			0.250	25
4-Ethyltoluene	3.75	4.00	3.99	107	106	70.0-130			0.250	25
Trichlorofluoromethane	3.75	3.91	3.95	104	105	70.0-130			1.02	25
Dichlorodifluoromethane	3.75	3.92	3.98	105	106	64.0-139			1.52	25
1,1,2-Trichlorotrifluoroethane	3.75	3.87	3.92	103	105	70.0-130			1.28	25
1,2-Dichlorotetrafluoroethane	3.75	3.89	3.91	104	104	70.0-130			0.513	25
Heptane	3.75	4.39	4.41	117	118	70.0-130			0.455	25
Hexachloro-1,3-butadiene	3.75	4.28	4.25	114	113	70.0-151			0.703	25
Isopropylbenzene	3.75	3.87	3.84	103	102	70.0-130			0.778	25
Methylene Chloride	3.75	4.06	4.11	108	110	70.0-130			1.22	25
Methyl Butyl Ketone	3.75	4.30	4.30	115	115	70.0-149			0.000	25
Methyl Ethyl Ketone	3.75	3.88	3.89	103	104	70.0-130			0.257	25
4-Methyl-2-pentanone (MIBK)	3.75	4.61	4.60	123	123	70.0-139			0.217	25
Methyl Methacrylate	3.75	4.15	4.13	111	110	70.0-130			0.483	25
MTBE	3.75	3.84	3.88	102	103	70.0-130			1.04	25
Naphthalene	3.75	4.33	4.37	115	117	70.0-159			0.920	25
2-Propanol	3.75	4.31	4.22	115	113	70.0-139			2.11	25
Propene	3.75	4.30	4.31	115	115	64.0-144			0.232	25
Styrene	3.75	3.98	3.98	106	106	70.0-130			0.000	25
1,1,2,2-Tetrachloroethane	3.75	3.78	3.79	101	101	70.0-130			0.264	25
Tetrachloroethylene	3.75	4.13	4.10	110	109	70.0-130			0.729	25
Tetrahydrofuran	3.75	4.23	4.28	113	114	70.0-137			1.18	25
Toluene	3.75	3.98	3.92	106	105	70.0-130			1.52	25
1,2,4-Trichlorobenzene	3.75	4.51	4.54	120	121	70.0-160			0.663	25
1,1,1-Trichloroethane	3.75	3.90	3.89	104	104	70.0-130			0.257	25
1,1,2-Trichloroethane	3.75	3.93	3.92	105	105	70.0-130			0.255	25
Trichloroethylene	3.75	3.93	3.91	105	104	70.0-130			0.510	25
1,2,4-Trimethylbenzene	3.75	3.90	3.86	104	103	70.0-130			1.03	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1592585-01](#)

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

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 %
1,3,5-Trimethylbenzene	3.75	3.84	3.86	102	103	70.0-130			0.519	25
2,2,4-Trimethylpentane	3.75	3.66	3.69	97.6	98.4	70.0-130			0.816	25
Vinyl chloride	3.75	3.49	3.50	93.1	93.3	70.0-130			0.286	25
Vinyl Bromide	3.75	3.84	3.95	102	105	70.0-130			2.82	25
Vinyl acetate	3.75	4.17	4.04	111	108	70.0-130			3.17	25
m&p-Xylene	7.50	7.88	7.83	105	104	70.0-130			0.637	25
o-Xylene	3.75	3.80	3.73	101	99.5	70.0-130			1.86	25
TPH (GC/MS) Low Fraction	203	195	201	96.1	99.0	70.0-130			3.03	25
(S) 1,4-Bromofluorobenzene				95.4	95.0	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1592585-01

Method Blank (MB)

(MB) R3899626-2 03/10/23 10:16

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	100			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899626-1 03/10/23 09:27 • (LCSD) R3899626-3 03/10/23 11:06

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	4.72	4.81	126	128	70.0-130			1.89	25
n-Hexane	3.75	4.84	4.89	129	130	70.0-130			1.03	25
(S) 1,4-Bromofluorobenzene				104	104	60.0-140				

1
Cp

2
Tc

3
Ss

4
Cn

5
Tr

6
Sr

7
Qc

8
Gl

9
Al

10
Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.



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.



601 Marienfeld #400
Midland, TX 79701

Accounts Payable
2351 W Northwest Hwy. Ste.
1203
Dallas, TX 75220

Report to:
Beaux Jennings

Email To: **bjennings@ensolum.com**

Project Description:
Levey Well

City/State
Collected: Hobbs NM

Please Circle:
PT MT CT ET

Phone: **210-219-8858**

Client Project #

03B1417001

Lab Project #

ENSOLUMMTX-SUMMA

Collected by (print):
Shane Diller

Site/Facility ID #

03B1417001

P.O. #

03B1417001

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☒ Three Day

Quote #

Date Results Needed

Immediately
Packed on Ice N ☒ Y ☐

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
Levey Well	G	Air		3-3-23	1012	1
NFE - 3-3-23 SE						

TO-15 Summa

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt 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: 3/6/23

Time: 12:05

Received by: (Signature)

Trip Blank Received: Yes ☒ No ☐
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date: 3/6/23

Time: 1700

Received by: (Signature)

Temp: °C
 Bottles Received: 1

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 3/8/23
 Time: 900

Hold:

Condition:
 NCF / OK



ANALYTICAL REPORT

March 17, 2023

Revised Report

Ensolum, LLC

Sample Delivery Group: L1592762
Samples Received: 03/08/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1592762-01	9	⁶ Sr
LEVEY WELL L1592762-02	11	
LEVEY WELL L1592762-03	13	⁷ Qc
LEVEY WELL L1592762-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	27	
Al: Accreditations & Locations	28	¹⁰ Sc
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LEVEY WELL L1592762-01 Air

Collected by
Shane Diller

Collected date/time
03/06/23 10:19

Received date/time
03/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2019993	100	03/09/23 22:40	03/09/23 22:40	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2021784	2000	03/12/23 18:52	03/12/23 18:52	DBB	Mt. Juliet, TN

¹Cp

²Tc

³Ss

LEVEY WELL L1592762-02 Air

Collected by
Shane Diller

Collected date/time
03/06/23 11:27

Received date/time
03/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2019993	100	03/09/23 23:21	03/09/23 23:21	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2020780	1000	03/10/23 20:07	03/10/23 20:07	DAH	Mt. Juliet, TN

⁴Cn

⁵Tr

⁶Sr

LEVEY WELL L1592762-03 Air

Collected by
Shane Diller

Collected date/time
03/06/23 12:33

Received date/time
03/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2019993	100	03/10/23 00:02	03/10/23 00:02	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2020780	1000	03/10/23 20:55	03/10/23 20:55	DAH	Mt. Juliet, TN

⁷Qc

⁸Gl

⁹Al

LEVEY WELL L1592762-04 Air

Collected by
Shane Diller

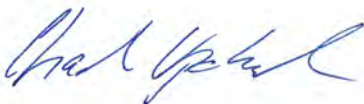
Collected date/time
03/06/23 13:33

Received date/time
03/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2019993	100	03/10/23 00:43	03/10/23 00:43	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2020780	1000	03/10/23 21:43	03/10/23 21:43	DAH	Mt. Juliet, TN

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

Report Revision History

Level II Report - Version 1: 03/13/23 10:51

Project Narrative

Revised Report: Upon review, the laboratory discovered a discrepancy in the data initially reported for the following samples. The data was recalculated and reported.

L1592762-01, L1592762-02, L1592762-03, L1592762-04

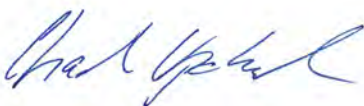
¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Tr
⁶ Sr
⁷ Qc
⁸ Gl
⁹ Al
¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 03/17/2023 16:58					
Project Name: Levey Well		Laboratory Job Number: L1592762-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2019993, WG2020780 and WG2021784					
# 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			1
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			2
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 03/17/2023 16:58					
Project Name: Levey Well		Laboratory Job Number: L1592762-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2019993, WG2020780 and WG2021784					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/17/2023 16:58
Project Name: Levey Well		Laboratory Job Number: L1592762-01, 02, 03 and 04
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2019993, WG2020780 and WG2021784
ER # ¹	Description	
1	TO-15 WG2019993 1,4-Bromofluorobenzene L1592762-03: Percent Recovery is outside of established control limits.	
2	TO-15 WG2019993 Chloroethane: Percent Recovery is outside of established control limits.	
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).		

Collected date/time: 03/06/23 10:19

L1592762

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	499	1190		100	WG2019993
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2019993
Benzene	71-43-2	78.10	20.0	63.9	5070	16200		100	WG2019993
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2019993
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2019993
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2019993
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2019993
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2019993
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2019993
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2019993
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2019993
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND	J4	100	WG2019993
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2019993
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2019993
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2019993
Cyclohexane	110-82-7	84.20	400	1380	35700	123000		2000	WG2021784
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2019993
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2019993
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2019993
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2019993
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2019993
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2019993
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2019993
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2019993
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2019993
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2019993
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2019993
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2019993
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2019993
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2019993
Ethanol	64-17-5	46.10	125	236	902	1700		100	WG2019993
Ethylbenzene	100-41-4	106	400	1730	ND	ND		2000	WG2021784
4-Ethyltoluene	622-96-8	120	20.0	98.2	1460	7170		100	WG2019993
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2019993
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2019993
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2019993
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2019993
Heptane	142-82-5	100	400	1640	6290	25700		2000	WG2021784
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2019993
n-Hexane	110-54-3	86.20	1260	4440	63000	222000		2000	WG2021784
Isopropylbenzene	98-82-8	120.20	20.0	98.3	1000	4920		100	WG2019993
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2019993
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2019993
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2019993
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2019993
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2019993
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2019993
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2019993
2-Propanol	67-63-0	60.10	125	307	3260	8010		100	WG2019993
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2019993
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2019993
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2019993
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2019993
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2019993
Toluene	108-88-3	92.10	1000	3770	ND	ND		2000	WG2021784
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2019993

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/06/23 10:19

L1592762

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	WG2019993
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2019993
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2019993
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	530	2600		100	WG2019993
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	234	1150		100	WG2019993
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2019993
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2019993
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2019993
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2019993
m&p-Xylene	1330-20-7	106	40.0	173	9170	39800		100	WG2019993
o-Xylene	95-47-6	106	20.0	86.7	3400	14700		100	WG2019993
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	404000	1670000		2000	WG2021784
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		114				WG2019993
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG2021784

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 03/06/23 11:27

L1592762

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	453	1080		100	WG2019993
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2019993
Benzene	71-43-2	78.10	20.0	63.9	847	2710		100	WG2019993
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2019993
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2019993
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2019993
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2019993
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2019993
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2019993
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2019993
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2019993
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND	J4	100	WG2019993
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2019993
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2019993
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2019993
Cyclohexane	110-82-7	84.20	20.0	68.9	2890	9950		100	WG2019993
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2019993
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2019993
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2019993
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2019993
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2019993
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2019993
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2019993
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2019993
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2019993
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2019993
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2019993
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2019993
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2019993
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2019993
Ethanol	64-17-5	46.10	125	236	815	1540		100	WG2019993
Ethylbenzene	100-41-4	106	200	867	17200	74600		1000	WG2020780
4-Ethyltoluene	622-96-8	120	20.0	98.2	2440	12000		100	WG2019993
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2019993
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2019993
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2019993
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2019993
Heptane	142-82-5	100	200	818	52000	213000		1000	WG2020780
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2019993
n-Hexane	110-54-3	86.20	63.0	222	1900	6700		100	WG2019993
Isopropylbenzene	98-82-8	120.20	20.0	98.3	1320	6490		100	WG2019993
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2019993
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2019993
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2019993
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2019993
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2019993
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2019993
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2019993
2-Propanol	67-63-0	60.10	125	307	3020	7420		100	WG2019993
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2019993
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2019993
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2019993
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2019993
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2019993
Toluene	108-88-3	92.10	500	1880	37300	141000		1000	WG2020780
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2019993

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/06/23 11:27 L1592762

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	WG2019993
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2019993
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2019993
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	1080	5300		100	WG2019993
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	423	2080		100	WG2019993
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2019993
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2019993
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2019993
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2019993
m&p-Xylene	1330-20-7	106	40.0	173	9700	42100		100	WG2019993
o-Xylene	95-47-6	106	20.0	86.7	3990	17300		100	WG2019993
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	826000	1150000	4750000		1000	WG2020780
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		121				WG2019993
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG2020780

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 03/06/23 12:33

L1592762

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	872	2070		100	WG2019993
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2019993
Benzene	71-43-2	78.10	20.0	63.9	1710	5460		100	WG2019993
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2019993
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2019993
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2019993
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2019993
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2019993
Carbon disulfide	75-15-0	76.10	20.0	62.2	506	1570		100	WG2019993
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2019993
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2019993
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND	J4	100	WG2019993
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2019993
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2019993
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2019993
Cyclohexane	110-82-7	84.20	20.0	68.9	5830	20100		100	WG2019993
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2019993
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2019993
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2019993
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2019993
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2019993
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2019993
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2019993
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2019993
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2019993
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2019993
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2019993
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2019993
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2019993
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2019993
Ethanol	64-17-5	46.10	125	236	1040	1960		100	WG2019993
Ethylbenzene	100-41-4	106	200	867	15900	68900		1000	WG2020780
4-Ethyltoluene	622-96-8	120	20.0	98.2	5010	24600		100	WG2019993
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2019993
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2019993
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2019993
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2019993
Heptane	142-82-5	100	200	818	13800	56400		1000	WG2020780
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2019993
n-Hexane	110-54-3	86.20	63.0	222	4140	14600		100	WG2019993
Isopropylbenzene	98-82-8	120.20	20.0	98.3	2740	13500		100	WG2019993
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2019993
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2019993
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2019993
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2019993
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2019993
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2019993
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2019993
2-Propanol	67-63-0	60.10	125	307	1820	4470		100	WG2019993
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2019993
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2019993
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2019993
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2019993
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2019993
Toluene	108-88-3	92.10	500	1880	16800	63300		1000	WG2020780
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2019993

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/06/23 12:33

L1592762

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	WG2019993
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2019993
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2019993
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	2300	11300		100	WG2019993
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	915	4490		100	WG2019993
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2019993
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2019993
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2019993
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2019993
m&p-Xylene	1330-20-7	106	400	1730	10700	46400		1000	WG2020780
o-Xylene	95-47-6	106	20.0	86.7	8090	35100		100	WG2019993
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	826000	699000	2890000		1000	WG2020780
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		144		J1		WG2019993
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		103				WG2020780

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 03/06/23 13:33

L1592762

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	992	2360		100	WG2019993
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2019993
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2019993
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2019993
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2019993
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2019993
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2019993
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2019993
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2019993
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2019993
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2019993
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND	J4	100	WG2019993
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2019993
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2019993
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2019993
Cyclohexane	110-82-7	84.20	200	689	9560	32900		1000	WG2020780
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2019993
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2019993
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2019993
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2019993
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2019993
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2019993
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2019993
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2019993
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2019993
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2019993
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2019993
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2019993
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2019993
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2019993
Ethanol	64-17-5	46.10	125	236	931	1760		100	WG2019993
Ethylbenzene	100-41-4	106	20.0	86.7	265	1150		100	WG2019993
4-Ethyltoluene	622-96-8	120	20.0	98.2	51.6	253		100	WG2019993
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2019993
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2019993
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2019993
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2019993
Heptane	142-82-5	100	20.0	81.8	3470	14200		100	WG2019993
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2019993
n-Hexane	110-54-3	86.20	630	2220	7630	26900		1000	WG2020780
Isopropylbenzene	98-82-8	120.20	20.0	98.3	33.7	166		100	WG2019993
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2019993
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2019993
2-Butanone (MEK)	78-93-3	72.10	125	369	192	566		100	WG2019993
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2019993
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2019993
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2019993
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2019993
2-Propanol	67-63-0	60.10	125	307	2470	6070		100	WG2019993
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2019993
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2019993
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2019993
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2019993
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2019993
Toluene	108-88-3	92.10	50.0	188	ND	ND		100	WG2019993
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2019993

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/06/23 13:33

L1592762

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	WG2019993
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2019993
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2019993
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	28.2	138		100	WG2019993
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2019993
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2019993
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2019993
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2019993
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2019993
m&p-Xylene	1330-20-7	106	40.0	173	208	902		100	WG2019993
o-Xylene	95-47-6	106	20.0	86.7	75.5	327		100	WG2019993
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	296000	1220000		100	WG2019993
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.7				WG2019993
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		105				WG2020780

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Tr
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (MS) by Method TO-15

L1592762-01,02,03,04

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

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

L1592762-01,02,03,04

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.143	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

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

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

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
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
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R3899105-3 03/09/23 10:17

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
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	0.166	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	93.3			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

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	4.17	4.20	111	112	70.0-130			0.717	25
Allyl Chloride	3.75	4.64	4.61	124	123	70.0-130			0.649	25
Benzene	3.75	4.49	4.47	120	119	70.0-130			0.446	25
Benzyl Chloride	3.75	4.59	4.53	122	121	70.0-152			1.32	25
Bromodichloromethane	3.75	4.28	4.26	114	114	70.0-130			0.468	25
Bromoform	3.75	4.17	4.19	111	112	70.0-130			0.478	25
Bromomethane	3.75	4.06	4.18	108	111	70.0-130			2.91	25
1,3-Butadiene	3.75	3.41	3.44	90.9	91.7	70.0-130			0.876	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

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	4.41	4.43	118	118	70.0-130			0.452	25
Carbon tetrachloride	3.75	4.35	4.36	116	116	70.0-130			0.230	25
Chlorobenzene	3.75	4.38	4.36	117	116	70.0-130			0.458	25
Chloroethane	3.75	5.23	5.21	139	139	70.0-130	J4	J4	0.383	25
Chloroform	3.75	4.40	4.43	117	118	70.0-130			0.679	25
Chloromethane	3.75	3.97	3.96	106	106	70.0-130			0.252	25
2-Chlorotoluene	3.75	4.40	4.38	117	117	70.0-130			0.456	25
Cyclohexane	3.75	4.77	4.73	127	126	70.0-130			0.842	25
Dibromochloromethane	3.75	4.29	4.28	114	114	70.0-130			0.233	25
1,2-Dibromoethane	3.75	4.41	4.35	118	116	70.0-130			1.37	25
1,2-Dichlorobenzene	3.75	4.28	4.27	114	114	70.0-130			0.234	25
1,3-Dichlorobenzene	3.75	4.32	4.35	115	116	70.0-130			0.692	25
1,4-Dichlorobenzene	3.75	4.37	4.34	117	116	70.0-130			0.689	25
1,2-Dichloroethane	3.75	4.22	4.23	113	113	70.0-130			0.237	25
1,1-Dichloroethane	3.75	4.44	4.43	118	118	70.0-130			0.225	25
1,1-Dichloroethene	3.75	4.43	4.45	118	119	70.0-130			0.450	25
cis-1,2-Dichloroethene	3.75	4.51	4.53	120	121	70.0-130			0.442	25
trans-1,2-Dichloroethene	3.75	4.43	4.50	118	120	70.0-130			1.57	25
1,2-Dichloropropane	3.75	4.34	4.28	116	114	70.0-130			1.39	25
cis-1,3-Dichloropropene	3.75	4.54	4.49	121	120	70.0-130			1.11	25
trans-1,3-Dichloropropene	3.75	4.42	4.42	118	118	70.0-130			0.000	25
1,4-Dioxane	3.75	4.57	4.46	122	119	70.0-140			2.44	25
Ethanol	3.75	3.77	3.80	101	101	55.0-148			0.793	25
Ethylbenzene	3.75	4.66	4.64	124	124	70.0-130			0.430	25
4-Ethyltoluene	3.75	4.60	4.59	123	122	70.0-130			0.218	25
Trichlorofluoromethane	3.75	4.32	4.36	115	116	70.0-130			0.922	25
Dichlorodifluoromethane	3.75	4.29	4.35	114	116	64.0-139			1.39	25
1,1,2-Trichlorotrifluoroethane	3.75	4.36	4.42	116	118	70.0-130			1.37	25
1,2-Dichlorotetrafluoroethane	3.75	4.21	4.23	112	113	70.0-130			0.474	25
Heptane	3.75	4.30	4.31	115	115	70.0-130			0.232	25
Hexachloro-1,3-butadiene	3.75	4.39	4.37	117	117	70.0-151			0.457	25
n-Hexane	3.75	4.65	4.68	124	125	70.0-130			0.643	25
Isopropylbenzene	3.75	4.72	4.69	126	125	70.0-130			0.638	25
Methylene Chloride	3.75	4.01	4.06	107	108	70.0-130			1.24	25
Methyl Butyl Ketone	3.75	3.97	3.97	106	106	70.0-149			0.000	25
Methyl Ethyl Ketone	3.75	4.81	4.82	128	129	70.0-130			0.208	25
4-Methyl-2-pentanone (MIBK)	3.75	4.04	4.04	108	108	70.0-139			0.000	25
Methyl Methacrylate	3.75	4.63	4.61	123	123	70.0-130			0.433	25
MTBE	3.75	4.67	4.73	125	126	70.0-130			1.28	25
Naphthalene	3.75	4.28	4.32	114	115	70.0-159			0.930	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	4.24	4.15	113	111	70.0-139			2.15	25
Propene	3.75	3.71	3.73	98.9	99.5	64.0-144			0.538	25
Styrene	3.75	4.60	4.61	123	123	70.0-130			0.217	25
1,1,2,2-Tetrachloroethane	3.75	4.31	4.32	115	115	70.0-130			0.232	25
Tetrachloroethylene	3.75	4.45	4.43	119	118	70.0-130			0.450	25
Tetrahydrofuran	3.75	4.19	4.25	112	113	70.0-137			1.42	25
Toluene	3.75	4.57	4.50	122	120	70.0-130			1.54	25
1,2,4-Trichlorobenzene	3.75	4.02	4.05	107	108	70.0-160			0.743	25
1,1,1-Trichloroethane	3.75	4.36	4.35	116	116	70.0-130			0.230	25
1,1,2-Trichloroethane	3.75	4.36	4.34	116	116	70.0-130			0.460	25
Trichloroethylene	3.75	4.45	4.43	119	118	70.0-130			0.450	25
1,2,4-Trimethylbenzene	3.75	4.60	4.55	123	121	70.0-130			1.09	25
1,3,5-Trimethylbenzene	3.75	4.47	4.50	119	120	70.0-130			0.669	25
2,2,4-Trimethylpentane	3.75	4.67	4.71	125	126	70.0-130			0.853	25
Vinyl chloride	3.75	4.05	4.05	108	108	70.0-130			0.000	25
Vinyl Bromide	3.75	4.41	4.54	118	121	70.0-130			2.91	25
Vinyl acetate	3.75	4.49	4.32	120	115	70.0-130			3.86	25
m&p-Xylene	7.50	9.37	9.32	125	124	70.0-130			0.535	25
o-Xylene	3.75	4.71	4.62	126	123	70.0-130			1.93	25
TPH (GC/MS) Low Fraction	203	199	201	98.0	99.0	70.0-130			1.00	25
(S) 1,4-Bromofluorobenzene				98.5	98.1	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.27	4.29	114	114	70.0-130			0.467	25
Allyl Chloride	3.75	3.75	3.72	100	99.2	70.0-130			0.803	25
Benzene	3.75	3.91	3.89	104	104	70.0-130			0.513	25
Benzyl Chloride	3.75	4.27	4.21	114	112	70.0-152			1.42	25
Bromodichloromethane	3.75	3.93	3.91	105	104	70.0-130			0.510	25
Bromoform	3.75	4.17	4.19	111	112	70.0-130			0.478	25
Bromomethane	3.75	3.44	3.54	91.7	94.4	70.0-130			2.87	25
1,3-Butadiene	3.75	3.67	3.70	97.9	98.7	70.0-130			0.814	25
Carbon disulfide	3.75	3.84	3.85	102	103	70.0-130			0.260	25
Carbon tetrachloride	3.75	3.89	3.90	104	104	70.0-130			0.257	25
Chlorobenzene	3.75	3.91	3.89	104	104	70.0-130			0.513	25
Chloroethane	3.75	3.98	3.96	106	106	70.0-130			0.504	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroform	3.75	3.85	3.87	103	103	70.0-130			0.518	25
Chloromethane	3.75	4.26	4.24	114	113	70.0-130			0.471	25
2-Chlorotoluene	3.75	3.91	3.88	104	103	70.0-130			0.770	25
Cyclohexane	3.75	3.70	3.67	98.7	97.9	70.0-130			0.814	25
Dibromochloromethane	3.75	4.07	4.05	109	108	70.0-130			0.493	25
1,2-Dibromoethane	3.75	4.00	3.95	107	105	70.0-130			1.26	25
1,2-Dichlorobenzene	3.75	4.10	4.09	109	109	70.0-130			0.244	25
1,3-Dichlorobenzene	3.75	4.24	4.26	113	114	70.0-130			0.471	25
1,4-Dichlorobenzene	3.75	4.50	4.47	120	119	70.0-130			0.669	25
1,2-Dichloroethane	3.75	4.05	4.06	108	108	70.0-130			0.247	25
1,1-Dichloroethane	3.75	3.98	3.97	106	106	70.0-130			0.252	25
1,1-Dichloroethene	3.75	4.04	4.07	108	109	70.0-130			0.740	25
cis-1,2-Dichloroethene	3.75	4.04	4.06	108	108	70.0-130			0.494	25
trans-1,2-Dichloroethene	3.75	3.91	3.97	104	106	70.0-130			1.52	25
1,2-Dichloropropane	3.75	4.10	4.04	109	108	70.0-130			1.47	25
cis-1,3-Dichloropropene	3.75	3.93	3.89	105	104	70.0-130			1.02	25
trans-1,3-Dichloropropene	3.75	4.06	4.06	108	108	70.0-130			0.000	25
1,4-Dioxane	3.75	3.77	3.67	101	97.9	70.0-140			2.69	25
Ethanol	3.75	4.02	4.05	107	108	55.0-148			0.743	25
Ethylbenzene	3.75	4.00	3.99	107	106	70.0-130			0.250	25
4-Ethyltoluene	3.75	4.00	3.99	107	106	70.0-130			0.250	25
Trichlorofluoromethane	3.75	3.91	3.95	104	105	70.0-130			1.02	25
Dichlorodifluoromethane	3.75	3.92	3.98	105	106	64.0-139			1.52	25
1,1,2-Trichlorotrifluoroethane	3.75	3.87	3.92	103	105	70.0-130			1.28	25
1,2-Dichlorotetrafluoroethane	3.75	3.89	3.91	104	104	70.0-130			0.513	25
Heptane	3.75	4.39	4.41	117	118	70.0-130			0.455	25
Hexachloro-1,3-butadiene	3.75	4.28	4.25	114	113	70.0-151			0.703	25
n-Hexane	3.75	4.09	4.11	109	110	70.0-130			0.488	25
Isopropylbenzene	3.75	3.87	3.84	103	102	70.0-130			0.778	25
Methylene Chloride	3.75	4.06	4.11	108	110	70.0-130			1.22	25
Methyl Butyl Ketone	3.75	4.30	4.30	115	115	70.0-149			0.000	25
Methyl Ethyl Ketone	3.75	3.88	3.89	103	104	70.0-130			0.257	25
4-Methyl-2-pentanone (MIBK)	3.75	4.61	4.60	123	123	70.0-139			0.217	25
Methyl Methacrylate	3.75	4.15	4.13	111	110	70.0-130			0.483	25
MTBE	3.75	3.84	3.88	102	103	70.0-130			1.04	25
Naphthalene	3.75	4.33	4.37	115	117	70.0-159			0.920	25
2-Propanol	3.75	4.31	4.22	115	113	70.0-139			2.11	25
Propene	3.75	4.30	4.31	115	115	64.0-144			0.232	25
Styrene	3.75	3.98	3.98	106	106	70.0-130			0.000	25
1,1,2,2-Tetrachloroethane	3.75	3.78	3.79	101	101	70.0-130			0.264	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899105-1 03/09/23 08:54 • (LCSD) R3899105-2 03/09/23 09:37

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Tetrachloroethylene	3.75	4.13	4.10	110	109	70.0-130			0.729	25
Tetrahydrofuran	3.75	4.23	4.28	113	114	70.0-137			1.18	25
Toluene	3.75	3.98	3.92	106	105	70.0-130			1.52	25
1,2,4-Trichlorobenzene	3.75	4.51	4.54	120	121	70.0-160			0.663	25
1,1,1-Trichloroethane	3.75	3.90	3.89	104	104	70.0-130			0.257	25
1,1,2-Trichloroethane	3.75	3.93	3.92	105	105	70.0-130			0.255	25
Trichloroethylene	3.75	3.93	3.91	105	104	70.0-130			0.510	25
1,2,4-Trimethylbenzene	3.75	3.90	3.86	104	103	70.0-130			1.03	25
1,3,5-Trimethylbenzene	3.75	3.84	3.86	102	103	70.0-130			0.519	25
2,2,4-Trimethylpentane	3.75	3.66	3.69	97.6	98.4	70.0-130			0.816	25
Vinyl chloride	3.75	3.49	3.50	93.1	93.3	70.0-130			0.286	25
Vinyl Bromide	3.75	3.84	3.95	102	105	70.0-130			2.82	25
Vinyl acetate	3.75	4.17	4.04	111	108	70.0-130			3.17	25
m&p-Xylene	7.50	7.88	7.83	105	104	70.0-130			0.637	25
o-Xylene	3.75	3.80	3.73	101	99.5	70.0-130			1.86	25
TPH (GC/MS) Low Fraction	203	195	201	96.1	99.0	70.0-130			3.03	25
(S) 1,4-Bromofluorobenzene				95.4	95.0	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3899626-2 03/10/23 10:16

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
Ethylbenzene	U		0.0835	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
Toluene	U		0.0870	0.500
m&p-Xylene	U		0.135	0.400
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	100			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3899626-1 03/10/23 09:27 • (LCSD) R3899626-3 03/10/23 11:06

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	4.72	4.81	126	128	70.0-130			1.89	25
Ethylbenzene	3.75	4.46	4.47	119	119	70.0-130			0.224	25
Heptane	3.75	4.39	4.45	117	119	70.0-130			1.36	25
n-Hexane	3.75	4.84	4.89	129	130	70.0-130			1.03	25
Toluene	3.75	4.37	4.42	117	118	70.0-130			1.14	25
m&p-Xylene	7.50	8.91	8.91	119	119	70.0-130			0.000	25
TPH (GC/MS) Low Fraction	203	218	222	107	109	70.0-130			1.82	25
(S) 1,4-Bromofluorobenzene				104	104	60.0-140				

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3900244-3 03/12/23 10:04

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
Ethylbenzene	U		0.0835	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
Toluene	U		0.0870	0.500
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	105			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3900244-1 03/12/23 08:45 • (LCSD) R3900244-2 03/12/23 09:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	4.47	4.55	119	121	70.0-130			1.77	25
Ethylbenzene	3.75	4.57	4.59	122	122	70.0-130			0.437	25
Heptane	3.75	4.26	4.28	114	114	70.0-130			0.468	25
n-Hexane	3.75	4.65	4.65	124	124	70.0-130			0.000	25
Toluene	3.75	4.40	4.47	117	119	70.0-130			1.58	25
TPH (GC/MS) Low Fraction	203	204	205	100	101	70.0-130			0.489	25
(S) 1,4-Bromofluorobenzene				105	105	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Released to Imaging: 1/25/2024 9:02:29 AM



ANALYTICAL REPORT

March 16, 2023

Ensolum, LLC

Sample Delivery Group: L1594128
Samples Received: 03/11/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

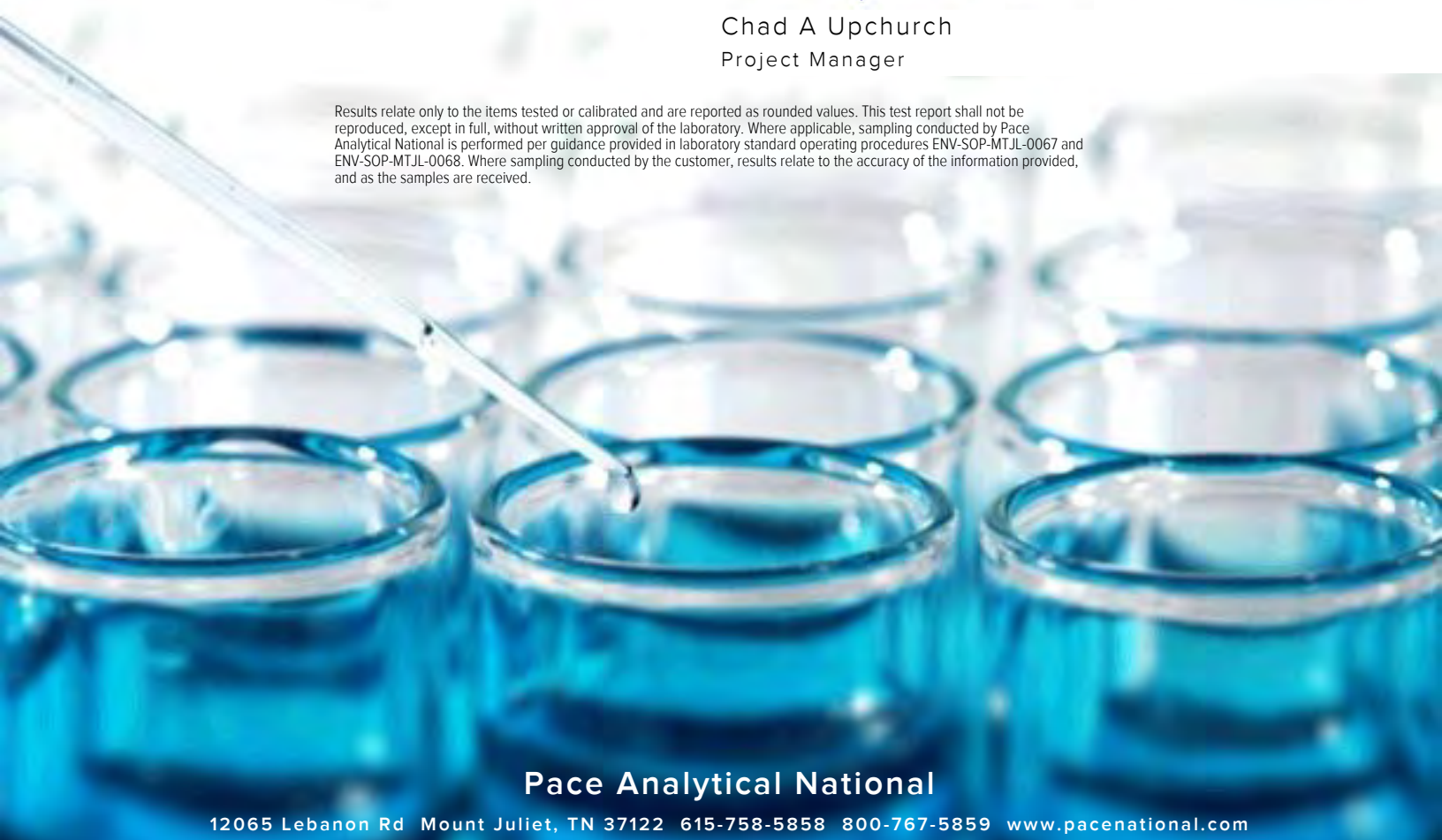


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1594128-01	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 L1594128-01 Air

Collected by
Shane Diller

Collected date/time
03/08/23 13:13

Received date/time
03/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2022203	100	03/14/23 02:20	03/14/23 02:20	DBB	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2023596	1000	03/15/23 16:36	03/15/23 16:36	SDS	Mt. Juliet, TN

¹Cp

²Tc

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



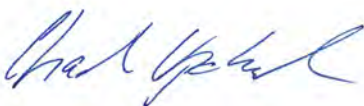
Chad A Upchurch
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 03/16/2023 09:58					
Project Name: Levey Well		Laboratory Job Number: L1594128-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2022203 and WG2023596					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 03/16/2023 09:58					
Project Name: Levey Well		Laboratory Job Number: L1594128-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2022203 and WG2023596					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/16/2023 09:58	
Project Name: Levey Well		Laboratory Job Number: L1594128-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2022203 and WG2023596	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/08/23 13:13

L1594128

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	843	2000		100	WG2022203
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2022203
Benzene	71-43-2	78.10	20.0	63.9	1490	4760		100	WG2022203
Benzyl Chloride	100-44-7	127	20.0	104	20.4	106		100	WG2022203
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2022203
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2022203
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2022203
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2022203
Carbon disulfide	75-15-0	76.10	20.0	62.2	1640	5100		100	WG2022203
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2022203
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2022203
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2022203
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2022203
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2022203
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2022203
Cyclohexane	110-82-7	84.20	20.0	68.9	8240	28400		100	WG2022203
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2022203
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2022203
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2022203
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2022203
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2022203
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2022203
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2022203
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2022203
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2022203
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2022203
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2022203
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2022203
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2022203
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2022203
Ethanol	64-17-5	46.10	125	236	771	1450		100	WG2022203
Ethylbenzene	100-41-4	106	20.0	86.7	8990	39000		100	WG2022203
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2022203
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2022203
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2022203
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2022203
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2022203
Heptane	142-82-5	100	20.0	81.8	8350	34200		100	WG2022203
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2022203
n-Hexane	110-54-3	86.20	630	2220	13700	48300		1000	WG2023596
Isopropylbenzene	98-82-8	120.20	20.0	98.3	743	3650		100	WG2022203
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2022203
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2022203
2-Butanone (MEK)	78-93-3	72.10	125	369	148	436		100	WG2022203
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2022203
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2022203
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2022203
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2022203
2-Propanol	67-63-0	60.10	125	307	839	2060		100	WG2022203
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2022203
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2022203
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2022203
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2022203
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2022203
Toluene	108-88-3	92.10	500	1880	11800	44400		1000	WG2023596
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2022203



Collected date/time: 03/08/23 13:13

L1594128

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	WG2022203
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2022203
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2022203
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	405	1990		100	WG2022203
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	171	839		100	WG2022203
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2022203
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2022203
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2022203
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2022203
m&p-Xylene	1330-20-7	106	40.0	173	6260	27100		100	WG2022203
o-Xylene	95-47-6	106	20.0	86.7	2500	10800		100	WG2022203
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	401000	1660000		100	WG2022203
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		109				WG2022203
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.1				WG2023596

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1594128-01](#)

Method Blank (MB)

(MB) R3901182-3 03/13/23 10:07

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

L1594128-01

Method Blank (MB)

(MB) R3901182-3 03/13/23 10:07

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
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	96.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3901182-1 03/13/23 08:48 • (LCSD) R3901182-2 03/13/23 09:28

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	3.10	3.15	82.7	84.0	70.0-130			1.60	25
Allyl Chloride	3.75	3.55	3.71	94.7	98.9	70.0-130			4.41	25
Benzene	3.75	4.00	3.98	107	106	70.0-130			0.501	25
Benzyl Chloride	3.75	4.08	4.14	109	110	70.0-152			1.46	25
Bromodichloromethane	3.75	4.15	4.12	111	110	70.0-130			0.726	25
Bromoform	3.75	4.15	4.15	111	111	70.0-130			0.000	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3901182-1 03/13/23 08:48 • (LCSD) R3901182-2 03/13/23 09:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	3.98	4.04	106	108	70.0-130			1.50	25
1,3-Butadiene	3.75	4.04	4.09	108	109	70.0-130			1.23	25
Carbon disulfide	3.75	3.80	3.82	101	102	70.0-130			0.525	25
Carbon tetrachloride	3.75	4.23	4.29	113	114	70.0-130			1.41	25
Chlorobenzene	3.75	4.25	4.28	113	114	70.0-130			0.703	25
Chloroethane	3.75	3.84	3.88	102	103	70.0-130			1.04	25
Chloroform	3.75	4.01	4.11	107	110	70.0-130			2.46	25
Chloromethane	3.75	3.93	3.97	105	106	70.0-130			1.01	25
2-Chlorotoluene	3.75	4.37	4.37	117	117	70.0-130			0.000	25
Cyclohexane	3.75	3.82	3.93	102	105	70.0-130			2.84	25
Dibromochloromethane	3.75	4.25	4.26	113	114	70.0-130			0.235	25
1,2-Dibromoethane	3.75	4.16	4.11	111	110	70.0-130			1.21	25
1,2-Dichlorobenzene	3.75	4.32	4.33	115	115	70.0-130			0.231	25
1,3-Dichlorobenzene	3.75	4.25	4.25	113	113	70.0-130			0.000	25
1,4-Dichlorobenzene	3.75	4.38	4.36	117	116	70.0-130			0.458	25
1,2-Dichloroethane	3.75	4.25	4.16	113	111	70.0-130			2.14	25
1,1-Dichloroethane	3.75	3.77	3.84	101	102	70.0-130			1.84	25
1,1-Dichloroethene	3.75	3.79	3.74	101	99.7	70.0-130			1.33	25
cis-1,2-Dichloroethene	3.75	3.64	3.73	97.1	99.5	70.0-130			2.44	25
trans-1,2-Dichloroethene	3.75	3.85	3.87	103	103	70.0-130			0.518	25
1,2-Dichloropropane	3.75	3.73	3.80	99.5	101	70.0-130			1.86	25
cis-1,3-Dichloropropene	3.75	3.84	3.95	102	105	70.0-130			2.82	25
trans-1,3-Dichloropropene	3.75	4.00	4.02	107	107	70.0-130			0.499	25
1,4-Dioxane	3.75	4.28	4.23	114	113	70.0-140			1.18	25
Ethanol	3.75	3.63	3.63	96.8	96.8	55.0-148			0.000	25
Ethylbenzene	3.75	3.99	4.06	106	108	70.0-130			1.74	25
4-Ethyltoluene	3.75	4.19	4.20	112	112	70.0-130			0.238	25
Trichlorofluoromethane	3.75	4.29	4.29	114	114	70.0-130			0.000	25
Dichlorodifluoromethane	3.75	3.66	3.97	97.6	106	64.0-139			8.13	25
1,1,2-Trichlorotrifluoroethane	3.75	4.01	4.02	107	107	70.0-130			0.249	25
1,2-Dichlorotetrafluoroethane	3.75	4.05	4.28	108	114	70.0-130			5.52	25
Heptane	3.75	4.69	4.63	125	123	70.0-130			1.29	25
Hexachloro-1,3-butadiene	3.75	4.29	4.20	114	112	70.0-151			2.12	25
Isopropylbenzene	3.75	4.19	4.22	112	113	70.0-130			0.713	25
Methylene Chloride	3.75	3.77	3.77	101	101	70.0-130			0.000	25
Methyl Butyl Ketone	3.75	4.14	4.22	110	113	70.0-149			1.91	25
Methyl Ethyl Ketone	3.75	3.83	3.84	102	102	70.0-130			0.261	25
4-Methyl-2-pentanone (MIBK)	3.75	4.08	4.09	109	109	70.0-139			0.245	25
Methyl Methacrylate	3.75	3.92	4.01	105	107	70.0-130			2.27	25
MTBE	3.75	3.79	3.92	101	105	70.0-130			3.37	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3901182-1 03/13/23 08:48 • (LCSD) R3901182-2 03/13/23 09:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	3.75	4.33	4.21	115	112	70.0-159			2.81	25
2-Propanol	3.75	3.84	3.91	102	104	70.0-139			1.81	25
Propene	3.75	3.93	3.93	105	105	64.0-144			0.000	25
Styrene	3.75	4.29	4.34	114	116	70.0-130			1.16	25
1,1,2,2-Tetrachloroethane	3.75	3.88	3.91	103	104	70.0-130			0.770	25
Tetrachloroethylene	3.75	4.26	4.33	114	115	70.0-130			1.63	25
Tetrahydrofuran	3.75	3.64	3.71	97.1	98.9	70.0-137			1.90	25
1,2,4-Trichlorobenzene	3.75	4.25	3.98	113	106	70.0-160			6.56	25
1,1,1-Trichloroethane	3.75	4.14	4.15	110	111	70.0-130			0.241	25
1,1,2-Trichloroethane	3.75	4.06	4.12	108	110	70.0-130			1.47	25
Trichloroethylene	3.75	3.95	3.99	105	106	70.0-130			1.01	25
1,2,4-Trimethylbenzene	3.75	4.41	4.36	118	116	70.0-130			1.14	25
1,3,5-Trimethylbenzene	3.75	4.36	4.40	116	117	70.0-130			0.913	25
2,2,4-Trimethylpentane	3.75	3.69	3.74	98.4	99.7	70.0-130			1.35	25
Vinyl chloride	3.75	3.92	3.99	105	106	70.0-130			1.77	25
Vinyl Bromide	3.75	3.98	4.01	106	107	70.0-130			0.751	25
Vinyl acetate	3.75	3.77	3.82	101	102	70.0-130			1.32	25
m&p-Xylene	7.50	8.15	8.16	109	109	70.0-130			0.123	25
o-Xylene	3.75	4.03	4.09	107	109	70.0-130			1.48	25
TPH (GC/MS) Low Fraction	203	190	192	93.6	94.6	70.0-130			1.05	25
(S) 1,4-Bromofluorobenzene				97.4	97.5	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1594128-01](#)

Method Blank (MB)

(MB) R3901455-3 03/15/23 09:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
Toluene	U		0.0870	0.500
(S) 1,4-Bromofluorobenzene	97.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3901455-1 03/15/23 08:47 • (LCSD) R3901455-2 03/15/23 09:17

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.69	4.73	125	126	70.0-130			0.849	25
Toluene	3.75	4.28	4.30	114	115	70.0-130			0.466	25
(S) 1,4-Bromofluorobenzene				102	102	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

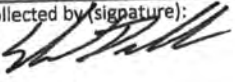
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701		Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>2</u> of <u>2</u>	
Report to: Beaux Jennings		Email To: bjennings@ensolum.com				1220										 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5856 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf SDG # <u>L 1594128</u> Table # Acctnum: ENSOLUMMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB: Shipped Via:	
Project Description: Levey Well		City/State Collected: Hobbs NM		Please Circle: PT MT CT ET													
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMMTX-SUMMA													
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		P.O. # 03B1417001													
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day		Quote #													
Immediately Packed on Ice N ☒ X ☐ Y ☐		Date Results Needed		No. of Cntrs		TO-15 Summa											
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time												
Levey Well	G	Air	—	3-8-23	1313												

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N If Applicable

COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

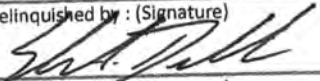
*** Matrix:**
 SS - Soil **AIR** - Air **F** - Filter
 GW - Groundwater **B** - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other _____

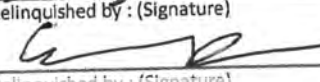
Remarks:

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier _____

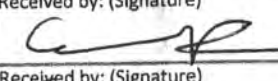
Tracking # _____

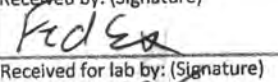
pH _____ Temp _____
 Flow _____ Other _____

Relinquished by: (Signature)  Date: 3/10/23 Time: 1130

Relinquished by: (Signature)  Date: 3/10/23 Time: 1700

Relinquished by: (Signature)  Date: _____ Time: _____

Received by: (Signature)  Trip Blank Received: Yes / No
HCL / MeOH
TBR

Received by: (Signature)  Temp: _____ °C Bottles Received: _____

Received for lab by: (Signature)  Date: 3/11/23 Time: 0900

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☒ Y ☐ N

COC Signed/Accurate: ☐ Y ☒ N

Bottles arrive intact: ☐ Y ☒ N

Correct bottles used: ☐ Y ☒ N

Sufficient volume sent: ☐ Y ☒ N

If Applicable

VOA Zero Headspace: ☐ Y ☒ N

Preservation Correct/Checked: ☐ Y ☒ N

RAD Screen <0.5 mR/hr: ☐ Y ☒ N

If preservation required by Login: Date/Time

Hold: _____ Condition: **NCF / OK**



ANALYTICAL REPORT

March 22, 2023

Ensolum, LLC

Sample Delivery Group: L1595907
Samples Received: 03/17/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

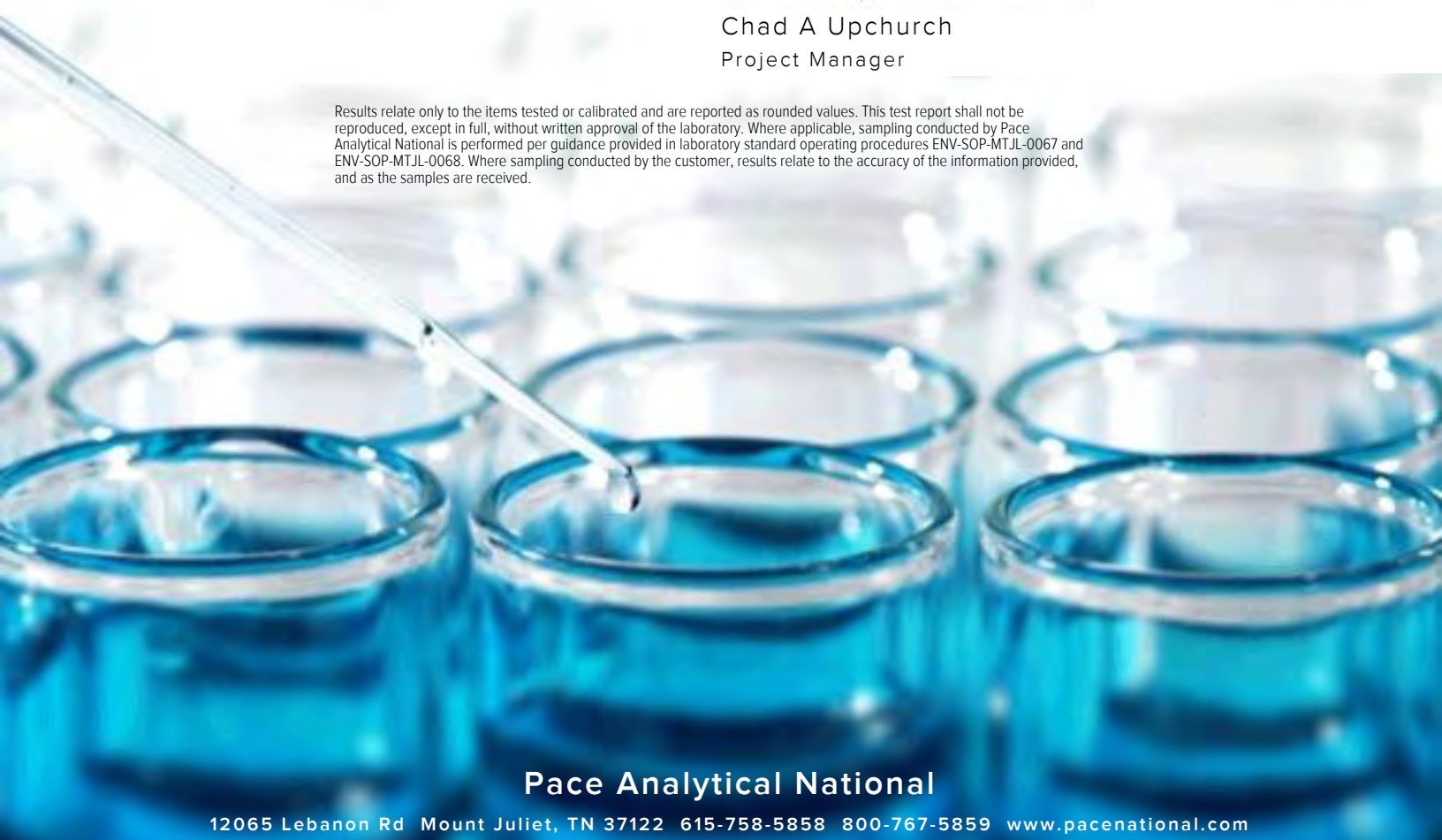


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1595907-01	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 L1595907-01 Air

Collected by
Shane Diller

Collected date/time
03/15/23 11:00

Received date/time
03/17/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2026052	100	03/19/23 23:15	03/19/23 23:15	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2027926	1000	03/22/23 13:03	03/22/23 13:03	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



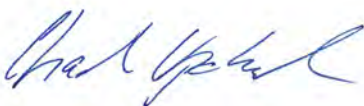
Chad A Upchurch
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 03/22/2023 16:57					
Project Name: Levey Well		Laboratory Job Number: L1595907-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2026052 and WG2027926					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 03/22/2023 16:57				
Project Name: Levey Well			Laboratory Job Number: L1595907-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2026052 and WG2027926				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/22/2023 16:57	
Project Name: Levey Well		Laboratory Job Number: L1595907-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2026052 and WG2027926	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/15/23 11:00

L1595907

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	WG2026052
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2026052
Benzene	71-43-2	78.10	20.0	63.9	269	859		100	WG2026052
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2026052
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2026052
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2026052
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2026052
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2026052
Carbon disulfide	75-15-0	76.10	20.0	62.2	450	1400		100	WG2026052
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2026052
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2026052
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2026052
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2026052
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2026052
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2026052
Cyclohexane	110-82-7	84.20	20.0	68.9	7310	25200		100	WG2026052
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2026052
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2026052
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2026052
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2026052
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2026052
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2026052
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2026052
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2026052
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2026052
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2026052
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2026052
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2026052
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2026052
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2026052
Ethanol	64-17-5	46.10	125	236	802	1510		100	WG2026052
Ethylbenzene	100-41-4	106	20.0	86.7	5510	23900		100	WG2026052
4-Ethyltoluene	622-96-8	120	20.0	98.2	271	1330		100	WG2026052
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2026052
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2026052
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2026052
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2026052
Heptane	142-82-5	100	20.0	81.8	5290	21600		100	WG2026052
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2026052
n-Hexane	110-54-3	86.20	630	2220	11700	41200		1000	WG2027926
Isopropylbenzene	98-82-8	120.20	20.0	98.3	622	3060		100	WG2026052
Methylene Chloride	75-09-2	84.90	20.0	69.4	33.5	116		100	WG2026052
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2026052
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2026052
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2026052
Methyl methacrylate	80-62-6	100.12	20.0	81.9	259	1060		100	WG2026052
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2026052
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2026052
2-Propanol	67-63-0	60.10	125	307	1500	3690		100	WG2026052
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2026052
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2026052
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2026052
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2026052
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2026052
Toluene	108-88-3	92.10	50.0	188	5760	21700		100	WG2026052
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2026052



Collected date/time: 03/15/23 11:00

L1595907

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	WG2026052
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2026052
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2026052
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	392	1920		100	WG2026052
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	173	849		100	WG2026052
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2026052
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2026052
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2026052
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2026052
m&p-Xylene	1330-20-7	106	40.0	173	4030	17500		100	WG2026052
o-Xylene	95-47-6	106	20.0	86.7	1780	7720		100	WG2026052
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	229000	946000		100	WG2026052
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2026052
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2027926

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (MS) by Method TO-15

L1595907-01

Method Blank (MB)

(MB) R3903687-2 03/19/23 07:40

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

L1595907-01

Method Blank (MB)

(MB) R3903687-2 03/19/23 07:40

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	48.7	⬇	39.7	200
(S) 1,4-Bromofluorobenzene	91.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3903687-1 03/19/23 07:12 • (LCSD) R3903687-3 03/19/23 08:59

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	3.48	3.91	92.8	104	70.0-130			11.6	25
Allyl Chloride	3.75	3.88	3.81	103	102	70.0-130			1.82	25
Benzene	3.75	3.20	3.24	85.3	86.4	70.0-130			1.24	25
Benzyl Chloride	3.75	3.39	3.49	90.4	93.1	70.0-152			2.91	25
Bromodichloromethane	3.75	3.05	3.14	81.3	83.7	70.0-130			2.91	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3903687-1 03/19/23 07:12 • (LCSD) R3903687-3 03/19/23 08:59

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	3.44	3.55	91.7	94.7	70.0-130			3.15	25
Bromomethane	3.75	3.62	3.54	96.5	94.4	70.0-130			2.23	25
1,3-Butadiene	3.75	3.69	3.51	98.4	93.6	70.0-130			5.00	25
Carbon disulfide	3.75	3.76	3.79	100	101	70.0-130			0.795	25
Carbon tetrachloride	3.75	3.17	3.19	84.5	85.1	70.0-130			0.629	25
Chlorobenzene	3.75	3.21	3.25	85.6	86.7	70.0-130			1.24	25
Chloroethane	3.75	3.58	3.47	95.5	92.5	70.0-130			3.12	25
Chloroform	3.75	3.17	3.21	84.5	85.6	70.0-130			1.25	25
Chloromethane	3.75	3.77	3.57	101	95.2	70.0-130			5.45	25
2-Chlorotoluene	3.75	3.49	3.56	93.1	94.9	70.0-130			1.99	25
Cyclohexane	3.75	3.42	3.39	91.2	90.4	70.0-130			0.881	25
Dibromochloromethane	3.75	3.17	3.21	84.5	85.6	70.0-130			1.25	25
1,2-Dibromoethane	3.75	3.25	3.31	86.7	88.3	70.0-130			1.83	25
1,2-Dichlorobenzene	3.75	3.47	3.51	92.5	93.6	70.0-130			1.15	25
1,3-Dichlorobenzene	3.75	3.58	3.65	95.5	97.3	70.0-130			1.94	25
1,4-Dichlorobenzene	3.75	3.69	3.71	98.4	98.9	70.0-130			0.541	25
1,2-Dichloroethane	3.75	2.93	2.99	78.1	79.7	70.0-130			2.03	25
1,1-Dichloroethane	3.75	3.21	3.19	85.6	85.1	70.0-130			0.625	25
1,1-Dichloroethene	3.75	3.73	3.72	99.5	99.2	70.0-130			0.268	25
cis-1,2-Dichloroethene	3.75	3.22	3.22	85.9	85.9	70.0-130			0.000	25
trans-1,2-Dichloroethene	3.75	3.72	3.65	99.2	97.3	70.0-130			1.90	25
1,2-Dichloropropane	3.75	3.12	3.16	83.2	84.3	70.0-130			1.27	25
cis-1,3-Dichloropropene	3.75	3.21	3.28	85.6	87.5	70.0-130			2.16	25
trans-1,3-Dichloropropene	3.75	3.22	3.22	85.9	85.9	70.0-130			0.000	25
1,4-Dioxane	3.75	3.18	3.25	84.8	86.7	70.0-140			2.18	25
Ethanol	3.75	3.42	3.40	91.2	90.7	55.0-148			0.587	25
Ethylbenzene	3.75	3.50	3.56	93.3	94.9	70.0-130			1.70	25
4-Ethyltoluene	3.75	3.71	3.77	98.9	101	70.0-130			1.60	25
Trichlorofluoromethane	3.75	3.76	3.61	100	96.3	70.0-130			4.07	25
Dichlorodifluoromethane	3.75	3.95	3.75	105	100	64.0-139			5.19	25
1,1,2-Trichlorotrifluoroethane	3.75	3.67	3.69	97.9	98.4	70.0-130			0.543	25
1,2-Dichlorotetrafluoroethane	3.75	3.76	3.62	100	96.5	70.0-130			3.79	25
Heptane	3.75	3.37	3.37	89.9	89.9	70.0-130			0.000	25
Hexachloro-1,3-butadiene	3.75	3.76	3.88	100	103	70.0-151			3.14	25
Isopropylbenzene	3.75	3.50	3.59	93.3	95.7	70.0-130			2.54	25
Methylene Chloride	3.75	3.61	3.55	96.3	94.7	70.0-130			1.68	25
Methyl Butyl Ketone	3.75	3.25	3.26	86.7	86.9	70.0-149			0.307	25
Methyl Ethyl Ketone	3.75	3.35	3.29	89.3	87.7	70.0-130			1.81	25
4-Methyl-2-pentanone (MIBK)	3.75	3.41	3.40	90.9	90.7	70.0-139			0.294	25
Methyl Methacrylate	3.75	3.26	3.27	86.9	87.2	70.0-130			0.306	25

¹Cp

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3903687-1 03/19/23 07:12 • (LCSD) R3903687-3 03/19/23 08:59

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	3.42	3.37	91.2	89.9	70.0-130			1.47	25
Naphthalene	3.75	3.95	4.02	105	107	70.0-159			1.76	25
2-Propanol	3.75	3.70	3.50	98.7	93.3	70.0-139			5.56	25
Propene	3.75	3.38	3.37	90.1	89.9	64.0-144			0.296	25
Styrene	3.75	3.61	3.66	96.3	97.6	70.0-130			1.38	25
1,1,2,2-Tetrachloroethane	3.75	3.37	3.50	89.9	93.3	70.0-130			3.78	25
Tetrachloroethylene	3.75	3.42	3.43	91.2	91.5	70.0-130			0.292	25
Tetrahydrofuran	3.75	3.24	3.22	86.4	85.9	70.0-137			0.619	25
Toluene	3.75	3.37	3.38	89.9	90.1	70.0-130			0.296	25
1,2,4-Trichlorobenzene	3.75	3.80	3.78	101	101	70.0-160			0.528	25
1,1,1-Trichloroethane	3.75	3.16	3.17	84.3	84.5	70.0-130			0.316	25
1,1,2-Trichloroethane	3.75	3.18	3.21	84.8	85.6	70.0-130			0.939	25
Trichloroethylene	3.75	3.18	3.22	84.8	85.9	70.0-130			1.25	25
1,2,4-Trimethylbenzene	3.75	3.78	3.85	101	103	70.0-130			1.83	25
1,3,5-Trimethylbenzene	3.75	3.67	3.72	97.9	99.2	70.0-130			1.35	25
2,2,4-Trimethylpentane	3.75	3.41	3.38	90.9	90.1	70.0-130			0.884	25
Vinyl chloride	3.75	3.74	3.63	99.7	96.8	70.0-130			2.99	25
Vinyl Bromide	3.75	3.66	3.60	97.6	96.0	70.0-130			1.65	25
Vinyl acetate	3.75	2.95	3.12	78.7	83.2	70.0-130			5.60	25
m&p-Xylene	7.50	7.26	7.43	96.8	99.1	70.0-130			2.31	25
o-Xylene	3.75	3.63	3.69	96.8	98.4	70.0-130			1.64	25
TPH (GC/MS) Low Fraction	203	186	184	91.6	90.6	70.0-130			1.08	25
(S) 1,4-Bromofluorobenzene				93.1	92.7	60.0-140				

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Volatile Organic Compounds (MS) by Method TO-15

L1595907-01

Method Blank (MB)

(MB) R3904091-2 03/22/23 09:33

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	96.9			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3904091-1 03/22/23 09:05 • (LCSD) R3904091-3 03/22/23 10:02

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	3.88	4.16	103	111	70.0-130			6.97	25
(S) 1,4-Bromofluorobenzene				101	101	60.0-140				

1Cp

2Tc

3Ss

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6Sr

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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

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3Ss

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10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

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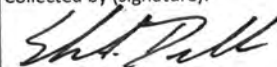
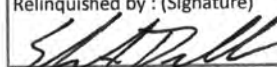
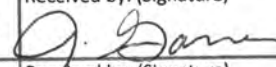
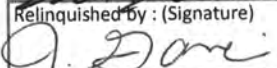
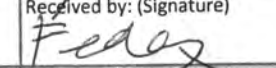
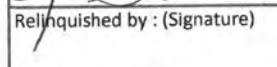
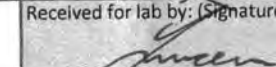
⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701		Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>1</u>  12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf				
Report to: Beaux Jennings		Email To: bjennings@ensolum.com														SDG # L1595907 I097 Acctnum: ENSOLUMMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB:				
Project Description: Levey Well		City/State Collected: Hobbs NM		Please Circle: PT MT CT ET												Shipped Via:				
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMMTX-SUMMA												Remarks				
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		P.O. # 03B1417001												Sample # (lab only)				
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												No. of Cntrs				
Immediately Packed on Ice ☒ ☐ ☐																				
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	TO-15 Summa													
Levey Well		G	Air	—	3-15-23	1100	1	X											-01	
Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N IF Applicable COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N																				
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		pH _____ Temp _____ Flow _____ Other _____												Sample Receipt Checklist COC Seal Present/Intact: ☐ NP ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N IF Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N				
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #												Trip Blank Received: Yes / No HCL / MeOH TBR						
Relinquished by : (Signature) 		Date: 3/14/23	Time: 2:05	Received by: (Signature) 		Temp: °C		Bottles Received:		If preservation required by Login: Date/Time				Hold:		Condition: NCF (OK)				
Relinquished by : (Signature) 		Date: 3/14/23	Time: 5:00	Received by: (Signature) 		Date:		Time:		3/17/23 0915				Hold:		Condition:				
Relinquished by : (Signature) 		Date:	Time:	Received for lab by: (Signature) 		Date:		Time:		3/17/23 0915				Hold:		Condition:				



ANALYTICAL REPORT

March 27, 2023

Ensolum, LLC

Sample Delivery Group: L1597128
Samples Received: 03/22/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

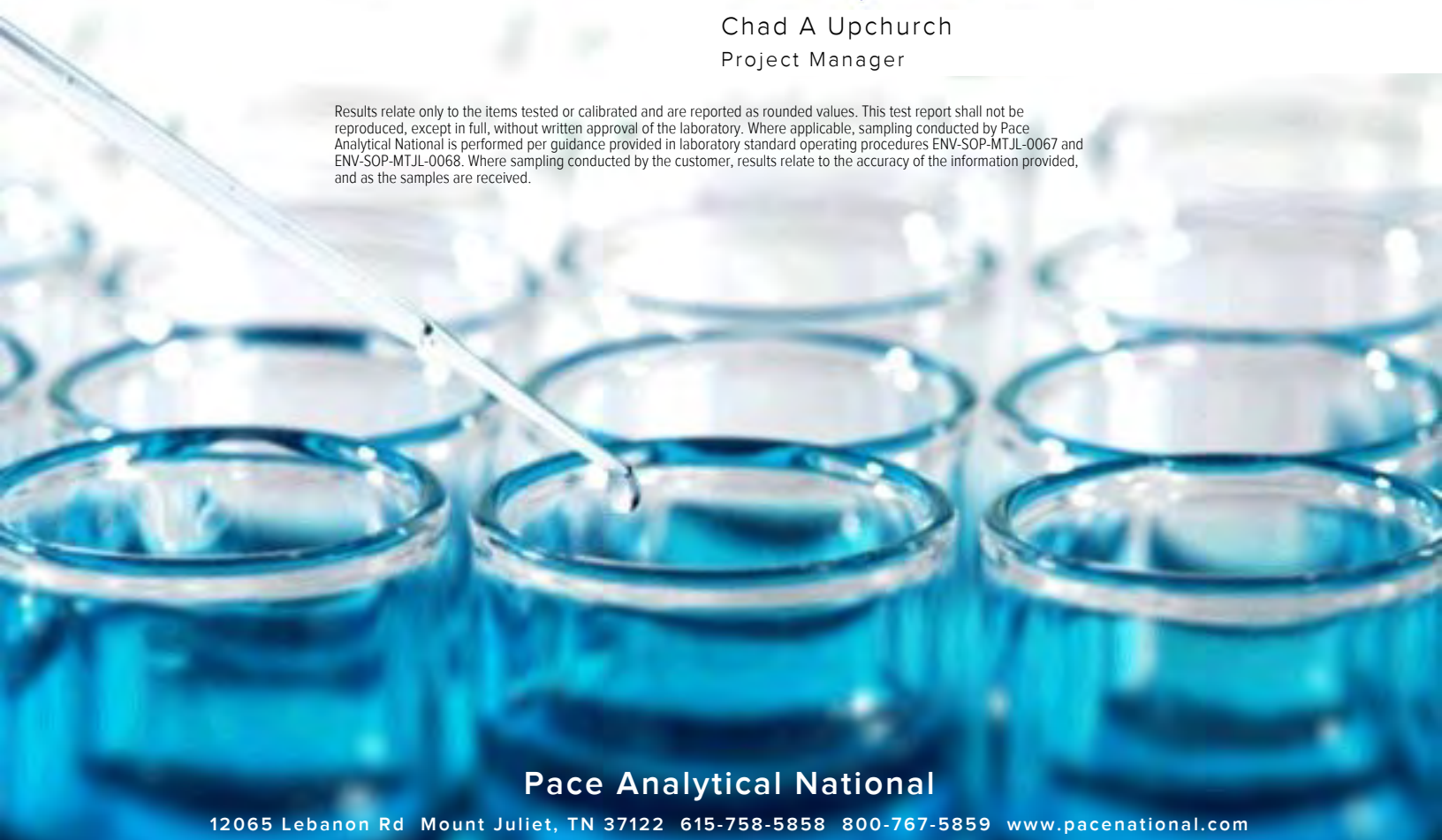


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1597128-01	9	⁶ Sr
LEVEY WELL L1597128-02	11	
LEVEY WELL L1597128-03	13	⁷ Qc
LEVEY WELL L1597128-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	22	
Al: Accreditations & Locations	23	¹⁰ Sc
Sc: Sample Chain of Custody	24	

LEVEY WELL L1597128-01 Air

Collected by
Shane Diller

Collected date/time
03/20/23 10:23

Received date/time
03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2029485	100	03/24/23 23:11	03/24/23 23:11	SDS	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2030253	1000	03/26/23 15:38	03/26/23 15:38	CEP	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

LEVEY WELL L1597128-02 Air

Collected by
Shane Diller

Collected date/time
03/20/23 11:32

Received date/time
03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2029485	100	03/24/23 23:52	03/24/23 23:52	SDS	Mt. Juliet, TN

LEVEY WELL L1597128-03 Air

Collected by
Shane Diller

Collected date/time
03/20/23 12:40

Received date/time
03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2029485	100	03/25/23 00:34	03/25/23 00:34	SDS	Mt. Juliet, TN

LEVEY WELL L1597128-04 Air

Collected by
Shane Diller

Collected date/time
03/20/23 13:42

Received date/time
03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2029485	100	03/25/23 01:16	03/25/23 01:16	SDS	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.



Chad A Upchurch
Project Manager

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Tr
- ⁶Sr
- ⁷Qc
- ⁸Gl
- ⁹Al
- ¹⁰Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 03/27/2023 16:29				
Project Name: Levey Well			Laboratory Job Number: L1597128-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2029485 and WG2030253				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?		X			1
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 03/27/2023 16:29				
Project Name: Levey Well			Laboratory Job Number: L1597128-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2029485 and WG2030253				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/27/2023 16:29	
Project Name: Levey Well		Laboratory Job Number: L1597128-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2029485 and WG2030253	
ER #¹	Description		
1	TO-15 WG2029485 Chloroethane: Relative Percent Difference is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/20/23 10:23

L1597128

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	653	1550		100	WG2029485
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2029485
Benzene	71-43-2	78.10	20.0	63.9	100	319		100	WG2029485
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2029485
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2029485
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2029485
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2029485
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2029485
Carbon disulfide	75-15-0	76.10	20.0	62.2	203	632		100	WG2029485
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2029485
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2029485
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND	J3	100	WG2029485
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2029485
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2029485
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2029485
Cyclohexane	110-82-7	84.20	20.0	68.9	3650	12600		100	WG2029485
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2029485
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2029485
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2029485
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2029485
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2029485
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2029485
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2029485
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2029485
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2029485
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2029485
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2029485
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2029485
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2029485
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2029485
Ethanol	64-17-5	46.10	125	236	1270	2390		100	WG2029485
Ethylbenzene	100-41-4	106	20.0	86.7	2430	10500		100	WG2029485
4-Ethyltoluene	622-96-8	120	20.0	98.2	74.5	366		100	WG2029485
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2029485
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2029485
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2029485
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2029485
Heptane	142-82-5	100	20.0	81.8	2810	11500		100	WG2029485
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2029485
n-Hexane	110-54-3	86.20	630	2220	16500	58200		1000	WG2030253
Isopropylbenzene	98-82-8	120.20	20.0	98.3	215	1060		100	WG2029485
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2029485
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2029485
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2029485
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2029485
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2029485
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2029485
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2029485
2-Propanol	67-63-0	60.10	125	307	1850	4550		100	WG2029485
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2029485
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2029485
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2029485
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2029485
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2029485
Toluene	108-88-3	92.10	50.0	188	2680	10100		100	WG2029485
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2029485



Collected date/time: 03/20/23 10:23

L1597128

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	WG2029485
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2029485
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2029485
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	73.8	362		100	WG2029485
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	38.7	190		100	WG2029485
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2029485
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2029485
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2029485
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2029485
m&p-Xylene	1330-20-7	106	40.0	173	1500	6500		100	WG2029485
o-Xylene	95-47-6	106	20.0	86.7	608	2640		100	WG2029485
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	167000	690000		100	WG2029485
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		103				WG2029485
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.7				WG2030253

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 03/20/23 11:32

L1597128

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	1150	2730		100	WG2029485
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2029485
Benzene	71-43-2	78.10	20.0	63.9	37.4	119		100	WG2029485
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2029485
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2029485
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2029485
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2029485
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2029485
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2029485
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2029485
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2029485
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND	J3	100	WG2029485
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2029485
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2029485
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2029485
Cyclohexane	110-82-7	84.20	20.0	68.9	1110	3820		100	WG2029485
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2029485
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2029485
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2029485
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2029485
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2029485
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2029485
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2029485
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2029485
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2029485
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2029485
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2029485
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2029485
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2029485
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2029485
Ethanol	64-17-5	46.10	125	236	1990	3750		100	WG2029485
Ethylbenzene	100-41-4	106	20.0	86.7	497	2150		100	WG2029485
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2029485
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2029485
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2029485
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2029485
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2029485
Heptane	142-82-5	100	20.0	81.8	839	3430		100	WG2029485
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2029485
n-Hexane	110-54-3	86.20	63.0	222	3670	12900		100	WG2029485
Isopropylbenzene	98-82-8	120.20	20.0	98.3	48.1	236		100	WG2029485
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2029485
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2029485
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2029485
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2029485
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2029485
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2029485
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2029485
2-Propanol	67-63-0	60.10	125	307	2100	5160		100	WG2029485
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2029485
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2029485
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2029485
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2029485
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2029485
Toluene	108-88-3	92.10	50.0	188	675	2540		100	WG2029485
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2029485

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/20/23 11:32

L1597128

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	WG2029485
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2029485
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2029485
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	25.2	124		100	WG2029485
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2029485
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2029485
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2029485
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2029485
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2029485
m&p-Xylene	1330-20-7	106	40.0	173	353	1530		100	WG2029485
o-Xylene	95-47-6	106	20.0	86.7	128	555		100	WG2029485
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	44500	184000		100	WG2029485
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2029485

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 03/20/23 12:40

L1597128

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	653	1550		100	WG2029485
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2029485
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2029485
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2029485
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2029485
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2029485
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2029485
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2029485
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2029485
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2029485
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2029485
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND	J3	100	WG2029485
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2029485
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2029485
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2029485
Cyclohexane	110-82-7	84.20	20.0	68.9	178	613		100	WG2029485
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2029485
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2029485
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2029485
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2029485
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2029485
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2029485
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2029485
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2029485
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2029485
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2029485
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2029485
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2029485
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2029485
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2029485
Ethanol	64-17-5	46.10	125	236	4170	7860		100	WG2029485
Ethylbenzene	100-41-4	106	20.0	86.7	163	707		100	WG2029485
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2029485
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2029485
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2029485
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2029485
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2029485
Heptane	142-82-5	100	20.0	81.8	144	589		100	WG2029485
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2029485
n-Hexane	110-54-3	86.20	63.0	222	810	2860		100	WG2029485
Isopropylbenzene	98-82-8	120.20	20.0	98.3	32.5	160		100	WG2029485
Methylene Chloride	75-09-2	84.90	20.0	69.4	105	365		100	WG2029485
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2029485
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2029485
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2029485
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2029485
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2029485
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2029485
2-Propanol	67-63-0	60.10	125	307	1280	3150		100	WG2029485
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2029485
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2029485
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2029485
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2029485
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2029485
Toluene	108-88-3	92.10	50.0	188	183	689		100	WG2029485
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2029485



Collected date/time: 03/20/23 12:40 L1597128

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	WG2029485
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2029485
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2029485
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	20.1	98.7		100	WG2029485
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2029485
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2029485
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2029485
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2029485
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2029485
m&p-Xylene	1330-20-7	106	40.0	173	174	754		100	WG2029485
o-Xylene	95-47-6	106	20.0	86.7	65.3	283		100	WG2029485
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2029485
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2029485

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 03/20/23 13:42

L1597128

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	846	2010		100	WG2029485
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2029485
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2029485
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2029485
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2029485
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2029485
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2029485
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2029485
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2029485
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2029485
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2029485
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND	J3	100	WG2029485
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2029485
Chloromethane	74-87-3	50.50	20.0	41.3	20.6	42.5		100	WG2029485
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2029485
Cyclohexane	110-82-7	84.20	20.0	68.9	1230	4240		100	WG2029485
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2029485
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2029485
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2029485
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2029485
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2029485
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2029485
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2029485
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2029485
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2029485
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2029485
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2029485
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2029485
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2029485
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2029485
Ethanol	64-17-5	46.10	125	236	5630	10600		100	WG2029485
Ethylbenzene	100-41-4	106	20.0	86.7	969	4200		100	WG2029485
4-Ethyltoluene	622-96-8	120	20.0	98.2	22.1	108		100	WG2029485
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2029485
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2029485
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2029485
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2029485
Heptane	142-82-5	100	20.0	81.8	1170	4790		100	WG2029485
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2029485
n-Hexane	110-54-3	86.20	63.0	222	4460	15700		100	WG2029485
Isopropylbenzene	98-82-8	120.20	20.0	98.3	86.5	425		100	WG2029485
Methylene Chloride	75-09-2	84.90	20.0	69.4	135	469		100	WG2029485
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2029485
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2029485
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2029485
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2029485
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2029485
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2029485
2-Propanol	67-63-0	60.10	125	307	2830	6960		100	WG2029485
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2029485
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2029485
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2029485
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2029485
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2029485
Toluene	108-88-3	92.10	50.0	188	1130	4260		100	WG2029485
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2029485

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/20/23 13:42

L1597128

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	WG2029485
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2029485
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2029485
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	33.8	166		100	WG2029485
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2029485
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2029485
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2029485
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2029485
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2029485
m&p-Xylene	1330-20-7	106	40.0	173	733	3180		100	WG2029485
o-Xylene	95-47-6	106	20.0	86.7	265	1150		100	WG2029485
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	67900	280000		100	WG2029485
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2029485

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Tr
- 6Sr
- 7Qc
- 8Gl
- 9Al
- 10Sc

Method Blank (MB)

(MB) R3905218-3 03/24/23 10:34

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

L1597128-01,02,03,04

Method Blank (MB)

(MB) R3905218-3 03/24/23 10:34

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.159	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	98.4			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905218-1 03/24/23 09:11 • (LCSD) R3905218-2 03/24/23 09:53

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	4.02	3.96	107	106	70.0-130			1.50	25
Allyl Chloride	3.75	4.10	4.00	109	107	70.0-130			2.47	25
Benzene	3.75	4.04	3.95	108	105	70.0-130			2.25	25
Benzyl Chloride	3.75	4.15	4.12	111	110	70.0-152			0.726	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905218-1 03/24/23 09:11 • (LCSD) R3905218-2 03/24/23 09:53

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.03	3.97	107	106	70.0-130			1.50	25
Bromoform	3.75	3.94	3.86	105	103	70.0-130			2.05	25
Bromomethane	3.75	3.97	3.99	106	106	70.0-130			0.503	25
1,3-Butadiene	3.75	4.03	4.02	107	107	70.0-130			0.248	25
Carbon disulfide	3.75	3.95	3.87	105	103	70.0-130			2.05	25
Carbon tetrachloride	3.75	3.99	3.97	106	106	70.0-130			0.503	25
Chlorobenzene	3.75	3.97	3.95	106	105	70.0-130			0.505	25
Chloroethane	3.75	4.06	3.05	108	81.3	70.0-130		J3	28.4	25
Chloroform	3.75	3.95	3.92	105	105	70.0-130			0.762	25
Chloromethane	3.75	4.01	4.00	107	107	70.0-130			0.250	25
2-Chlorotoluene	3.75	3.95	3.96	105	106	70.0-130			0.253	25
Cyclohexane	3.75	3.97	3.90	106	104	70.0-130			1.78	25
Dibromochloromethane	3.75	4.03	3.95	107	105	70.0-130			2.01	25
1,2-Dibromoethane	3.75	4.07	3.99	109	106	70.0-130			1.99	25
1,2-Dichlorobenzene	3.75	3.96	3.95	106	105	70.0-130			0.253	25
1,3-Dichlorobenzene	3.75	4.06	3.99	108	106	70.0-130			1.74	25
1,4-Dichlorobenzene	3.75	4.07	4.05	109	108	70.0-130			0.493	25
1,2-Dichloroethane	3.75	4.02	4.00	107	107	70.0-130			0.499	25
1,1-Dichloroethane	3.75	4.02	3.96	107	106	70.0-130			1.50	25
1,1-Dichloroethene	3.75	3.98	3.94	106	105	70.0-130			1.01	25
cis-1,2-Dichloroethene	3.75	3.96	3.93	106	105	70.0-130			0.760	25
trans-1,2-Dichloroethene	3.75	4.01	3.90	107	104	70.0-130			2.78	25
1,2-Dichloropropane	3.75	3.96	3.88	106	103	70.0-130			2.04	25
cis-1,3-Dichloropropene	3.75	4.08	4.04	109	108	70.0-130			0.985	25
trans-1,3-Dichloropropene	3.75	4.10	4.11	109	110	70.0-130			0.244	25
1,4-Dioxane	3.75	3.84	3.72	102	99.2	70.0-140			3.17	25
Ethanol	3.75	3.90	3.84	104	102	55.0-148			1.55	25
Ethylbenzene	3.75	4.13	4.05	110	108	70.0-130			1.96	25
4-Ethyltoluene	3.75	3.96	4.03	106	107	70.0-130			1.75	25
Trichlorofluoromethane	3.75	4.04	3.98	108	106	70.0-130			1.50	25
Dichlorodifluoromethane	3.75	4.01	4.02	107	107	64.0-139			0.249	25
1,1,2-Trichlorotrifluoroethane	3.75	4.01	3.97	107	106	70.0-130			1.00	25
1,2-Dichlorotetrafluoroethane	3.75	4.02	3.91	107	104	70.0-130			2.77	25
Heptane	3.75	4.09	3.92	109	105	70.0-130			4.24	25
Hexachloro-1,3-butadiene	3.75	4.02	3.95	107	105	70.0-151			1.76	25
n-Hexane	3.75	4.05	3.97	108	106	70.0-130			2.00	25
Isopropylbenzene	3.75	3.98	3.90	106	104	70.0-130			2.03	25
Methylene Chloride	3.75	4.02	3.94	107	105	70.0-130			2.01	25
Methyl Butyl Ketone	3.75	3.85	3.79	103	101	70.0-149			1.57	25
Methyl Ethyl Ketone	3.75	3.93	3.96	105	106	70.0-130			0.760	25

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905218-1 03/24/23 09:11 • (LCSD) R3905218-2 03/24/23 09:53

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.92	3.89	105	104	70.0-139			0.768	25
Methyl Methacrylate	3.75	4.60	4.57	123	122	70.0-130			0.654	25
MTBE	3.75	4.07	3.95	109	105	70.0-130			2.99	25
Naphthalene	3.75	4.06	4.02	108	107	70.0-159			0.990	25
2-Propanol	3.75	4.00	3.91	107	104	70.0-139			2.28	25
Propene	3.75	3.96	3.91	106	104	64.0-144			1.27	25
Styrene	3.75	4.03	4.01	107	107	70.0-130			0.498	25
1,1,2,2-Tetrachloroethane	3.75	3.97	3.90	106	104	70.0-130			1.78	25
Tetrachloroethylene	3.75	4.02	3.92	107	105	70.0-130			2.52	25
Tetrahydrofuran	3.75	4.02	3.94	107	105	70.0-137			2.01	25
Toluene	3.75	4.04	3.97	108	106	70.0-130			1.75	25
1,2,4-Trichlorobenzene	3.75	3.96	4.09	106	109	70.0-160			3.23	25
1,1,1-Trichloroethane	3.75	4.01	3.95	107	105	70.0-130			1.51	25
1,1,2-Trichloroethane	3.75	4.01	3.98	107	106	70.0-130			0.751	25
Trichloroethylene	3.75	3.97	3.97	106	106	70.0-130			0.000	25
1,2,4-Trimethylbenzene	3.75	3.97	3.92	106	105	70.0-130			1.27	25
1,3,5-Trimethylbenzene	3.75	4.01	3.82	107	102	70.0-130			4.85	25
2,2,4-Trimethylpentane	3.75	3.92	3.84	105	102	70.0-130			2.06	25
Vinyl chloride	3.75	4.00	3.89	107	104	70.0-130			2.79	25
Vinyl Bromide	3.75	4.04	3.95	108	105	70.0-130			2.25	25
Vinyl acetate	3.75	4.15	4.19	111	112	70.0-130			0.959	25
m&p-Xylene	7.50	8.07	7.89	108	105	70.0-130			2.26	25
o-Xylene	3.75	3.92	3.93	105	105	70.0-130			0.255	25
TPH (GC/MS) Low Fraction	203	188	184	92.6	90.6	70.0-130			2.15	25
(S) 1,4-Bromofluorobenzene				98.5	98.7	60.0-140				

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Volatile Organic Compounds (MS) by Method TO-15

L1597128-01

Method Blank (MB)

(MB) R3905611-3 03/26/23 08:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	99.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905611-1 03/26/23 07:04 • (LCSD) R3905611-2 03/26/23 07:47

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	3.15	3.38	84.0	90.1	70.0-130			7.04	25
(S) 1,4-Bromofluorobenzene				97.1	99.3	60.0-140				

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

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Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Released to Imaging: 1/25/2024 9:02:29 AM



ANALYTICAL REPORT

March 31, 2023

Ensolum, LLC

Sample Delivery Group: L1598893
Samples Received: 03/28/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

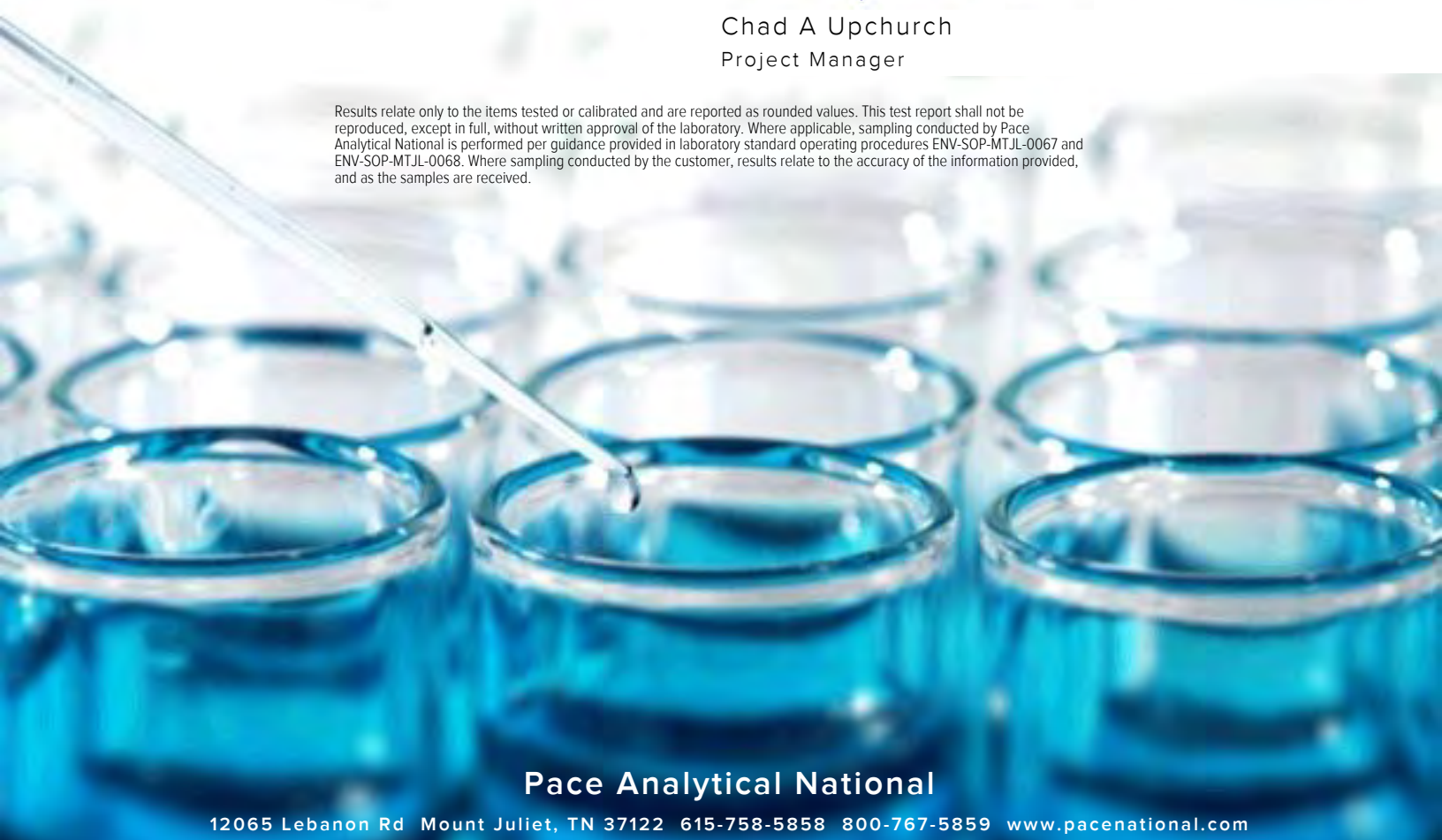


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1598893-01	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 L1598893-01 Air

Collected by
Shane Diller

Collected date/time
03/23/23 12:59

Received date/time
03/28/23 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2032750	100	03/30/23 15:55	03/30/23 15:55	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2033478	1000	03/31/23 12:19	03/31/23 12:19	SDS	Mt. Juliet, TN

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

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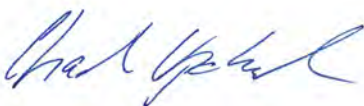
¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 03/31/2023 17:20				
Project Name: Levey Well			Laboratory Job Number: L1598893-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2032750 and WG2033478				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 03/31/2023 17:20				
Project Name: Levey Well			Laboratory Job Number: L1598893-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2032750 and WG2033478				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/31/2023 17:20	
Project Name: Levey Well		Laboratory Job Number: L1598893-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2032750 and WG2033478	
ER # ¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/23/23 12:59

L1598893

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	542	1290		100	WG2032750
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2032750
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2032750
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2032750
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2032750
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2032750
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2032750
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2032750
Carbon disulfide	75-15-0	76.10	20.0	62.2	335	1040		100	WG2032750
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2032750
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2032750
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2032750
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2032750
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2032750
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2032750
Cyclohexane	110-82-7	84.20	20.0	68.9	6330	21800		100	WG2032750
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2032750
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2032750
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2032750
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2032750
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2032750
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2032750
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2032750
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2032750
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2032750
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2032750
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2032750
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2032750
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2032750
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2032750
Ethanol	64-17-5	46.10	125	236	696	1310		100	WG2032750
Ethylbenzene	100-41-4	106	20.0	86.7	4210	18300		100	WG2032750
4-Ethyltoluene	622-96-8	120	20.0	98.2	687	3370		100	WG2032750
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2032750
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2032750
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2032750
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2032750
Heptane	142-82-5	100	20.0	81.8	ND	ND		100	WG2032750
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2032750
n-Hexane	110-54-3	86.20	630	2220	28200	99400		1000	WG2033478
Isopropylbenzene	98-82-8	120.20	20.0	98.3	535	2630		100	WG2032750
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2032750
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2032750
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2032750
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2032750
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2032750
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2032750
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2032750
2-Propanol	67-63-0	60.10	125	307	1330	3270		100	WG2032750
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2032750
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2032750
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2032750
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2032750
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2032750
Toluene	108-88-3	92.10	50.0	188	2600	9790		100	WG2032750
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2032750

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/23/23 12:59

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	WG2032750
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2032750
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2032750
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	247	1210		100	WG2032750
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	134	658		100	WG2032750
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2032750
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2032750
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2032750
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2032750
m&p-Xylene	1330-20-7	106	40.0	173	3080	13400		100	WG2032750
o-Xylene	95-47-6	106	20.0	86.7	1360	5900		100	WG2032750
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	282000	1160000		100	WG2032750
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		108				WG2032750
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.9				WG2033478

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1598893-01](#)

Method Blank (MB)

(MB) R3907360-3 03/30/23 09:49

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
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

L1598893-01

Method Blank (MB)

(MB) R3907360-3 03/30/23 09:49

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	96.6			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907360-1 03/30/23 08:34 • (LCSD) R3907360-2 03/30/23 09:12

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.44	3.46	91.7	92.3	70.0-130			0.580	25
Allyl Chloride	3.75	3.15	3.15	84.0	84.0	70.0-130			0.000	25
Benzene	3.75	3.72	3.71	99.2	98.9	70.0-130			0.269	25
Benzyl Chloride	3.75	4.29	4.25	114	113	70.0-152			0.937	25
Bromodichloromethane	3.75	3.58	3.59	95.5	95.7	70.0-130			0.279	25

Volatile Organic Compounds (MS) by Method TO-15

L1598893-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907360-1 03/30/23 08:34 • (LCSD) R3907360-2 03/30/23 09:12

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	3.89	3.79	104	101	70.0-130			2.60	25
Bromomethane	3.75	4.49	4.57	120	122	70.0-130			1.77	25
1,3-Butadiene	3.75	3.25	3.39	86.7	90.4	70.0-130			4.22	25
Carbon disulfide	3.75	3.51	3.54	93.6	94.4	70.0-130			0.851	25
Carbon tetrachloride	3.75	3.54	3.69	94.4	98.4	70.0-130			4.15	25
Chlorobenzene	3.75	4.07	4.13	109	110	70.0-130			1.46	25
Chloroethane	3.75	4.60	4.57	123	122	70.0-130			0.654	25
Chloroform	3.75	3.66	3.63	97.6	96.8	70.0-130			0.823	25
Chloromethane	3.75	3.61	3.69	96.3	98.4	70.0-130			2.19	25
2-Chlorotoluene	3.75	4.19	4.19	112	112	70.0-130			0.000	25
Cyclohexane	3.75	3.80	3.81	101	102	70.0-130			0.263	25
Dibromochloromethane	3.75	3.95	3.93	105	105	70.0-130			0.508	25
1,2-Dibromoethane	3.75	3.99	3.95	106	105	70.0-130			1.01	25
1,2-Dichlorobenzene	3.75	4.26	4.29	114	114	70.0-130			0.702	25
1,3-Dichlorobenzene	3.75	4.45	4.40	119	117	70.0-130			1.13	25
1,4-Dichlorobenzene	3.75	4.56	4.55	122	121	70.0-130			0.220	25
1,2-Dichloroethane	3.75	3.52	3.55	93.9	94.7	70.0-130			0.849	25
1,1-Dichloroethane	3.75	3.50	3.50	93.3	93.3	70.0-130			0.000	25
1,1-Dichloroethene	3.75	3.51	3.60	93.6	96.0	70.0-130			2.53	25
cis-1,2-Dichloroethene	3.75	3.18	3.16	84.8	84.3	70.0-130			0.631	25
trans-1,2-Dichloroethene	3.75	3.42	3.47	91.2	92.5	70.0-130			1.45	25
1,2-Dichloropropane	3.75	3.64	3.55	97.1	94.7	70.0-130			2.50	25
cis-1,3-Dichloropropene	3.75	3.61	3.62	96.3	96.5	70.0-130			0.277	25
trans-1,3-Dichloropropene	3.75	3.71	3.69	98.9	98.4	70.0-130			0.541	25
1,4-Dioxane	3.75	3.89	3.98	104	106	70.0-140			2.29	25
Ethanol	3.75	4.15	4.11	111	110	55.0-148			0.969	25
Ethylbenzene	3.75	3.85	3.80	103	101	70.0-130			1.31	25
4-Ethyltoluene	3.75	4.27	4.28	114	114	70.0-130			0.234	25
Trichlorofluoromethane	3.75	4.57	4.73	122	126	70.0-130			3.44	25
Dichlorodifluoromethane	3.75	3.89	4.01	104	107	64.0-139			3.04	25
1,1,2-Trichlorotrifluoroethane	3.75	3.88	3.90	103	104	70.0-130			0.514	25
1,2-Dichlorotetrafluoroethane	3.75	3.92	4.02	105	107	70.0-130			2.52	25
Heptane	3.75	3.58	3.60	95.5	96.0	70.0-130			0.557	25
Hexachloro-1,3-butadiene	3.75	4.16	4.08	111	109	70.0-151			1.94	25
Isopropylbenzene	3.75	4.07	4.07	109	109	70.0-130			0.000	25
Methylene Chloride	3.75	3.37	3.41	89.9	90.9	70.0-130			1.18	25
Methyl Butyl Ketone	3.75	3.68	3.56	98.1	94.9	70.0-149			3.31	25
Methyl Ethyl Ketone	3.75	3.56	3.60	94.9	96.0	70.0-130			1.12	25
4-Methyl-2-pentanone (MIBK)	3.75	3.61	3.50	96.3	93.3	70.0-139			3.09	25
Methyl Methacrylate	3.75	3.56	3.55	94.9	94.7	70.0-130			0.281	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907360-1 03/30/23 08:34 • (LCSD) R3907360-2 03/30/23 09:12

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.54	3.59	94.4	95.7	70.0-130			1.40	25
Naphthalene	3.75	4.47	4.47	119	119	70.0-159			0.000	25
2-Propanol	3.75	3.59	3.59	95.7	95.7	70.0-139			0.000	25
Propene	3.75	3.61	3.54	96.3	94.4	64.0-144			1.96	25
Styrene	3.75	4.00	3.97	107	106	70.0-130			0.753	25
1,1,2,2-Tetrachloroethane	3.75	3.91	3.89	104	104	70.0-130			0.513	25
Tetrachloroethylene	3.75	4.11	4.14	110	110	70.0-130			0.727	25
Tetrahydrofuran	3.75	3.39	3.28	90.4	87.5	70.0-137			3.30	25
Toluene	3.75	3.99	3.95	106	105	70.0-130			1.01	25
1,2,4-Trichlorobenzene	3.75	4.35	4.31	116	115	70.0-160			0.924	25
1,1,1-Trichloroethane	3.75	3.60	3.59	96.0	95.7	70.0-130			0.278	25
1,1,2-Trichloroethane	3.75	3.86	3.83	103	102	70.0-130			0.780	25
Trichloroethylene	3.75	3.70	3.72	98.7	99.2	70.0-130			0.539	25
1,2,4-Trimethylbenzene	3.75	4.31	4.27	115	114	70.0-130			0.932	25
1,3,5-Trimethylbenzene	3.75	4.37	4.30	117	115	70.0-130			1.61	25
2,2,4-Trimethylpentane	3.75	3.56	3.60	94.9	96.0	70.0-130			1.12	25
Vinyl chloride	3.75	3.61	3.69	96.3	98.4	70.0-130			2.19	25
Vinyl Bromide	3.75	4.35	4.57	116	122	70.0-130			4.93	25
Vinyl acetate	3.75	3.32	3.35	88.5	89.3	70.0-130			0.900	25
m&p-Xylene	7.50	7.80	7.72	104	103	70.0-130			1.03	25
o-Xylene	3.75	3.88	3.87	103	103	70.0-130			0.258	25
TPH (GC/MS) Low Fraction	203	206	205	101	101	70.0-130			0.487	25
(S) 1,4-Bromofluorobenzene				102	101	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1598893-01

Method Blank (MB)

(MB) R3908012-3 03/31/23 10:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	96.5			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3908012-1 03/31/23 08:48 • (LCSD) R3908012-2 03/31/23 09:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.75	4.69	127	125	70.0-130			1.27	25
(S) 1,4-Bromofluorobenzene				97.6	98.7	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

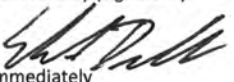
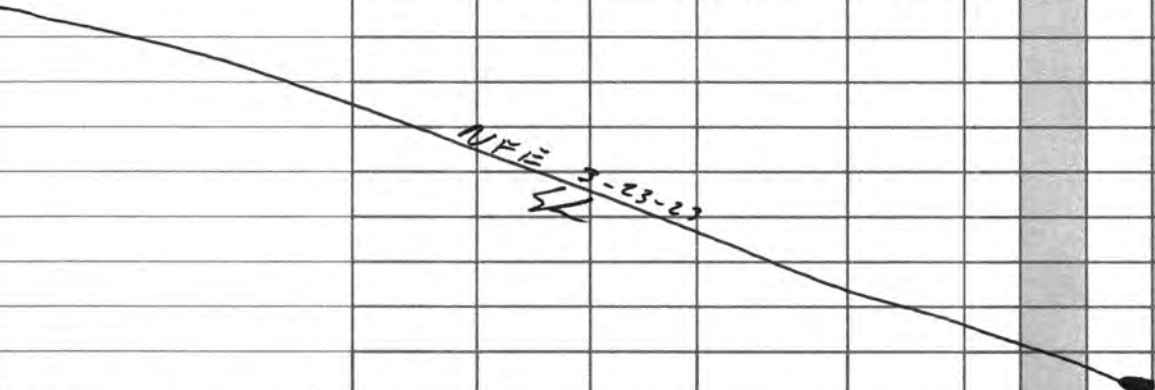
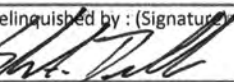
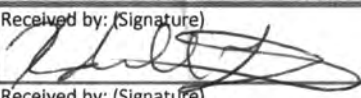
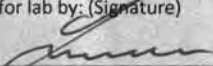
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701				Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>1</u>					
Report to: Beaux Jennings				Email To: bjennings@ensolum.com																 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf					
Project Description: Levey Well				City/State Collected: Hobbs NM				Please Circle: PT MT CT ET												SDG # L1598893 1067					
Phone: 210-219-8858				Client Project # 03B1417001				Lab Project # ENSOLUMTX-SUMMA												Acctnum: ENSOLUMMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB:					
Collected by (print): Shane Diller				Site/Facility ID # 03B1417001				P.O. # 03B1417001												Shipped Via:					
Collected by (signature):  Immediately Packed on Ice N <u>X</u> Y <u> </u>				Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) <u>X</u> Three Day				Quote # Date Results Needed		No. of Cntrs												Remarks Sample # (lab only)			
Sample ID				Comp/Grab		Matrix *		Depth		Date		Time		TO-15 Summa											
Levey Well				G		Air		3-23-23		1259		1		X											
  																									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other				Remarks:				pH _____ Temp _____ Flow _____ Other _____		Samples returned via: ___ UPS ___ FedEx ___ Courier		Tracking #		Sample Receipt Checklist COC Seal Present/Intact: ___ NP ___ N COC Signed/Accurate: ___ Y ___ N Bottles arrive intact: ___ Y ___ N Correct bottles used: ___ Y ___ N Sufficient volume sent: ___ Y ___ N If Applicable VOA Zero Headspace: ___ Y ___ N Preservation Correct/Checked: ___ Y ___ N RAD Screen <0.5 mR/hr: ___ Y ___ N											
Relinquished by: (Signature) 				Date: 3/27/23		Time: 1300		Received by: (Signature) 				Trip Blank Received: Yes/No HCL/MeOH TBR				If preservation required by Login: Date/Time									
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Temp: °C 1				Date: Time: Hold: Condition:									
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) 				Date: Time: Hold: Condition:				3/28/23 0920 NCF / OK									



ANALYTICAL REPORT

April 05, 2023

Ensolum, LLC

Sample Delivery Group: L1600405
Samples Received: 03/31/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

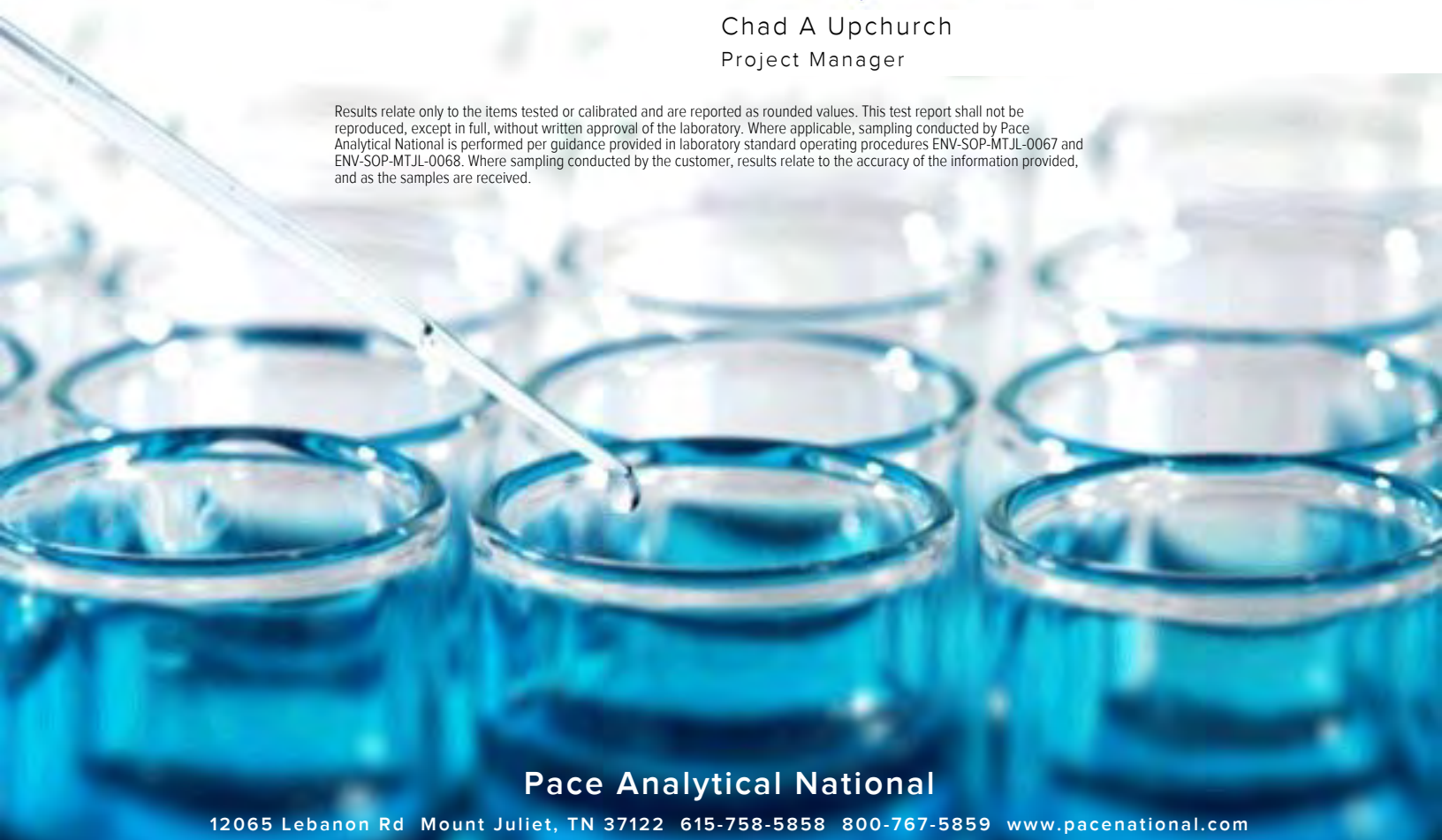


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1600405-01	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 L1600405-01 Air

Collected by
Shane Diller

Collected date/time
03/29/23 12:23

Received date/time
03/31/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2034807	100	04/04/23 02:11	04/04/23 02:11	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2035605	1000	04/05/23 04:05	04/05/23 04:05	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

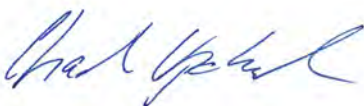
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 04/05/2023 07:52				
Project Name: Levey Well			Laboratory Job Number: L1600405-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2034807 and WG2035605				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?		X			1
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 04/05/2023 07:52					
Project Name: Levey Well		Laboratory Job Number: L1600405-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2034807 and WG2035605					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 04/05/2023 07:52	
Project Name: Levey Well		Laboratory Job Number: L1600405-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2034807 and WG2035605	
ER #¹	Description		
1	TO-15 WG2034807 L1600405-01: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/29/23 12:23

L1600405

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	WG2034807
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2034807
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2034807
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2034807
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2034807
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2034807
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2034807
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2034807
Carbon disulfide	75-15-0	76.10	20.0	62.2	209	651		100	WG2034807
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2034807
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2034807
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2034807
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2034807
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2034807
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2034807
Cyclohexane	110-82-7	84.20	200	689	11500	39600		1000	WG2035605
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2034807
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2034807
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2034807
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2034807
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2034807
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2034807
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2034807
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2034807
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2034807
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2034807
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2034807
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2034807
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2034807
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2034807
Ethanol	64-17-5	46.10	125	236	1460	2750		100	WG2034807
Ethylbenzene	100-41-4	106	20.0	86.7	2060	8930		100	WG2034807
4-Ethyltoluene	622-96-8	120	20.0	98.2	330	1620		100	WG2034807
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2034807
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2034807
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2034807
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2034807
Heptane	142-82-5	100	20.0	81.8	6240	25500		100	WG2034807
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2034807
n-Hexane	110-54-3	86.20	630	2220	72200	255000		1000	WG2035605
Isopropylbenzene	98-82-8	120.20	20.0	98.3	290	1430		100	WG2034807
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2034807
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2034807
2-Butanone (MEK)	78-93-3	72.10	125	369	128	377		100	WG2034807
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2034807
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2034807
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2034807
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2034807
2-Propanol	67-63-0	60.10	125	307	19700	48400	E	100	WG2034807
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2034807
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2034807
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2034807
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2034807
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2034807
Toluene	108-88-3	92.10	50.0	188	959	3610		100	WG2034807
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2034807

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/29/23 12:23

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	WG2034807
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2034807
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2034807
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	105	515		100	WG2034807
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	65.6	322		100	WG2034807
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2034807
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2034807
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2034807
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2034807
m&p-Xylene	1330-20-7	106	40.0	173	1640	7110		100	WG2034807
o-Xylene	95-47-6	106	20.0	86.7	747	3240		100	WG2034807
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	238000	983000		100	WG2034807
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		103				WG2034807
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		87.4				WG2035605

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1600405-01

Method Blank (MB)

(MB) R3909094-3 04/03/23 10:32

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3909094-3 04/03/23 10:32

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	97.0			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3909094-1 04/03/23 09:04 • (LCSD) R3909094-2 04/03/23 09:49

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	4.61	4.51	123	120	70.0-130			2.19	25
Allyl Chloride	3.75	4.81	4.14	128	110	70.0-130			15.0	25
Benzene	3.75	4.04	4.02	108	107	70.0-130			0.496	25
Benzyl Chloride	3.75	3.71	3.77	98.9	101	70.0-152			1.60	25
Bromodichloromethane	3.75	4.00	4.03	107	107	70.0-130			0.747	25
Bromoform	3.75	3.89	3.86	104	103	70.0-130			0.774	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3909094-1 04/03/23 09:04 • (LCSD) R3909094-2 04/03/23 09:49

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	3.70	3.55	98.7	94.7	70.0-130			4.14	25
1,3-Butadiene	3.75	4.05	3.97	108	106	70.0-130			2.00	25
Carbon disulfide	3.75	4.39	4.16	117	111	70.0-130			5.38	25
Carbon tetrachloride	3.75	4.30	4.19	115	112	70.0-130			2.59	25
Chlorobenzene	3.75	4.17	4.23	111	113	70.0-130			1.43	25
Chloroethane	3.75	3.72	4.04	99.2	108	70.0-130			8.25	25
Chloroform	3.75	4.23	4.05	113	108	70.0-130			4.35	25
Chloromethane	3.75	4.57	4.43	122	118	70.0-130			3.11	25
2-Chlorotoluene	3.75	3.94	3.98	105	106	70.0-130			1.01	25
Dibromochloromethane	3.75	4.01	4.12	107	110	70.0-130			2.71	25
1,2-Dibromoethane	3.75	4.09	4.14	109	110	70.0-130			1.22	25
1,2-Dichlorobenzene	3.75	3.65	3.72	97.3	99.2	70.0-130			1.90	25
1,3-Dichlorobenzene	3.75	3.87	3.75	103	100	70.0-130			3.15	25
1,4-Dichlorobenzene	3.75	3.73	3.82	99.5	102	70.0-130			2.38	25
1,2-Dichloroethane	3.75	4.16	4.10	111	109	70.0-130			1.45	25
1,1-Dichloroethane	3.75	4.28	4.36	114	116	70.0-130			1.85	25
1,1-Dichloroethene	3.75	4.61	4.46	123	119	70.0-130			3.31	25
cis-1,2-Dichloroethene	3.75	4.73	4.27	126	114	70.0-130			10.2	25
trans-1,2-Dichloroethene	3.75	4.61	4.46	123	119	70.0-130			3.31	25
1,2-Dichloropropane	3.75	4.12	3.97	110	106	70.0-130			3.71	25
cis-1,3-Dichloropropene	3.75	4.17	3.98	111	106	70.0-130			4.66	25
trans-1,3-Dichloropropene	3.75	4.06	4.04	108	108	70.0-130			0.494	25
1,4-Dioxane	3.75	3.91	4.00	104	107	70.0-140			2.28	25
Ethanol	3.75	3.96	3.85	106	103	55.0-148			2.82	25
Ethylbenzene	3.75	4.12	4.14	110	110	70.0-130			0.484	25
4-Ethyltoluene	3.75	3.96	4.10	106	109	70.0-130			3.47	25
Trichlorofluoromethane	3.75	4.29	4.20	114	112	70.0-130			2.12	25
Dichlorodifluoromethane	3.75	4.67	4.32	125	115	64.0-139			7.79	25
1,1,2-Trichlorotrifluoroethane	3.75	4.28	4.17	114	111	70.0-130			2.60	25
1,2-Dichlorotetrafluoroethane	3.75	4.63	4.74	123	126	70.0-130			2.35	25
Heptane	3.75	4.30	4.26	115	114	70.0-130			0.935	25
Hexachloro-1,3-butadiene	3.75	3.68	3.97	98.1	106	70.0-151			7.58	25
Isopropylbenzene	3.75	4.18	4.20	111	112	70.0-130			0.477	25
Methylene Chloride	3.75	4.38	4.38	117	117	70.0-130			0.000	25
Methyl Butyl Ketone	3.75	3.86	4.06	103	108	70.0-149			5.05	25
Methyl Ethyl Ketone	3.75	4.19	3.70	112	98.7	70.0-130			12.4	25
4-Methyl-2-pentanone (MIBK)	3.75	3.89	3.89	104	104	70.0-139			0.000	25
Methyl Methacrylate	3.75	4.02	4.24	107	113	70.0-130			5.33	25
MTBE	3.75	4.10	3.97	109	106	70.0-130			3.22	25
Naphthalene	3.75	3.69	3.75	98.4	100	70.0-159			1.61	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3909094-1 04/03/23 09:04 • (LCSD) R3909094-2 04/03/23 09:49

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 %
2-Propanol	3.75	4.15	4.10	111	109	70.0-139			1.21	25
Propene	3.75	4.46	4.70	119	125	64.0-144			5.24	25
Styrene	3.75	4.16	4.39	111	117	70.0-130			5.38	25
1,1,2,2-Tetrachloroethane	3.75	3.97	3.85	106	103	70.0-130			3.07	25
Tetrachloroethylene	3.75	3.83	3.83	102	102	70.0-130			0.000	25
Tetrahydrofuran	3.75	4.17	4.33	111	115	70.0-137			3.76	25
Toluene	3.75	3.94	4.04	105	108	70.0-130			2.51	25
1,2,4-Trichlorobenzene	3.75	3.64	3.77	97.1	101	70.0-160			3.51	25
1,1,1-Trichloroethane	3.75	4.29	4.31	114	115	70.0-130			0.465	25
1,1,2-Trichloroethane	3.75	3.89	3.96	104	106	70.0-130			1.78	25
Trichloroethylene	3.75	4.13	4.25	110	113	70.0-130			2.86	25
1,2,4-Trimethylbenzene	3.75	3.80	3.93	101	105	70.0-130			3.36	25
1,3,5-Trimethylbenzene	3.75	3.90	3.96	104	106	70.0-130			1.53	25
2,2,4-Trimethylpentane	3.75	4.51	4.49	120	120	70.0-130			0.444	25
Vinyl chloride	3.75	4.13	4.20	110	112	70.0-130			1.68	25
Vinyl Bromide	3.75	4.16	3.96	111	106	70.0-130			4.93	25
Vinyl acetate	3.75	4.57	4.26	122	114	70.0-130			7.02	25
m&p-Xylene	7.50	8.31	8.38	111	112	70.0-130			0.839	25
o-Xylene	3.75	4.14	4.07	110	109	70.0-130			1.71	25
TPH (GC/MS) Low Fraction	203	197	189	97.0	93.1	70.0-130			4.15	25
(S) 1,4-Bromofluorobenzene				95.9	99.4	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3909317-3 04/04/23 22:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	84.3			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3909317-1 04/04/23 21:19 • (LCSD) R3909317-2 04/04/23 21:49

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	3.90	3.96	104	106	70.0-130			1.53	25
n-Hexane	3.75	4.01	4.09	107	109	70.0-130			1.98	25
(S) 1,4-Bromofluorobenzene				89.6	91.8	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

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
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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.

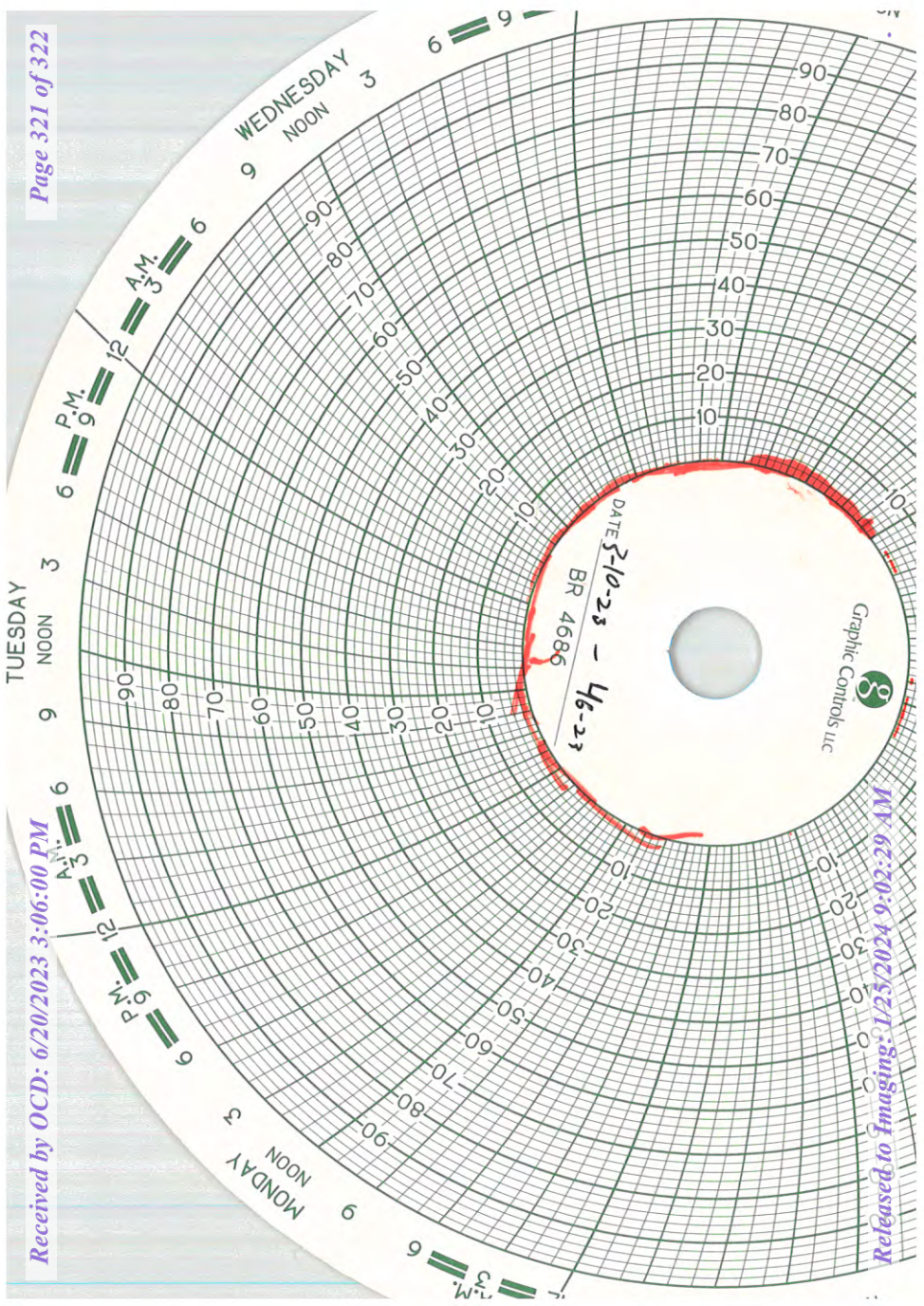


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APPENDIX D

Levey Well Pressure Reading Documentation



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 230857

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID:	157984
	Action Number:	230857
	Action Type:	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the March 2023 Gas Mitigation Monthly Report: Content Satisfactory 1. Ensure that the circular chart is properly recording for Pressure Readings 2. Continue removal of gas accumulations bi-weekly as proposed. 3. Continue to conduct sampling for monitoring wells: MW-1, MW-2 and Levey well for groundwater and air. 4. Submit monthly reports as scheduled and annually as scheduled.	1/25/2024