



GAS MITIGATION MONTHLY REPORT – October 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**

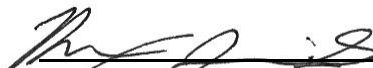
**New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981
Incident ID No. nAPP2227033082**

February 15, 2024

Prepared for:

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

Prepared by:


Beaux Jennings
Senior Project Manager

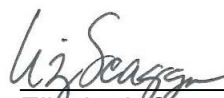

Elizabeth Scaggs, PG
Principal



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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 - October 2023 summarizes activities subsequent to the *Gas Mitigation Monthly Report - September 2023*, dated February 5, 2024. All wells are located within operations that are part of the South Hobbs Grayburg/San Andres Unit (SHU) Field in the southwestern area of the City of Hobbs, Lea County, New Mexico. Collectively, the Levey water well (Levey Well) and the two monitoring wells (MW-1 and MW-2) are referred to as the "Site".

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

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

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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 October 31, 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 October 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, Nitrite as N, and TDS. Benzene concentrations ranged from 0.0123 milligrams per liter (mg/L) to 0.0316 mg/L in monitoring well MW-2. Nitrite as N exceedances ranging from 1.17 mg/L to 1.52 mg/L observed in monitoring well MW-2. In addition, TDS concentrations ranged from 1,160 mg/L to 1,450 mg/L in the Levey Well. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). The groundwater analytical summary tables are included in **Appendix B**.

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

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

OXY installed pressure reading charts at the Levey Well to measure the potential for any returning pressure at the well. These charts measure pressure 24 hours a day and show that no pressure has returned to the Levey Well. Monitoring wells MW-1 and MW-2 were physically monitored for the presence of gas and pressure on several dates from 7/1/2020 to 10/31/2023, with no pressure observed in either monitoring well. The pressure reading chart available for October 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 October 1 - 31, 2023 was approximately 643,026 gallons.

1.3 Gas Recovery – Levey Well

OXY conducted two vacuum recovery event during the month of October 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 November 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 October 9, 2023 and October 23, 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 both days of the vacuum recovery event, the vacuum was applied to the Levey Well for a duration of approximately two hours. Approximately one hour and two hours into the event, an air sample was taken. The vacuum was then turned off and an additional air sample from the Levey Well was taken one hour subsequent to the vacuum recovery event. Water was not recovered during the vacuum recovery event.

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 October 2023 sampling event 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:

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Levey Well

As of July 1, 2021, the Levey water well has run full time. 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.

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 in 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 November 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, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, toluene, 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, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, toluene, m&p-xylene, o-xylene, and/or TPH concentrations significantly decrease throughout the duration of the event.

Approximately one hour after the termination of the vacuum recovery event, a final air sample is collected. Elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, toluene, m&p-xylene, o-xylene, and/or 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 cyclohexane, ethylbenzene, heptane, n-hexane, 2-propanol, 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 October 2023 groundwater samples collected from the Levey Well and monitoring wells MW-1 and MW-2 to the New Mexico WQCC GQSs. The results of the groundwater sample analyses are summarized in **Table 1** through **Table 3** of **Appendix B**. All analytical results were below the WQCC GQSs, with the exception of the analytes, as discussed below.

Levey Well

TDS concentrations of 1,160 mg/L to 1,450 mg/L were observed during the October 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, the January 25, 2023, which had a benzene analytical result of 0.00589 mg/L, the July 27, 2023, which had a benzene analytical result of 0.00659 mg/L, and the August 14, 2023, which had a benzene analytical result of 0.00575 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 0.0123 mg/L to 0.0316 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

In addition, several Nitrite as N exceedances ranging from 1.17 mg/L to 1.52 mg/L were observed in monitoring well MW-2 which is above the WQCC GQS of 1.0 mg/L.

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

4.0 RECOMMENDATIONS

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

OXY requests from the NMOCD moving forward in 2024 to:

- Plug and abandon the Levey Well and monitoring well MW-1;
- Remove impacted groundwater utilizing monitoring well MW-2 full time. The recovered groundwater will be transferred via flowline to a nearby tank for proper disposal. Groundwater removal will continue until acceptable levels achieving compliance expectations are complete;
- Implement monthly sampling for water and air on monitoring well MW-2 moving forward in 2024;

- **Utilizing monitoring well MW-2, 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 utilizing monitoring well MW-2, as described in Section 2.1; and**
- **Continue to monitor 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.**

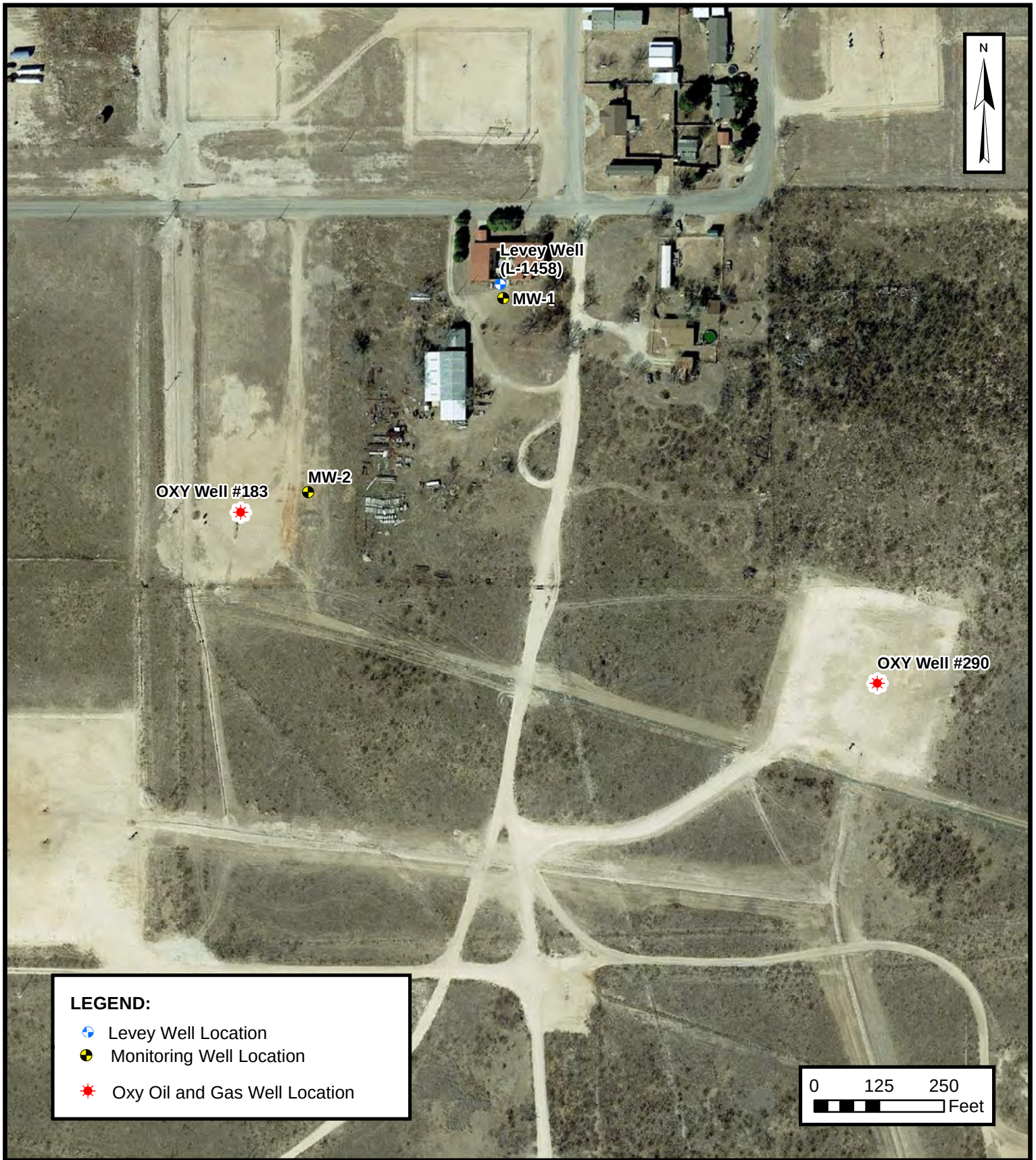
5.0 REFERENCES

- 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.
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- Gorody, A.W., 2012. Factors affecting the variability of stray gas concentration and composition ingroundwater. Environ. Geosci. 19, 17–31. <https://doi.org/10.1306/eg.12081111013>.
- Molofsky, L.J., Richardson, S.D., Gorody, A.W., Baldassare, F., Connor, J.A., McHugh, T.E., Smith, A.P., Wylie, A.S., Wagner, T., 2018. Purging and other sampling variables affecting dissolved methaneconcentration in water supply wells. Sci. Total Environ. 618, 998-1007. <https://doi.org/10.1016/j.scitotenv.2017.09.077>.



APPENDIX A

Figures and Graphs



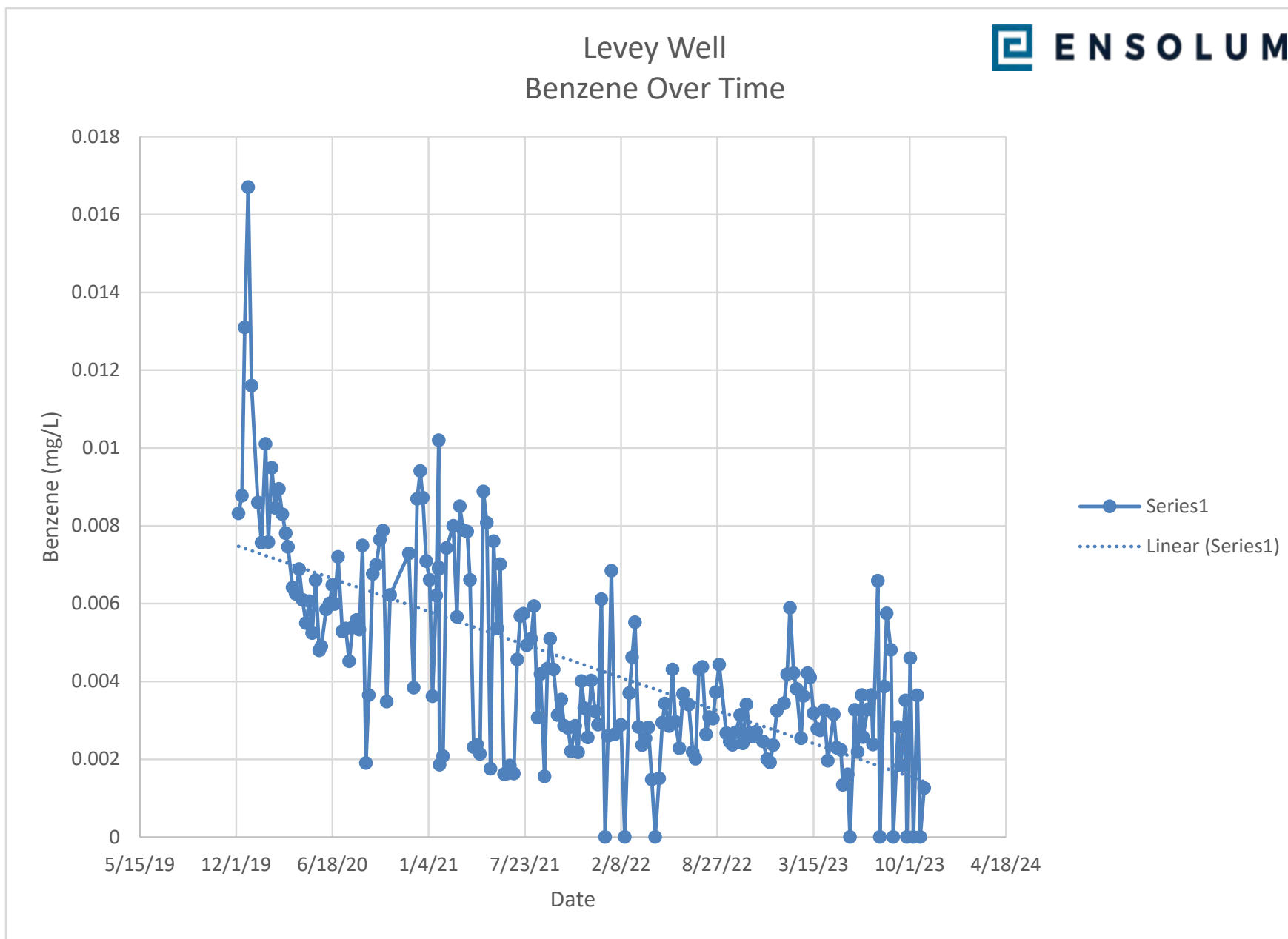
SITE MAP

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

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																														
Sample Designation	Date	VOCs (mg/L)																												
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	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	<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	<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	<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	<0.00100	NA	<0.00100	<0.00100	0.00142	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0140	<0.0100	0.00808	<0.00100	<0.00100	0.0408	0.0132
	3/4/2021	0.00566	0.0446	0.0222	0.0133	0.0869	0.100	<0.0500	<0.00100	0.00187	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00110	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00694	<0.00100	<0.00100	0.0390	0.0119
	3/10/2021	0.00850	0.0668	0.0314	0.0194	0.126	0.145	<0.0500	<0.00100	0.00270	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00176	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0156	<0.0100	0.00898	<0.00100	<0.00100	0.0466	0.0150
	3/17/2021	0.00789	0.0563	0.0273	0.0168	0.103	0.120	0.0253 J	0.000840 J	0.00239	<0.000195	<0.00100	<0.00100	<0.00100	NA	<0.000214	<0.000183	0.00139	<0.000285	<0.000500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00830	<0.000228	<0.000162	0.0427	0.0135
	3/25/2021	0.00785	0.0585	0.0276	0.0175	0.109	0.127	0.0206 J	0.00129	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00143	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0141	<0.0100	0.00779	<0.00100	<0.00100	0.0416	<0.00100	
	3/31/2021	0.00661	0.0459	0.0243	0.0143	0.0857	0.100	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	0.00302	<0.000183	0.00144	<0.000244	<0.000500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00840	<0.000228	<0.000162	0.0422	0.01370	
	4/8/2021	0.00231	0.00502	0.0106	0.00358	0.0227	0.0263	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00103	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00689	<0.0100	0.0148	<0.00100	<0.00100	0.0951	0.0639	
	4/15/2021	0.00238	0.00491	0.0109	0.00364	0.0266	0.0302	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00109	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00733	<0.0100	0.0162	<0.00100	<0.00100	0.111	<0.00100	
	4/21/2021	0.00214	0.00431	0.00957	0.00340	0.0198	0.0232	<0.00270	<0.000286	0.00181	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00103	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00658	<0.00200	0.0149	<0.000228	<0.000623	0.109	0.0631	
	4/28/2021	0.00888	0.0652	0.0325	0.0201	0.121	0.141	0.0198 J	<0.000286	0.00259	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0161	<0.00200	0.00855	<0.000228	<0.000623	0.0431	0.0138	
	5/5/2021	0.00808	0.0527	0.0257	0.0160	0.0935	0.110	<0.00270	0.00135	0.00232	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0121	<0.00200	0.00760	<0.000228	<0.000623	0.0414	<0.000279	
	5/13/2021	0.00176	0.00332	0.00899	0.00297	0.0187	0.0217	<0.00270	0.00109	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000802 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00592	<0.00200	0.0139	<0.000228	<0.000623	0.0828	0.0239	
	5/19/2021	0.00760	0.0603	0.0296	0.0182	0.112	0.130	0.0188 J	<0.000286	0.00254	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00157	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0146	<0.00200	0.00825	<0.000228	<0.000623	0.0403	0.0128	
	5/27/2021	0.00536	0.0360	0.0206	0.0117	0.0657	0.0774	0.0139 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00139	<0.000285	<0.000396	<0.000174										

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 Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.00288	0.0228	0.0122	0.00697	0.0458	0.0528	0.0112 J	<0.000286	0.00125	<0.000195	0.00194	<0.000259	<0.000318	<0.000214	<0.000183	0.000813 J	<0.000285	<0.000396	<0.000174	0.000211 J	<0.000481	0.00591	<0.00200	0.00329	<0.000228	<0.000623	0.0228	0.00693
	2/16/2022	0.000814 J	0.00676	0.00397	0.00212	0.0142	0.0163	<0.00270	<0.000286	<0.000199	<0.000195	0.00175	<0.000259	<0.000318	<0.000214	<0.000183	0.000336 J	<0.000285	0.000534 J	<0.000174	<0.000199	<0.000481	0.00202	<0.00200	0.00130	<0.000228	<0.000623	0.00924	0.00283
	2/25/2022	0.00370	0.0196	0.0133	0.00750	0.0489	0.0564	0.00976 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000696 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00626	<0.00200	0.00308	<0.000228	<0.000623	0.0131	0.00450
	3/3/2022	0.00462	0.0327	0.0162	0.00973	0.0634	0.0731	0.0180 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00731	<0.00200	0.00342	<0.000228	<0.000623	0.0140	0.00470
	3/9/2022	0.00552	0.0388	0.0204	0.0124	0.0768	0.0892	<0.00270	0.00169	0.00180	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00966	<0.00200	0.00484	<0.000228	<0.000623	0.0226	0.00720
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.00283	0.0227	0.0106	0.00619	0.0409	0.0471	<0.00270	<0.000286	0.000916 J	<0.000195	0.00174	<0.000259	<0.000318	<0.000214	<0.000183	0.000550 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00477	<0.00200	0.00238	<0.000228	<0.000623	0.0114	0.00388
	3/24/2022	0.00236	0.0178	0.00867	0.00491	0.0341	0.0390	<0.00270	0.000553 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000509 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00409	<0.00200	0.00208	<0.000228	<0.000623	0.0101	0.00323
	3/31/2022	0.00254	0.0197	0.00985	0.00574	0.0371	0.0428	0.00431 J	<0.000286	0.000932 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000605 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00482	<0.00200	0.00233	<0.000228	<0.000623	0.0121	0.00390
	4/6/2022	0.00282	0.0215	0.0106	0.00647	0.0405	0.0470	0.00381 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000581 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00491	<0.00200	0.00250	<0.000228	<0.000623	0.0125	0.00386
	4/13/2022	0.00148	0.0113	0.00559	0.00334	0.0211	0.0244	<0.00270	<0.000286	<0.000199	<0.000195	0.000531 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000351 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00269	<0.00200	0.00153	<0.000228	<0.000623	0.00856	0.00264
	4/20/2022	0.000594 J	0.00776	0.00375	0.00212	0.0158	0.0179	<0.00270	<0.000286	0.000408 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000239 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00196	<0.00200	0.000651 J	<0.000228	<0.000623	0.00643	0.00156
	4/28/2022	0.00151	0.0112	0.00540	0.00323	0.0207	0.0239	<0.00270	<0.000286	0.000523 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00238	<0.00200	0.00133	<0.000228	<0.000623	0.00733	0.00242
	5/5/2022	0.00294	0.0275	0.0130	0.00761	0.0515	0.0591	<0.00270	<0.000286	0.00117	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000709 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00600	<0.00200	0.00265	<0.000228	<0.000623	0.0145	0.00440
	5/10/2022	0.00343	0.0282	0.0132	0.00821	0.0517	0.0599	<0.00270	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000652 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00630	<0.00200	0.00301	<0.000228	<0.000623	0.0148	0.00463
	5/19/2022	0.00285	0.0228	0.0107	0.00633	0.0424	0.0487	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000527 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.00232	<0.000228	<0.000623	0.0102	0.00345
	5/26/2022	0.00431	0.0360	0.0171	0.0109	0.0679	0.0788	<0.00270	<0.000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000918 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00840	<0.00200	0.00391	<0.000228	<0.000623	0.0182	0.00580
	6/1/2022	0.00296	0.0233	0.0107	0.00653	0.0423	0.0488	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000538 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00499	<0.00200	0.00212	<0.000228	<0.000623	0.00987	0.00337
	6/9/2022	0.00228	0.0182	0.00874	0.00514	0.0352	0.0403	<0.00270	0.000536 J	0.000776 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000539 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00436	<0.00200	0.00197	<0.000228	<0.000623	0.00847	0.00271
	6/17/2022	0.00368	0.0282	0.0141	0.00881	0.0544	0.0632	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000744 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.00048							

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	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	1/4/2023	Electrical Failure, Unable to Sample.																											
	1/13/2023	0.00344	0.0290	0.0135	0.00827	0.0558	0.0641	<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	0.00668	<0.00135	0.00303	<0.000511	<0.000655	0.0120	0.00408
	1/19/2023	0.00418	0.0357	0.0146	0.00899	0.0602	0.0692	<0.00828	<0.000644	0.00135	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00684	<0.00135	0.00313	<0.000511	<0.000655	0.0114	0.00396
	1/25/2023	0.00589	0.0498	0.0228	0.0139	0.0938	0.1080	<0.00828	0.00112	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.00108	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0112	<0.00135	0.00495	<0.000511	<0.000655	0.0198	0.00669
	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
	4/6/2023	0.00326	0.0242	0.0113	0.00757	0.0451	0.0527	<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	0.00554	<0.00135	0.00237	<0.000511	<0.000655	0.0110	0.00328
	4/14/2023	0.00196	0.0142	0.00641	0.00432	0.0251	0.0294	<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	0.00316	<0.00135	0.00142	<0.000511	<0.000655	0.00638	0.00204
	4/26/2023	0.00315	0.0256	0.0119	0.00779	0.0508	0.0586	<0.00828	<0.000644	0.0011	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00595	<0.00135	0.00251	<0.000511	<0.000655	0.01160	0.00346
	5/2/2023	0.00230	0.0168	0.00748	0.00491	0.0302	0.0351	<0.00828	<0.000644	0.000716 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	0.00367	<0.00135	0.00169	<0.000511	<0.000655	0.00721	0.00229
	5/11/2023	0.00224	0.0163	0.00757	0.00487	0.0277	0.0326	<0.00828	<0.000644	0.000743 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	0.00364	<0.00135	0.00166	<0.000511	<0.000655	0.00700	0.00230
	5/15/2023	0.00134	0.00949	0.00492	0.00275	0.0190	0.0218	<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	0.00285	<0.00135	0.00106	<0.000511	<0.000655	0.00436	0.00129
	5/25/2023	0.00161	0.0113	0.00570	0.00323	0.0211	0.0243	<0.00828	<0.000644	0.000561 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	0.00267	<0.00135	0.00127	<0.000511	<0.000655	0.00441	0.00141
	5/30/2023	<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	0.000889 J	<0.000456
	6/9/2023	0.00327	0.0264	0.0129	0.00821	0.0529	0.0611	<0.00828	0.000774 J	0.00137	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00611	<0.00135	0.00323	<0.000511	<0.000655	0.01400	0.00411
	6/15/2023	0.00219	0.0154	0.00761	0.00487	0.0292	0.0341	<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	0.00398	<0.00135	0.00175	<0.000511	<0.000655	0.00744	0.00229
	6/23/2023	0.00365	0.0251	0.0139	0.00865	0.0564	0.0651	<0.00828	0.000789 J	0.00128	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00633	<0.00135	0.00291	<0.000511	<0.000655	0.0141	0.00414
	6/26/2023	0.00257	0.0177	0.00872	0.00591	0.0356	0.0415	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.00047													

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylen	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-1	5/26/2020	0.000500 J	<0.000500	<0.000146	<0.000192	0.00215 J	0.00215	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00101	0.0005 J
	6/30/2020	0.00275	<0.00100	<0.00100	<0.00100	0.0136	0.0136	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	0.00665	0.00271
	8/20/2020	0.00222	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	0.00388	0.00175
	10/23/2020	0.00353	<0.000367	<0.000657	<0.000642	0.00246 J	0.00246																						
	11/24/2020	0.00241	<0.000500	0.000310 J	<0.000192	0.00133 J	0.001330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00151	0.000820 J
	12/18/2020	0.00257	<0.000500	0.000580 J	<0.000192	0.00145 J	0.00145	<0.00270	<0.000286	0.000350 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000270 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000320 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00234	0.00111
	12/23/2020	0.00159	<0.000500	0.000380 J	<0.000192	0.000970 J	0.000970 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	0.000230 J	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.000720 J	0.000360 J
	12/30/2020	0.00194	<0.000500	0.000470 J	<0.000192	0.00148 J	0.00148	<0.00270	<0.000286	0.000230 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000240 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00154	0.000750 J
	1/6/2021	0.00209	<0.000500	0.000330 J	<0.000192	0.00122 J	0.00122	<0.00270	<0.000286	0.000310 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000260 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000190 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00219	0.00103
	1/12/2021	0.00211	0.000690 J	0.000540 J	<0.000192	0.00163 J	0.00163	<0.00270	<0.000286	0.000220 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000670 J
	1/20/2021	0.00222	<0.000500	0.000430 J	<0.000192	0.00137 J	0.00137	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00140	0.000720 J
	1/27/2021	0.00157	<0.000500	0.000400 J	<0.000192	0.00123 J	0.00123	0.00398 J	<0.000286	0.000270 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00153	0.000830 J
	2/3/2021	0.00203	<0.000500	0.000430 J	<0.000192	0.00100 J	0.00100 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000180 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00105	0.000510 J
	2/10/2021	0.00196	<0.000500	0.000560 J	<0.000192	0.00143 J	0.00143	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000300 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000740 J
	2/24/2021	0.00158	<0.000500	0.000460 J	<0.000192	0.00110 J	0.0011	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000930 J	0.000490 J
	3/4/2021	0.00139	<0.000500	0.00102	<0.000192	0.00211 J	0.00211	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000440 J	<0.00200	0.000240 J	<0.000228	<0.000162	0.00131	0.000680 J
	3/10/2021	0.00143	<0.000500	0.000490 J	<0.000192	0.000900 J	0.000900 J	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000780 J	0.000370 J
	3/17/2021	0.00159	0.00112	0.000790 J	<0.000192	0.00183 J	0.00183	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000380 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00145	0.000570 J
	3/25/2021	0.00159	<0.00100	0.000533 J	<0.00100	0.00123 J	0.00123 J	<0.0500	<0.00100	0.000214 J	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.000253 J	<0.0100	<0.00100	<0.00100	<0.00100	0.00152	<0.00100
	3/31/2021	0.00161	<0.000500	0.000333 J	<0.000192	0.000714 J	0.000714 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	<0.00100	<0.00183	<0.000233	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.000980 J	0.000392 J
	4/8/2021	0.00128	<0.000500	0.000463 J	<0.000192	0.000985 J	0.000985 J	<0.00270	<0.000286	<0.000199	<0.000195	<0																	

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TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	5/26/2020	0.00901	0.0299	0.0069	0.0186	0.0545	0.0731	<0.00270	<0.000286	0.000270 J	<0.000195	<0.00500	<0.000259	NA	<0.000214	<0.000183	0.000660	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00223	<0.00200	0.000570 J	<0.000228	<0.000162	0.0125	0.00704
	6/30/2020	0.0124	0.0193	0.0187	0.0196	0.0903	0.110	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	0.00667	<0.0100	0.00243	<0.00100	<0.00100	0.0231	0.00815
	8/20/2020	0.0148	0.0172	0.0182	0.0160	0.0802	0.0962	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00640	<0.0100	0.00170	<0.00100	<0.00100	0.0145	0.00421
	10/23/2020	0.0250	0.00730	0.0248	0.0186	0.110	0.129	NA																					
	11/24/2020	0.0358	0.0613	0.0503	0.0465	0.221	0.2675	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00143	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0189	0.00242 J	<0.000179	<0.000228	<0.000162	0.0590	0.0149
	12/18/2020	0.0263	0.0260	0.0369	0.0240	0.165	0.189	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00113	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0148	<0.00200	0.00486	<0.000228	<0.000162	0.0467	0.0121
	12/23/2020	0.0299	0.0358	0.0381	0.0266	0.156	0.183	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00101	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0135	<0.00200	0.00408	<0.000228	<0.000162	0.0406	0.0102
	12/30/2020	0.0200	0.0242	0.0185	0.0146	0.0592	0.0738	<0.00270	0.000550 J	0.000680 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000540 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00603	<0.00200	0.00170	<0.000228	<0.000162	0.0116	0.00533
	1/6/2021	0.0200	0.0169	0.0231	0.0169	0.118	0.135	<0.00270	0.000390 J	0.00117	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00105	0.000500 J	<0.000396	<0.000174	<0.000199	<0.000481	0.00815	<0.00200	0.00267	0.000800 J	<0.000162	0.0339	0.0103
	1/12/2021	0.0193	0.0185	0.0198	0.0144	0.0922	0.107	<0.00270	0.000690 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00756	<0.00200	0.00242	<0.000228	<0.000162	0.0259	0.00698
	1/20/2021	0.0229	0.0169	0.0190	0.0136	0.0829	0.0965	0.00394 J	0.000400 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000470 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00177	<0.000228	<0.000162	0.0202	0.00517
	1/27/2021	0.0298	0.0276	0.0282	0.0269	0.155	0.182	0.00504 J	0.00103	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0117	<0.00200	0.00343	<0.000228	<0.000162	0.0500	0.0129
	2/3/2021	0.0286	0.0392	0.0258	0.0236	0.111	0.135	<0.00270	<0.000286	0.000850 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000590 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00817	<0.00200	0.00240	<0.000228	<0.000162	0.0267	0.00674
	2/10/2021	0.0307	0.0201	0.0329	0.0210	0.159	0.180	<0.00575	0.000870 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000940 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0120	<0.00200	0.00331	<0.000228	<0.000162	0.0407	0.00994
	2/24/2021	0.0218	0.0122	0.0164	0.0111	0.0749	0.086	<0.00575	0.000370 J	0.000640 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000480 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0060	<0.00200	0.00175	<0.000228	<0.000162	0.0191	0.00496
	3/4/2021	0.0264	0.0232	0.0320	0.0212	0.142	0.163	<0.00575	0.000430 J	0.00131	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000930 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0115	<0.00200	0.00390	<0.000228	<0.000162	0.0403	0.0100
	3/10/2021	0.0269	0.0234	0.0271	0.0206	0.117	0.138	<0.00575	<0.000286	0.000970 J	<0.000195	<0.00100	<0.000259	NA	<0.000214	<0.000183	0.000720 J	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.00931	<0.00200	0.00281	<0.000228	<0.000162	0.0287	0.00720
	3/17/2021	0.0238	0.0237	0.0257	0.0190	0.113	0.132	<0.0500	<0.00100	0.00113	<0.00100	<0.00100	<0.000259	NA	<0.00100	<0.00100	<0.00100	<0.00500	<0.00500	<0.00500	<0.00100	<0.00500	0.00923	<0.0100	0.00305	<0.00100	<0.00100	0.0315	0.00821
	3/25/2021	0.0209	0.0281	0.0202	0.0165	0.0892	0.106	<0.0500	<0.00100	0.000799 J	0.00134	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.000610 J	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00725	<0.0100	0.00229	<0.00100	<0.00100	0.0224	<0.00100
	3/31/2021	0.0298	0.0107	0.0177	0.0203	0.124	0.144	<0.00270	<0.000286	0.00137	<0.000195	<0.000500	<0.00100	<0.0100	0.00151	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0133	<0.00200	0.00295	<0.000228	0.000631 J	0.0426	0.0107
	4/8/2021	0.0226	0.0217	0.0210	0.0175	0.0990	0.117	<0.00270	0.000640 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000579 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00799	<0.00200	0.00235	<0.000228	<0.000162	0.0237	<0.000279
	4/15/2021	0.0260	0.0132	0.0236	0.0176	0.129	0.147	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000925 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0102	<0.00200	0.00320	<0.000228	<0.000162	0.0381	0.00968
	4/21/2021	0.0220	0.00991	0.0180	0.0162	0.118	0.134	<0.00270	0.000776 J	0.00121	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000901 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0106	<0.00200	0.00267	<0.000228	<0.000623	0.0364	<0.0

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	1/6/2022	0.0360	0.00656	0.0309	0.0229	0.253	0.274	<0.00270	0.00192	0.00273	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00265	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00488	<0.000228	<0.000623	0.108	0.0273
	1/12/2022	0.0205	0.00174	0.00106	0.0200	0.0949	0.115	<0.00270	<0.000286	0.00132	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00184	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.000546 J	<0.000228	<0.000623	0.0619	0.00491
	1/19/2022	0.0262	0.00733	0.0305	0.0147	0.229	0.249	<0.00270	0.00104	0.00147	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0142	<0.00200	0.00403	<0.000228	<0.000623	0.0435	0.0115
	1/26/2022	0.0331	0.00488	0.0137	0.00718	0.0755	0.0827	<0.00270	<0.00286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000314 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00555	<0.00200	0.00112	<0.000228	<0.000623	0.0145	0.00380
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.0184	0.00572	0.0133	0.00676	0.0653	0.0721	<0.00270	<0.00286	0.000510 J	<0.000195	<0.000500	<0.000259	0.00165 J	<0.000214	<0.000183	0.000391 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00544	<0.00200	0.00149	<0.000228	<0.000623	0.0150	0.00409
	2/16/2022	0.0357	0.0270	0.0391	0.0307	0.205	0.244	<0.00270	<0.00286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000884 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0127	<0.00200	0.00392	<0.000228	<0.000623	0.0393	0.0103
	2/25/2022	0.0341	0.00559	0.0206	0.0111	0.134	0.145	<0.00270	<0.0000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000996 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0114	<0.00200	0.00295	<0.000228	<0.000623	0.0386	0.00997
	3/3/2022	0.0370	0.00673	0.0378	0.0160	0.225	0.244	<0.00270	<0.0000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00117	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0152	<0.00200	0.00456	<0.000228	<0.000623	0.0496	0.0126
	3/9/2022	0.0182	0.00790	0.0186	0.0131	0.0857	0.0988	<0.00270	<0.0000286	0.000910 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000683 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00211	<0.000228	<0.000623	0.0240	0.00659
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.0200	0.00793	0.0209	0.0133	0.0947	0.108	<0.00270	<0.0000286	0.000759 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000524 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00753	<0.00200	0.00212	<0.000228	<0.000623	0.0216	0.00583
	3/24/2022	0.0400	0.0151	0.0490	0.0321	0.252	0.284	<0.00270	0.00104	0.00192	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00135	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00487	<0.000228	<0.000623	0.0679	0.0170
	3/31/2022	0.0305	0.0309	0.0274	0.0311	0.267	0.311	<0.00270	0.00102	0.00142	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00138	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00896	<0.00200	0.00203	<0.000228	<0.000623	0.0551	0.0138
	4/6/2022	0.0303	0.0170	0.0140	0.0228	0.191	0.218	<0.00270	0.000939 J	0.00104	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00128	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00534	<0.00200	0.00110	<0.000228	<0.000623	0.0517	0.0136
	4/13/2022	0.0303	0.0271	0.0235	0.0218	0.135	0.157	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000812 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00770	<0.00200	0.00212	<0.000228	<0.000623	0.0368	0.00937
	4/20/2022	0.0246	0.0126	0.0157	0.0171	0.0994	0.117	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000513 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00439	<0.00200	0.000555 J	<0.000228	<0.000623	0.0224	0.00580
	4/28/2022	0.0384	0.0164	0.0617	0.0403	0.292	0.333	<0.00270	0.00162	0.00214	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00176	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0222	<0.00200	0.00675	<0.000228	<0.000623	0.0872	0.0220
	5/5/2022	0.0181	0.00219	0.0172	0.00988	0.110	0.120	<0.00270	0.000629 J	0.000796 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000733 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00608	<0.00200	0.00123	<0.000228	<0.000623	0.0276	0.00751
	5/10/2022	0.0197	0.00422	0.0184	0.0142	0.129	0.143	<0.00270	<0.000286	0.000957 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000953 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00681	<0.00200	0.00180	<0.000228	<0.000623	0.0367	0.00949
	5/19/2022	0.0329	0.00659	0.0505	0.0254	0.367	0.407	<0.00270	0.00159	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0196	<0.00200	0.00593	<0.000228	<0.000623	0.0645	0.0173
	5/26/2022	0.0238	0.00151	0.0208	0.00782	0.105	0.113	<0.00270	0.000780 J	0.00102	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000846 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00912	<0.00200	0.00268	<0.000228	<0.000623	0.0317	0.00846
	6/1/2022	0.0387	0.00639	0.0414	0.0212	0.230	0.253	<0.00270	<0.000286	0.00172	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00147	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0156	<0.00200	0.00395	<0.000228	<0.000623	0.0573	0.0153
	6/9/2022	0.0194	0.00241	0.0228	0.0102	0.118	0.128	<0.00270	<0.000286	0.00124	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00104	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0108	<0.00200	0.00304	<0.000228	<0.000623	0.0356	0.00926
	6/17/2022	0.0214	0.00267	0.0262	0.00984	0.126	0.136	<0.00270	0.00115	0.00161	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00139	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0132	<0.00200	0.00436	<0.000228	<0.000623	0.0490	0.0130
	6/23/2022	0.0235	0.00355	0.0311	0.0139	0.139	0.153	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00120	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.014						

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	1/4/2023	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	0.00543	<0.00135	0.00151	<0.000511	<0.000655	0.0132	0.00357
	3/3/2023	0.0154	0.01280	0.0166	0.0140	0.0714	0.0854	<0.00828	<0.000644	0.000719 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	0.00716	<0.00135	0.00209	<0.000511	<0.000655	0.0179	0.00495
	3/8/2023	0.0145	0.00263	0.00977	0.00699	0.0473	0.0543	<0.00828	<0.000644	0.000633 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	0.00648	<0.00135	0.00153	<0.000511	<0.000655	0.0157	0.00403
	3/15/2023	0.0129	0.00265	0.0105	0.00727	0.0393	0.0466	<0.00828	<0.000644	0.000568 J	<0.000442	<0.000801	<0.00643	<0.00204	<0.00118	<0.000472	<0.00919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00529	<0.00135	0.00134	<0.000511	<0.000655	0.0129	0.00348
	3/23/2023	0.0159	0.00204	0.0154	0.00843	0.0597	0.0681	<0.00828	0.000671 J	0.00120	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00972	<0.00135	0.00277	<0.000511	<0.000655	0.0267	0.00702
	3/29/2023	0.0132	0.00207	0.00611	0.00430	0.0168	0.0211	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00255	<0.00135	0.00061 J	<0.000511	<0.000655	0.00470	0.00128
	4/6/2023	0.0145	0.00333	0.0115	0.00862	0.0508	0.0594	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00878	<0.00135	0.00197 J	<0.000511	<0.000655	0.0225	0.00540
	4/14/2023	0.0156	0.0161	0.0193	0.0158	0.0719	0.0877	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00792	<0.00135	0.00245	<0.000511	<0.000655	0.0195	0.00548
	4/26/2023	0.0145	0.00380	0.0206	0.0140	0.0685	0.0825	<0.00828	0.000650 J	0.00145	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.000946 J	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.0114	<0.00135	0.00356	<0.000511	<0.000655	0.0348	0.00888
	5/2/2023	0.0121	0.00144	0.0115	0.00647	0.0350	0.0415	<0.00828	<0.000644	0.000716 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	0.00615	<0.00135	0.00169	<0.000511	<0.000655	0.0149	0.00410
	5/11/2023	0.0133	0.00355	0.0174	0.0123	0.0412	0.0535	<0.00828	0.000666 J	<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	0.00753	<0.00135	0.00239	<0.000511	<0.000655	0.0187	0.00536
	5/15/2023	0.00988	<0.000475	0.00646	0.00425	0.0253	0.0296	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00524	<0.00135	0.00122	<0.000511	<0.000655	0.0137	0.00304
	5/25/2023	0.0164	0.00150	0.0185	0.0106	0.0581	0.0687	<0.00828	<0.000644	0.00148	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.00109	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0114	<0.00135	0.00337	<0.000511	<0.000655	0.0334	0.00887
	5/30/2023	0.0122	0.00197	0.0199	0.00741	0.0249	0.0323	<0.00828	<0.000644	0.000558 J	0.000690 J	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00455	<0.00135	0.00138	<0.000511	<0.000655	0.0103	0.00300
	6/9/2023	0.0180	0.00256	0.0196	0.0129	0.0666	0.0795	<0.00828	0.00104	0.00151	<0.000442	<0.000801	<0.000643	0.00299 J	<0.00118	<0.000472	0.00115	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0114	<0.00135	0.00349	<0.000511	<0.000655	0.0433	0.0105
	6/15/2023	0.0123	0.00201	0.0144	0.00962	0.0404	0.0500	<0.00828	0.000779 J	<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	0.00809	<0.00135	0.00229	<0.000511	<0.000655	0.0248	0.00690
	6/23/2023	0.0172	0.00375	0.0266	0.0191	0.0738	0.0929	<0.00828	0.00100	0.0011																			



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	
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	<0.029												



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

Sample Designation	Date	(mg/L)														%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9	
Levey Well	5/27/2021	0.579	419	0.499 J	0.137	0.136	16.7	406	73.3	6.47	123	1,370	810	<4.00	1.85	6.5	
	6/2/2021	0.712	488	0.303 J	0.128	<0.0293	23.7	447	82.8	7.43	139	2,140	1,120	<4.00	-4.83	6.3	
	6/10/2021	0.415 J	247	1.10	0.124	1.38	22.2	273	54.9	4.90	84.8	1,270	669	<4.00	-2.53	6.5	
	6/16/2021	0.405 J	227	0.946	0.125	<0.0293	11.5	267	56.0	4.64	84.4	1,500	723	<4.00	-3.70	6.7	
	6/22/2021	0.405 J	230	1.00	0.117	1.67	28.9	298	53.1	4.74	80.7	1,230	657	<4.00	0.795	6.7	
	6/30/2021	0.398 J	237	1.07	0.140	0.205	23.8	258	51.9	4.32	74.6	1,200	676	<4.00	-5.560	6.9	
	7/1/2021	Levey Well Now Running Full Time															
	7/7/2021	0.469 J	305	0.705	0.128	<0.0293	41.3	337	67.2	5.46	96.3	1,780	764	<4.00	-0.751	6.6	
	7/14/2021	0.446 J	297	0.753	0.151	0.167	41.6	323	61.9	4.56	87.0	1,200	785	<4.00	-3.73	6.4	
	7/20/2021	0.180 J	290	0.223 J	0.0457 J	<0.0293	38.2	317	65.9	5.31	96.1	1,620	854	<4.00	-5.11	6.4	
	7/27/2021	0.437 J	281	0.491 J	0.126	1.42	41.3	338	66.9	5.14	95.9	1,240	790	<4.00	-0.522	6.2	
	8/5/2021	0.400 J	275	0.565	0.158	<0.0293	43.3	334	68.8	5.00	90.9	1,610	714	<4.00	2.12	6.6	
	8/11/2021	0.446 J	261	0.512	0.154	1.81	43.2	298	64.8	4.96	89.8	1,470	764	<4.00	-3.46	6.4	
	8/19/2021	0.583	380	0.357 J	0.177	0.694	39.1	336	68.2	6.69	111	2,030	769	<4.00	-3.85	6.6	
	8/25/2021	0.483 J	249	0.680	0.125	1.13	41.4	305	59.6	4.65	83.9	1,050	698	<4.00	-0.532	6.6	
	9/2/2021	0.418 J	233	0.688	0.110	0.147	20.1	287	52.2	3.98	75.2	1,140	588	<4.00	2.27	7.0	
	9/8/2021	0.357 J	257	0.442 J	0.0997 J	1.20	43.4	300	61.8	4.83	87.3	1,360	703	<4.00	-1.15	6.6	
	9/14/2021	0.372 J	250	0.511	0.118	1.11	42.3	285	58.7	4.81	81.7	988	730	<4.00	-4.44	6.4	
	9/21/2021	0.546	227	0.951	0.224	<0.0293	37.4	313	68.2	5.30	97.5	1,080	610	<4.00	7.72	6.6	
	9/29/2021	0.535	248	0.542	0.186	0.164	41.9	302	59.9	4.60	85.4	1,410	765	<4.00	-2.94	6.6	
	10/7/2021	0.454 J	235	0.582	1.10	<0.0293	40.5	323	65.5	4.79	88.3	1,310	765	<4.00	0.449	6.6	
	10/13/2021	0.459 J	238	0.608	0.198	1.10	40.9	252	52.7	3.97	75.6	1,030	765	<4.00	-10.6	6.7	
	10/21/2021	0.470 J	227	0.557	0.143	<0.0293	36.9	238	51.0	3.54	72.5	1,250	722	<4.00	-10.2	6.5	
	10/27/2021	0.444 J	238	0.469 J	0.193	0.0910 J	42.5	330	67.2	5.31	94.2	1,290	706	<4.00	3.95	6.7	
	11/5/2021	0.367 J	231	1.45	0.220	<0.0293	41.7	328	63.6	5.06	90.7	1,050	657	<4.00	5.76	6.9	
	11/11/2021	0.379 J	229	0.594	0.238	<0.0293	36.9	221	48.1	3.36	71.5	1,140	571	<4.00	-5.92	7.0	
	11/18/2021	0.560	247	0.397 J	0.176	<0.0293	44.3	276	50.8	4.29	76.4	1,350	698	<4.00	-5.71	6.6	
	11/24/2021	0.455 J	232	0.646	0.203	0.718	41.9	253	52.5	4.07	76.6	1,240	546	<4.00	-0.200	6.6	
	12/1/2021	0.497 J	233	0.652	0.144	<0.0293	42.0	284	55.9	4.31	82.4	1,040	644	<4.00	-0.133	6.9	
	12/8/2021	0.516	230	0.620	0.187	<0.0293	42.5	261	55.8	4.20	82.9	1,200	633	<4.00	-1.56	6.5	
	12/16/2021	0.490 J	228	0.528	0.251	<0.0293	42.1	282	55.3	4.13	81.9	1,280	649	<4.00	-0.883	6.4	
	12/22/2021	0.480 J	230	0.294 J	0.223	<0.0293	43.3	304	58.5	4.66	85.8	1,270	619	<4.00	3.67	6.4	
	12/29/2021	0.476 J	225	0.588	0.224	<0.0293	43.8	300	57.5	4.69	84.9	1,220	657	<4.00	1.62	6.6	
	1/6/2022	0.386 J	226	0.500	0.182	<0.0293	42.7	278	52.9	4.11	79.0	1,650	711	<4.00	-4.09	6.4	
	1/12/2022	0.438 J	223	0.561	0.178	<0.0293	42.8	254	49.2	3.60	71.9	1,090	633	<4.00	-4.90	6.1	
	1/19/2022	0.446 J	223	0.523	0.178	<0.0293	43.6	288	57.2	4.34	80.1	1,780	688	<4.00	-1.41	6.3	
	1/26/2022	0.440 J	220	0.580	0.181	0.0834 J	41.7	286	56.4	4.50	85.1	1,140	706	<4.00	-1.64	6.4	
	2/2/2022	Unable to Sample due to 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	6.4		
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		



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	9/22/2022	0.468 J	217	0.316 J	0.546	<0.0293	52.8	179	39.9	3.11	66.4	1,250	613	<4.00	-17.7	6.4
	9/28/2022	2.32	214	0.688	0.234	<0.0293	47.2	242	48.3	4.11	73.6	1,160	592	<4.00	-4.04	6.4
	10/4/2022	0.515	200	0.740	0.396	<0.0293	45.0	242	50.2	4.07	78.2	706	456	<4.00	4.21	6.6
	10/14/2022	0.495 J	212	0.655	0.464	<0.0293	49.1	208	42.7	3.22	68.5	1,250	719	<4.00	-16.5	6.3
	10/19/2022	1.08 J	206	0.612 J	0.359	<0.0293	46.0	250	51.3	4.05	81.9	1,340	676	<4.00	-5.64	6.6
	10/27/2022	0.412 J	201	0.631	0.0757 J	0.690	40.1	322	64.8	5.47	95.2	977	740	<4.00	3.53	6.4
	11/2/2022	0.473 J	216	0.509	0.165	<0.0293	46.1	247	49.2	4.26	76.4	1,230	681	<4.00	-6.86	6.3
	11/9/2022	0.461 J	218	0.683	0.0934 J	<0.0293	46.5	238	44.2	3.36	73.3	1,450	708	<4.00	-11.0	6.5
	11/16/2022	0.480 J	219	0.493 J	0.154	<0.0293	47.5	250	50.0	4.20	78.0	1,340	611	<4.00	-3.43	6.8
	11/30/2022	0.487 J	218	0.710	0.0811 J	<0.0293	44.9	208	43.2	3.12	70.9	1,270	618	<4.00	-11.7	6.7
	12/9/2022	0.335 J	206	0.685	0.153	0.108	40.5	244	49.3	3.61	62.9	1,170	626	<4.00	-5.72	6.5
	12/15/2022	0.311 J	211	0.628	0.137	<0.0293	40.5	254	48.3	4.05	76.3	956	440	<4.00	6.29	6.3
	12/21/2022	0.392 J	214	0.732	0.144	<0.0293	44.5	258	49.1	4.69	80.4	1,130	656	<4.00	-3.79	6.5
	12/29/2022	0.515	209	0.568	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
	4/6/2023	<0.0711	219	0.206 J	0.0769 J	<0.0293	47.4	249	49.4	4.08	79.7	1,080	680	<4.00	-6.66	6.7
	4/14/2023	<0.0711	219	0.229 J	0.0834 J	<0.0293	49.4	224	45.2	3.78	71.8	1,200	608	<4.00	-8.07	6.6
	4/26/2023	0.475 J	215	0.471 J	0.129	0.395	47.7	264	52.9	4.25	80.2	1,240	651	<4.00	-2.67	6.4
	5/2/2023	<0.0711	225	0.331 J	0.321	<0.0293	54.1	302	56.0	4.60	86.7	1,290	688	<4.00	-0.0776	6.4
	5/11/2023	0.400 J	216	0.400 J	10.4	2.66	44.9	236	51.7	4.41	82.0	1,680	637	<4.00	-7.60	6.5
	5/15/2023	0.326 J	214	0.789	0.243	0.793	47.8	202	41.3	3.26	67.1	1,320	547	<4.00	-9.15	6.5
	5/25/2023	0.348 J	217	0.617	0.0603 J	0.691	46.8	259	48.8	4.21	77.4	1,310	697	<4.00	-6.47	6.5
	5/30/2023	0.353 J	231	0.154 J	0.351	0.664	45.5	187	37.8	2.87	66.2	979	400	<4.00	-6.63	7.1
	6/9/2023	0.482 J	225	0.451 J	0.180	<0.0293	49.6	224	43.7	3.21	73.8	1,360	710	<4.00	-13.4	6.7
	6/15/2023	0.372 J	230	0.474 J	0.139	0.348	49.7	255	49.6	3.91	81.1	1,380	679	<4.00	-6.66	6.5
	6/23/2023	0.386 J	239	0.463 J	0.123	<0.0293	50.8	254	50.9	4.38	81.4	1,240	712	<4.00	-8.19	6.5
	6/26/2023	0.327 J	218	0.301 J	0.0682 J	2.51	45.0	260	42.3	3.70	69.4	1,180	719	<4.00	-8.99	6.5
	7/5/2023	0.308 J	210	0.211 J	0.0838 J	1.08	41.5	270	52.0	4.24	84.5	1,140	744	<4.00	-5.11	6.7
	7/13/2023	0.312 J	221	0.211 J	0.0979 J	2.07	48.1	260	44.0	3.62	71.0	1,360	707	<4.00	-8.5	6.5
	7/17/2023	0.326 J	224	0.145 J	0.0682 J	<0.0293	47.5	185	38.1	3.13	63.0	1,080	575	<4.00	-14.8	6.6
	7/27/2023	0.489 J	300	0.280 J	<0.0391	0.977	47.1	389	71.1	7.20	109	1,880	1,010	<4.00	-3.06	6.4
	7/31/2023	0.384 J	233	0.635	<0.0391	<0.0293	42.7	207	44.6	4.26	93.7	1,100	445	<4.00	-2.22	7.5
	8/9/2023	<0.0711	275	0.104 J	0.162	<0.0293	55.5	374	60.6	5.78	112	1,750	1,090	<4.00	-7.00	6.6
	8/14/2023	0.552	297	0.100 J	0.0896 J	0.130	41.8	426	74.9	7.31	137	1,810	1,110	<4.00	-0.583	6.9
	8/23/2023	0.352 J	228	0.510	0.142	4.70	47.9	232	44.6	4.00	75.4	1,160	681	<4.00	-11.1	6.5
	8/28/2023	0.380 J	226	0.548	0.0831 J	2.24	16.7	213	42.1	3.24	76.2	1,210	527	<4.00	-5.41	7.6
	9/7/2023	0.283 J	206	0.467 J	0.139	0.242	46.2	260	52.4	4.16	87.3	1,160	679	<4.00	-3.25	6.4
	9/13/2023	<0.0711	233	0.257	0.166	<0.0293	54.1	275	53.8	3.83	85.6	1,200	715	<4.00	-5.41	6.3
	9/22/2023	0.459 J	226	0.442 J	0.124	2.69	48.9	333	52.1	4.54	81.9	1,320	699	<4.00	1.81	6.2
	9/25/2023	0.435 J	228	0.497 J	0.129	1.25	47.8	195	39.9	3.27	71.7	1,030	398	<4.00	-4.03	7.1
	10/2/2023	<0.0711	223	0.651	0.0415 J	<0.0293	52.6	209	41.7	3.39	67.7	1,450	650	<4.00	-13.6	6.5
	10/9/2023	0.432 J	233	0.738	0.0930 J	0.423	45.2	224	45.4	3.61	80.5	1,160	407	<4.00	1.16	6.9
	10/17/2023	0.543	220	0.363 J	0.156	0.415	50.0	337	65.9	5.23	105	1,300	714	<4.00	5.00	6.3
	10/23/2023	0.261 J	225	0.414 J	0.0867 J	<0.0293	44.5	189	39.8	2.65	73.2	1,170	410	<4.00	-5.00	6.8
	10/31/2023	0.414 J	240	0.498 J	0.0990 J	0.601	50.4	255	47.6	3.97	89.5	1,250	534	<4.00	-0.384	6.4



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

Sample Designation	Date	(mg/L)														%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)	Cation-Anion Balance		
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE		6-9
MW-1	5/26/2020	NA	363	0.913	0.998	1.03	283					NA					7.21
	6/30/2020	0.591	342	<0.500	0.145	<0.100	88.8	401	84.7	6.41	191	1,890	1,290	<4.00	NA		6.75
	8/20/2020	0.634	339	<0.500	<0.100	<0.100	68.3	401	90.3	5.38	147	1,760	1,210	<4.00	NA		6.30
	10/23/2020	NA	353									NA					
	11/24/2020	0.629	345	0.309 J	0.161	2.00	73.2	412	82.8	5.61	124	1,630	1,200	<4.00	0.400		6.45
	12/18/2020	NA	375			NA		414	79.7	5.41	117	1,380	1,160	<4.00	1.30		6.58
	12/23/2020	0.627	339	0.316 J	0.117	<0.0293	73.2	408	82.5	6.58	119	1,600	1,130	<4.00	2.10		6.56
	12/30/2020	NA	347									NA					6.37
	1/6/2021	NA	325									NA					6.51
	1/12/2021	NA	359					NA					1,160	<4.00	NA		6.42
	1/20/2021	NA	353					NA					1,160	<4.00	NA		6.34
	1/27/2021	NA	334					NA					1,010	<4.00	NA		6.44
	2/3/2021	NA	368					NA					1,130	<4.00	NA		6.38
	2/10/2021	NA	339					NA					1,160	<4.00	NA		6.45
	2/24/2021	NA	343					NA					1,070	<4.00	NA		6.45
	3/4/2021	NA	339					NA					1,070	<4.00	NA		6.38
	3/10/2021	NA	324					NA					1,020	<4.00	NA		6.34
	3/17/2021	NA	330					NA					1,020	<4.00	NA		6.16
	3/25/2021	NA	312	0.367 J	0.129	<0.100	77.5			NA			980	<4.00	NA		6.9
	3/31/2021	NA	309	0.387 J	0.175	<0.0293	81.3			NA			977	<4.00	NA		6.7
	4/8/2021	NA	290	0.515	0.0994 J	<0.0293	58.1			NA			933	<4.00	NA		6.5
	4/15/2021	NA	272	0.583	0.107	<0.0293	54.0			NA			833	<4.00	NA		6.6
	4/21/2021	NA	299	0.369 J	0.135	<0.0293	52.7			NA			927	<4.00	NA		6.5
	4/28/2021	NA	315	0.315 J	0.119	<0.0293	57.8			NA			994	<4.00	NA		6.5
	5/5/2021	NA	317	0.358 J	0.135	<0.0293	68.5			NA			1,020	<4.00	NA		6.5
	5/13/2021	NA	270	0.492 J	0.125	0.729 J	55.6			NA			819	<4.00	NA		6.8
	5/19/2021	NA	324	0.335 J	<0.0391	2.58	65.0			NA			1,070	<4.00	NA		6.5
	5/27/2021	NA	325	0.380 J	0.128	0.148	70.3			NA			971	<4.00	NA		6.3
	6/2/2021	NA	315	0.305 J	0.146	<0.0293	72.8			NA			979	<4.00	NA		6.5
	6/10/2021	NA	295	0.561	0.130	1.44	64.7			NA			768	<4.00	NA		6.6
	6/16/2021	NA	320	0.478 J	0.127	0.243	59.1			NA			811	<4.00	NA		6.7
	6/22/2021	NA	311	0.478 J	0.119	1.65	56.9			NA			790	<4.00	NA		6.8
	6/30/2021	NA	308	0.561	0.145	0.168	64.2			NA			813	<4.00	NA		6.7
	7/1/2021							Levey Well Now Running Full Time									
	7/7/2021	NA	325	0.547	0.127	<0.0293	75.9			NA			761	<4.00	NA		6.8
	7/14/2021	NA	360	0.418 J	0.134	0.0880 J	112			NA			931	<4.00	NA		6.8
	7/20/2021	NA	324	0.138 J	0.0457 J	<0.0293	81.5			NA			750	<4.00	NA		6.7
	7/27/2021	NA	352	0.340 J	0.148	1.22	82.8			NA			786	<4.00	NA		6.7
	8/5/2021	NA	336	0.426 J	0.117	<0.0293	79.0			NA			695	<4.00	NA		6.9
	8/11/2021	NA	326	0.342 J	0.153	1.48	85.5			NA			735	<4.00	NA		6.6
	8/19/2021	NA	334	0.227 J	0.149	1.36	81.9			NA			810	<4.00	NA		6.8
	8/25/2021	NA	328	0.395 J	0.132	0.947 J	76.5			NA			809	<4.00	NA		6.8
	9/2/2021	NA	325	0.311 J	0.105	<0.0293	74.7			NA			755	<4.00	NA		6.8
	9/8/2021	NA	272	0.442 J	0.103	0.782 J	64.5			NA			584	<4.00	NA		6.9
	9/14/2021	NA	332	0.276 J	0.103	0.776 J	98.4			NA			660	<4.00	NA		7.0
	9/21/2021	NA	203	0.896	0.186	<0.0293	32.4			NA			419	<4.00	NA		6.9
	9/29/2021	NA	232	0.659	0.168	0.0819 J	40.1			NA			505	<4.00	NA		6.9
	10/7/2021	NA	253	0.626	0.186	<0.0293	58.2			NA			567	<4.00	NA		6.9
	10/13/2021	NA	268	0.659	0.178	<0.0293	62.9			NA			564	<4.00	NA		8.1
	10/21/2021	NA	293	0.409 J	0.144	<0.0293	81.1			NA			591	<4.00	NA		7.1
	11/5/2021	NA	282	0.631	0.191	<0.0293	77.1			NA			571	<4.00	NA		7.0
	11/11/2021	NA	311	0.309 J	0.258	<0.0293	89.9			NA			536	<4.00	NA		7.1
	11/18/2021	NA	172	0.741	0.151	<0.0293	23.1			NA			314	<4.00	NA		7.4
	11/24/2021	NA	267	0.429 J	0.220	0.549	81.4			NA			502	<4.00	NA		6.8
	12/1/2021	NA	222	0.596	0.141	<0.0293	61.0			NA			390	<4.00	NA		7.3
	12/8/2021	NA	226	0.358 J	0.162	<0.0293	66.0			NA			484	<4.00	NA		6.9
	12/16/2021	NA	174	0.504	0.143	<0.0293	49.9			NA			398	<4.00	NA		6.9
	12/22/2021	NA	163	0.517	0.240	<0.0293	40.2			NA			312	<4.00	NA		7.1
	12/29/2021	NA	142	0.591	0.205	0.295	42.2			NA			302	<4.00	NA		7.3



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

Sample Designation	Date	(mg/L)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)		
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
MW-1	1/6/2022	NA	138	0.471 J	0.180	<0.0293	43.2			NA			335	<4.00	NA	7.0
	1/12/2022	NA	149	0.491 J	0.154	0.0428 J	42.1			NA			326	<4.00	NA	6.7
	1/19/2022	NA	141	0.532	0.145	0.227	45.1			NA			324	<4.00	NA	7.0
	1/26/2022	NA	142	0.548	0.177	0.150	44.7			NA			282	<4.00	NA	7.1
	2/2/2022				Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.											
	2/8/2022	NA	189	0.631	0.0688 J	0.358	49.6			NA			380	<4.00	NA	6.9
	2/16/2022	NA	151	0.712	0.0561 J	0.344	41.5			NA			384	<4.00	NA	7.1
	2/25/2022	NA	171	0.739	0.125	0.156	50.3			NA			342	<4.00	NA	7.1
	3/3/2022	NA	158	0.531	0.198	0.181	45.9			NA			360	<4.00	NA	6.9
	3/9/2022	NA	148	0.454 J	0.170	<0.0293	45.4			NA			323	<4.00	NA	7.2
	3/14/2022				Booster Pump for Levey Well Repaired and Back on Running Full Time.											
	3/16/2022	NA	145	0.546	0.147	<0.0293	38.1			NA			339	<4.00	NA	7.0
	3/24/2022	NA	147	0.610	<0.0391	<0.0293	42.9			NA			297	<4.00	NA	7.2
	3/31/2022	NA	143	0.568	0.164	<0.0293	40.4			NA			275	<4.00	NA	7.1
	4/6/2022	NA	133	0.677	0.186	<0.0293	39.7			NA			262	<4.00	NA	7.1
	4/13/2022	NA	129	0.767	<0.0391	<0.0293	40.9			NA			259	<4.00	NA	7.6
	4/20/2022	NA	173	0.574	0.152	0.176	42.4			NA			362	<4.00	NA	7.0
	4/28/2022	NA	136	0.608	0.0700 J	0.0717 J	41.7			NA			300	<4.00	NA	7.5
	5/5/2022	NA	118	0.746	<0.0391	1.75	41.1			NA			253	<4.00	NA	7.2
	5/10/2022	NA	116	0.709	0.0815 J	<0.0293	43.9			NA			250	<4.00	NA	7.2
	5/19/2022	NA	106	0.643	0.0743 J	0.199	41.0			NA			262	<4.00	NA	7.1
	5/26/2022	NA	98.7	0.720	0.0777 J	0.809	44.7			NA			256	<4.00	NA	7.2
	6/1/2022	NA	100	0.690	0.0629 J	<0.0293	46.4			NA			240	<4.00	NA	7.4
	6/9/2022	NA	99.9	0.743	<0.0391	<0.0293	46.6			NA			246	<4.00	NA	7.1
	6/17/2022	NA	83.5	0.710	0.146	0.275	47.9			NA			253	<4.00	NA	7.3
	6/23/2022	NA	83.9	0.616	0.238	<0.0293	47.7			NA			258	<4.00	NA	7.2
	6/29/2022	NA	84.8	0.644	0.199	0.556	48.0			NA			264	<4.00	NA	7.2
	7/7/2022	NA	83.7	0.660	0.0413 J	0.0458 J	47.7			NA			238	<4.00	NA	7.4
	7/13/2022	NA	91.3	0.778	0.102	<0.0293	49.2			NA			253	<4.00	NA	7.2
	7/20/2022	NA	81.5	0.766	<0.0391	<0.0293	48.5			NA			249	<4.00	NA	7.2
	7/27/2022	NA	85.8	0.766	0.0482 J	<0.0293	47.2			NA			268	<4.00	NA	7.7
	8/4/2022	NA	77.5	0.633	0.126	0.118	43.1			NA			253	<4.00	NA	7.2
	8/10/2022	NA	68.3	0.737	<0.0391	0.212	40.9			NA			278	<4.00	NA	7.2
	8/18/2022	NA	77.7	0.752	0.0696 J	0.154	39.4			NA			262	<4.00	NA	7.0
	8/24/2022	NA	92.0	0.739	<0.100	<0.100	40.8			NA			273	<4.00	NA	7.2
	8/31/2022	NA	85.9	0.628	<0.0391	<0.0293	36.7			NA			277	<4.00	NA	7.4
	9/15/2022	NA	86.4	1.03	0.0909 J	0.206	33.4			NA			277	<4.00	NA	7.0
	9/22/2022	NA	95.8	0.585	0.518	<0.0293	38.4			NA			280	<4.00	NA	7.3
	9/28/2022	NA	91.2	0.702	<0.0391	<0.0293	32.8			NA			285	<4.00	NA	7.3
	10/4/2022	NA	75.6	0.803	0.376	0.201	33.7			NA			272	<4.00	NA	7.2
	10/14/2022	NA	81.0	0.807	0.360	0.195	33.1			NA			266	<4.00	NA	7.3
	10/19/2022	NA	136	<0.100	<0.0391	<0.0293	19.2			NA			283	<4.00	NA	7.4
	10/27/2022	NA	80.4	0.750	0.0601 J	0.423	29.8			NA			277	<4.00	NA	7.4
	11/2/2022	NA	80.0	0.681	0.120	0.154	29.8			NA			252	<4.00	NA	7.2
	11/9/2022	NA	81.1	0.746	0.141	0.117	32.5			NA			294	<4.00	NA	7.4
	11/16/2022	NA	82.2	0.738	0.120	0.384	30.9			NA			282	<4.00	NA	7.3
	11/30/2022	NA	88.1	0.602	0.140	0.141	45.4			NA			300	<4.00	NA	7.3
	12/9/2022	NA	83.7	0.809	0.0610 J	0.247	44.2			NA			309	<4.00	NA	7.5
	12/15/2022	NA	82.1	0.786	<0.0391	0.121	44.3			NA			348	<4.00	NA	7.2
	12/21/2022	NA	84.4	0.676	0.0802 J	<0.0293	43.6			NA			377	<4.00	NA	7.3
	12/29/2022	NA	77.3	0.555	0.211	0.310	33.4			NA			409	<4.00	NA	7.1
	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



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

Sample Designation	Date	(mg/L)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)		
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
MW-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
	4/6/2023	NA	99.3	0.262 J	0.0504 J	<0.0293	55.6			NA			443	<4.00	NA	7.2
	4/14/2023	NA	87.6	0.748	0.0530 J	<0.0293	44.5			NA			555	<4.00	NA	7.4
	4/26/2023	NA	95.7	0.537	0.0898 J	0.439	53.1			NA			539	<4.00	NA	7.2
	5/2/2023	NA	95.2	0.966	0.406	<0.0293	51.8			NA			548	<4.00	NA	7.1
	5/11/2023	NA	104	0.676	0.174	1.59	59.7			NA			580	<4.00	NA	7.2
	5/15/2023	NA	97.6	0.859	<0.0391	0.998	53.6			NA			579	<4.00	NA	7.0
	5/25/2023	NA	86.5	0.585	0.0886 J	0.882	31.7			NA			687	<4.00	NA	7.0
	5/30/2023	NA	84.8	<0.100	0.432	1.32	57.2			NA			692	<4.00	NA	7.0
	6/9/2023	NA	96.5	0.291 J	0.149	0.158	21.0			NA			823	<4.00	NA	7.0
	6/15/2023	NA	97.7	0.451 J	0.0846 J	0.491	43.0			NA			667	<4.00	NA	6.9
	6/23/2023	NA	98.2	0.469 J	0.0975 J	0.178	34.8			NA			754	<4.00	NA	7.3
	6/26/2023	NA	94.3	0.347 J	0.0804 J	2.38	35.8			NA			738	<4.00	NA	6.9
	7/5/2023	NA	104	0.274 J	0.0657 J	0.904	57.9			NA			665	<4.00	NA	7.2
	7/13/2023	NA	104	0.270 J	0.0760 J	2.02	45.3			NA			738	<4.00	NA	6.9
	7/17/2023	NA	98.4	0.209 J	0.0655 J	<0.0293	42.6			NA			769	<4.00	NA	6.9
	7/27/2023	NA	101	0.536	0.183	0.701	53.2			NA			651	<4.00	NA	6.9
	7/31/2023	NA	108	0.415 J	<0.0391	<0.0293	61.5			NA			685	<4.00	NA	7.3
	8/9/2023	NA	103	0.353 J	0.118	<0.0293	81.3			NA			685	<4.00	NA	7.1
	8/14/2023	NA	102	0.484 J	0.0842 J	0.305	79.5			NA			632	<4.00	NA	7.7
	8/23/2023	NA	116	0.532	0.0811 J	3.69	91.0			NA			700	<4.00	NA	7.1
	8/28/2023	NA	98.7	0.472 J	0.0791 J	2.78	75.8			NA			692	<4.00	NA	8.0
	9/7/2023	NA	105	0.410 J	<0.0391	0.869	77.8			NA			659	<4.00	NA	7.0
	9/13/2023	NA	121	0.560	<0.0391	<0.0293	103			NA			694	<4.00	NA	6.8
	9/22/2023	NA	111	0.412 J	0.119	2.43	93.6			NA			760	<4.00	NA	6.9
	9/25/2023	NA	112	0.540	<0.0391	2.13	92.3			NA			733	<4.00	NA	6.8
	10/2/2023	NA	112	0.724	0.150	<0.0293	98.9			NA			727	<4.00	NA	6.8
	10/9/2023	NA	<0.250	0.551	<0.0391	<0.0293	<0.200			NA			735	<4.00	NA	6.8
	10/17/2023	NA	117	0.312 J	0.116	0.437	110			NA			782	<4.00	NA	6.8
	10/23/2023	NA	114	0.505	<0.0391	<0.0293	107			NA			821	<4.00	NA	6.6
	10/31/2023	NA	123	0.257 J	0.0807 J	0.783	107			NA			837	<4.00	NA	6.8



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

Sample Designation	Date	(mg/L)														%	SU			
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH				
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9				
MW-2	5/26/2020	NA	106	0.341 J	1.920	0.639	120	NA												6.32
	6/30/2020	0.535	115	<0.500	1.13	0.656	111	478	59.6	6.66	102	1,320	1,320	<4.00	NA		6.36			
	8/20/2020	0.603	150	<0.500	1.10	0.439	122	559	73.5	7.46	102	1,700	1,350	<4.00	NA		6.01			
	10/23/2020	NA	107																	
	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			



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

Sample Designation	Date	(mg/L)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)		
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
MW-2	1/6/2022	NA	106	<0.100	0.559	0.746	97.5			NA			1,300	<4.00	NA	6.4
	1/12/2022	NA	73.9	0.288 J	0.506	1.47	92.2			NA			1,150	<4.00	NA	6.2
	1/19/2022	NA	120	<0.100	0.591	0.757	104			NA			1,290	<4.00	NA	6.1
	1/26/2022	NA	120	<0.100	0.592	0.608	100			NA			1,270	<4.00	NA	6.1
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.														
	2/8/2022	NA	148	0.156 J	0.683	1.03	125			NA			1,290	<4.00	NA	6.1
	2/16/2022	NA	186	0.409 J	0.809	0.338	113			NA			1,320	<4.00	NA	6.2
	2/25/2022	NA	133	0.704	0.536	0.647	154			NA			1,280	<4.00	NA	6.3
	3/3/2022	NA	126	<0.100	0.776	0.992	112			NA			1,360	<4.00	NA	6.1
	3/9/2022	NA	167	<0.100	0.789	2.12	133			NA			1,330	<4.00	NA	6.2
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.														
	3/16/2022	NA	165	<0.100	0.890	1.47	135			NA			1,350	<4.00	NA	6.2
	3/24/2022	NA	140	<0.100	<0.0391	0.389	120			NA			1,320	<4.00	NA	6.3
	3/31/2022	NA	150	<0.100	<0.0391	1.65	106			NA			1,340	<4.00	NA	6.3
	4/6/2022	NA	130	0.175 J	0.619	1.60	111			NA			1,360	<4.00	NA	6.2
	4/13/2022	NA	135	0.271 J	0.589	1.67	108			NA			1,380	<4.00	NA	6.5
	4/20/2022	NA	198	0.174 J	0.966	0.722	121			NA			1,330	<4.00	NA	6.4
	4/28/2022	NA	156	0.172 J	0.711	0.434	118			NA			1,380	<4.00	NA	6.4
	5/5/2022	NA	116	0.229 J	0.586	11.5	112			NA			1,330	<4.00	NA	6.3
	5/10/2022	NA	134	0.230 J	0.548	1.83	120			NA			1,320	<4.00	NA	6.3
	5/19/2022	NA	133	0.116 J	<0.0391	0.373	118			NA			1,380	<4.00	NA	6.2
	5/26/2022	NA	107	0.196 J	0.392	1.14	104			NA			1,320	<4.00	NA	6.0
	6/1/2022	NA	130	0.107 J	0.481	1.47	116			NA			1,340	<4.00	NA	6.3
	6/9/2022	NA	103	<0.100	0.330	0.236	103			NA			1,320	<4.00	NA	6.2
	6/17/2022	NA	99.0	0.213 J	0.395	0.702	102			NA			1,290	<4.00	NA	6.4
	6/23/2022	NA	109	<0.100	0.494	5.21	107			NA			1,270	<4.00	NA	6.3
	6/29/2022	NA	82.6	0.111 J	0.351	0.827	89.7			NA			1,330	<4.00	NA	6.2
	7/7/2022	NA	107	0.141 J	0.399	0.440	98.3			NA			1,300	<4.00	NA	6.4
	7/13/2022	NA	95.3	0.262 J	0.306	1.23	100			NA			1,280	<4.00	NA	6.2
	7/20/2022	NA	134	<0.100	0.485	1.46	122			NA			1,360	<4.00	NA	6.3
	7/27/2022	NA	101	<0.100	0.403	3.86	105			NA			1,340	<4.00	NA	6.4
	8/4/2022	NA	107	0.112 J	0.451	0.477	99.9			NA			1,250	<4.00	NA	6.2
	8/10/2022	NA	89.4	0.189 J	0.189	0.210	97.2			NA			1,260	<4.00	NA	6.3
	8/18/2022	NA	99.1	0.122 J	0.333	0.303	100			NA			1,280	<4.00	NA	6.3
	8/24/2022	NA	110	0.172 J	0.282	0.427	103			NA			1,290	<4.00	NA	6.3
	8/31/2022	NA	94.8	<0.100	0.175	0.238	94.4			NA			1,280	<4.00	NA	6.3
	9/15/2022	NA	94.4	0.538	0.232	2.31	98.7			NA			1,320	<4.00	NA	6.3
	9/22/2022	NA	94.4	0.260 J	0.650	0.481	105			NA			1,320	<4.00	NA	6.3
	9/28/2022	NA	91.2	0.498 J	0.261	<0.0293	92.5			NA			1,280	<4.00	NA	6.3
	10/4/2022	NA	88.9	0.143 J	0.497	0.189	97.0			NA			1,320	<4.00	NA	6.2
	10/14/2022	NA	82.6	0.101 J	<0.0391	0.0760 J	84.6			NA			1,320	<4.00	NA	6.2
	10/19/2022	NA	51.2	<0.100	0.101	<0.0293	48.5			NA			1,290	<4.00	NA	6.5
	10/27/2022	NA	124	0.165 J	0.319	0.871	104			NA			1,340	<4.00	NA	6.3
	11/2/2022	NA	91.1	0.148 J	0.221	0.947	92.9			NA			1,330	<4.00	NA	6.2
	11/9/2022	NA	97.8	0.161 J	0.273	0.366	101			NA			1,430	<4.00	NA	6.4
	11/16/2022	NA	86.0	0.180 J	0.206	0.579	91.4			NA			1,300	<4.00	NA	6.6
	11/30/2022	NA	90.4	0.133 J	0.264	0.168	91.1			NA			1,300	<4.00	NA	6.4
	12/9/2022	NA	78.0	0.158 J	0.217	0.785	82.5			NA			1,290	<4.00	NA	6.4
	12/15/2022	NA	100	0.120 J	0.331	1.64	91.2			NA			1,140	<4.00	NA	6.2
	12/21/2022	NA	94.8	0.212 J	0.252	1.16	99.5			NA			1,270	<4.00	NA	6.3
	12/29/2022	NA	124	0.114 J	0.527	0.338	95.6			NA			1,250	<4.00	NA	6.5
	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



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

Sample Designation	Date	(mg/L)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)		
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
MW-2	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
	4/6/2023	NA	83.9	<0.100	0.112	<0.0293	91.2			NA			1,300	<4.00	NA	6.5
	4/14/2023	NA	154	0.533	0.577	<0.0293	99.0			NA			1,380	<4.00	NA	6.8
	4/26/2023	NA	78.7	<0.100	0.194	1.49	89.3			NA			1,320	<4.00	NA	6.4
	5/2/2023	NA	78.4	<0.100	0.508	0.464	94.5			NA			1,310	<4.00	NA	6.3
	5/11/2023	NA	90.3	0.159 J	1.62	0.427	92.1			NA			1,280	<4.00	NA	6.4
	5/15/2023	NA	77.7	<0.100	0.886	0.245	86.7			NA			1,210	<4.00	NA	6.3
	5/25/2023	NA	74.3	0.113 J	0.166	1.47	81.9			NA			1,330	<4.00	NA	6.3
	5/30/2023	NA	77.2	<0.100	0.551	0.721	92.1			NA			1,340	<4.00	NA	6.3
	6/9/2023	NA	73.4	0.129 J	0.245	0.720	87.1			NA			1,310	<4.00	NA	6.4
	6/15/2023	NA	78.0	0.172 J	0.197	1.01	89.6			NA			1,310	<4.00	NA	6.4
	6/23/2023	NA	99.1	0.463 J	0.110	0.318	38.7			NA			788	<4.00	NA	7.4
	6/26/2023	NA	76.0	<0.100	0.162	6.73	90.5			NA			1,340	<4.00	NA	6.4
	7/5/2023	NA	72.5	<0.100	0.135	4.20	87.1			NA			1,290	<4.00	NA	6.4
	7/13/2023	NA	77.8	<0.100	0.119	3.29	96.3			NA			1,310	<4.00	NA	6.4
	7/17/2023	NA	74.1	0.478 J	0.126	<0.0293	103			NA			1,280	<4.00	NA	6.3
	7/27/2023	NA	75.4	0.181 J	0.217	1.38	88.6			NA			1,270	<4.00	NA	6.3
	7/31/2023	NA	71.5	<0.100	<0.0391	0.450	94.9			NA			1,330	<4.00	NA	6.8
	8/9/2023	NA	82.0	<0.100	0.278	0.497	109			NA			1,350	<4.00	NA	6.4
	8/14/2023	NA	76.3	0.171 J	0.149	0.523	99.6			NA			1,320	<4.00	NA	6.8
	8/23/2023	NA	77.0	0.148 J	0.201	7.57	86.5			NA			1,340	<4.00	NA	6.5
	8/28/2023	NA	69.5	0.107 J	0.229	5.53	79.4			NA			1,340	<4.00	NA	7.2
	9/7/2023	NA	65.9	0.182 J	0.234	0.584	81.0			NA			1,250	<4.00	NA	6.3
	9/13/2023	NA	77.6	<0.100	0.276	0.0903 J	98.8			NA			1,230	<4.00	NA	6.6
	9/22/2023	NA	76.5	<0.100	0.329	4.90	85.8			NA			1,300	<4.00	NA	6.2
	9/25/2023	NA	68.2	<0.100	0.170	4.04	77.3			NA			1,230	<4.00	NA	6.3
	10/2/2023	NA	73.0	0.354 J	0.340	0.380	88.8			NA			1,290	<4.00	NA	6.2
	10/9/2023	NA	70.2	0.214 J	0.251	1.52	84.8			NA			1,260	<4.00	NA	6.2
	10/17/2023	NA	75.4	<0.100	0.297	1.17	90.3			NA			1,330	<4.00	NA	6.2
	10/23/2023	NA	90.7	<0.100	0.262	0.877	101			NA			1,300	<4.00	NA	6.1
	10/31/2023	NA	69.4	<0.100	0.171	0.856	88.5			NA			1,080	<4.00	NA	6.3

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		



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	6/1/2022	0.800 J	19.0	<0.926	<0.926	<0.894	<0.926	20.5
	6/9/2022	0.600 J	24.6	<0.962	<0.962	<0.929	<0.962	20.3
	6/17/2022	<0.495	21.1	<0.918	<0.918	<0.886	<0.918	18.3
	6/23/2022	0.800 J	32.5	<0.932	<0.932	<0.900	<0.932	18.0
	6/29/2022	1.00 J	33.2	0.954 J	<0.923	<0.891	0.954 J	15.8
	7/7/2022	0.600 J	22.2	<0.947	<0.947	<0.914	<0.947	23.1
	7/13/2022	<0.495	31.9	<0.950	<0.950	<0.917	<0.950	20.6
	7/20/2022	<0.495	31.4	<0.959	<0.959	<0.926	<0.959	20.0
	7/27/2022	<0.495	10.6	<0.904	<0.904	<0.872	<0.904	17.6
	8/4/2022	0.800 J	31.9	<0.906	<0.906	<0.875	<0.906	19.2
	8/10/2022	1.00 J	35.0	<0.929	<0.929	<0.897	<0.929	19.8
	8/18/2022	<0.495	52.4	<1.04	<1.04	<1.00	<1.04	20.7
	8/24/2022	1.40 J	34.4	<4.78	<4.78	<4.78	<4.78	18.2
	8/31/2022	1.20 J	22.0	<0.932	<0.932	<0.900	<0.932	19.9
	9/15/2022	0.800 J	55.4	<0.988	<0.988	<0.954	<0.988	18.6
	9/22/2022	<0.495	28.0	<0.944	<0.944	<0.911	<0.944	21.0
	9/28/2022	1.20 J	28.5	<0.956	<0.956	<0.923	<0.956	17.9
	10/4/2022	0.800 J	34.2	<0.895	<0.895	<0.864	<0.895	17.8
	10/14/2022	1.20 J	26.6	<0.935	<0.935	<0.902	<0.935	18.7
	10/19/2022	<0.495	22.4	<0.981	<0.981	<0.947	<0.981	18.4
	10/27/2022	<0.495	22.0	<1.00	<1.00	<0.968	<1.00	25.0
	11/2/2022	<0.495	31.7	<0.972	<0.972	<0.938	<0.972	25.0
	11/9/2022	<0.495	33.0	<0.972	<0.972	<0.938	<0.972	21.4
	11/16/2022	<0.495	28.2	<1.00	<1.00	<0.970	<1.00	18.0
	11/30/2022	<0.495	30.0	<0.915	<0.915	<0.883	<0.915	18.5
	12/9/2022	<0.495	19.5	<1.00	<1.00	<0.970	<1.00	17.1
	12/15/2022	<0.495	43.9	<0.918	<0.918	<0.886	<0.918	15.7
	12/21/2022	<0.495	37.8	<0.890	<0.890	<0.859	<0.890	15.8
	12/29/2022	<0.495	64.9	<0.938	<0.938	<0.905	<0.938	16.7
	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
	4/6/2023	<0.495	55.8	<0.920	<0.920	<0.888	<0.920	15.8
	4/14/2023	<0.495	44.1	<0.909	<0.909	<0.877	<0.909	18.8
	4/26/2023	<0.495	67.9	<0.981	<0.981	<0.947	<0.981	19.8
	5/2/2023	<0.495	86.9	<0.935	<0.935	<0.902	<0.935	18.2
	5/11/2023	<0.495	73.0	<0.912	<0.912	<0.880	<0.912	18.1
	5/15/2023	<0.495	116	<0.920	<0.920	<0.888	<0.920	16.4
	5/25/2023	<0.495	137	<0.935	<0.935	<0.902	<0.935	17.6
	5/30/2023	<0.495	693	<0.944	<0.944	<0.911	<0.944	18.4
6/9/2023	<0.495	165	<0.941	2.21 J	<0.908	2.21 J	19.1	
6/15/2023	<0.495	168	<0.935	<0.935	<0.902	<0.935	20.2	
6/23/2023	<0.495	75.4	<0.991	<0.991	<0.957	<0.991	20.2	
6/26/2023	<0.495	186	<0.920	<0.920	<0.888	<0.920	20.3	
7/5/2023	<0.0400	83.7	<1.03	<1.03	<0.993	<1.03	20.5	
7/13/2023	<0.0400	186	<0.965	<0.965	<0.932	<0.965	20.6	
7/17/2023	<0.0400	193	<1.02	<1.02	<0.980	<1.02	21.4	
7/27/2023	<0.0400	164	<0.929	<0.929	<0.897	<0.929	21.4	
7/31/2023	<0.0400	68.6	<1.17	<1.17	<1.13	<1.17	19.0	
8/9/2023	<0.0400	109	<0.967	<0.967	<0.934	<0.967	20.8	
8/14/2023	<0.0400	25.1	<1.01	<1.01	<0.974	<1.01	18.0	
8/23/2023	<0.0400	111	<0.887	<0.887	<0.856	<0.887	18.9	
8/28/2023	<0.0400	13.7	<1.01	<1.01	<0.973	<1.01	18.6	
9/7/2023	<0.0400	132	<0.923	<0.923	<0.891	<0.923	19.3	
9/13/2023	<0.0400	220	<0.887	<0.887	<0.856	<0.887	18.5	
9/22/2023	<0.0400	191	<0.895	<0.895	<0.864	<0.95	15.9	
9/25/2023	<0.0400	232	<0.605	<0.605	<0.584	<0.605	23.4	
10/2/2023	<0.0400	230	<0.906	<0.906	<0.875	<0.906	15.0	
10/9/2023	<0.0400	233	<0.882	<0.882	<0.851	<0.882	16.3	
10/17/2023	<0.0400	248	<0.988	<0.988	<0.954	<0.988	16.7	
10/23/2023	<0.0400	413	<0.926	<0.926	<0.894	<0.926	17.5	
10/31/2023	<0.0400	265	<0.929	<0.929	<0.897	<0.929	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	5/26/2020	<0.495	923	2.10	1.07 J	<0.900	6.16	23.1	
	6/30/2020	<5.00	1,290	<2.32	<2.32	<2.32	<2.32	22.1	
	8/20/2020	<5.00	1,150	2.75	3.29	<2.26	6.02	23.0	
	11/24/2020	<0.495	1,300	1.73 J	2.17 J	<0.835	3.900	19.1	
	12/18/2020	0.600 J	958	1.34 J	0.915 J	<0.824	2.26 J	15.1	
	12/23/2020	<0.495	1,090	1.61 J	1.12 J	<0.837	2.73	15.6	
	12/30/2020	<0.495	1,090	<0.893	<0.825	<0.825	<0.825	12.1	
	1/6/2021	<0.495	1,240	1.99 J	<0.824	<0.824	1.99 J	13.1	
	1/12/2021	11.2	1,450	1.64 J	<0.833	<0.833	1.64 J	13.9	
	1/20/2021	9.60	1,390	<0.907	<0.838	<0.838	<0.838	18.2	
	1/27/2021	15.0	1,600	1.31 J	<0.834	<0.834	1.31 J	13.4	
	2/3/2021	<0.495	1,030	0.955 J	1.15 J	<0.813	2.11 J	20.9	
	2/10/2021	<0.495	915	2.08	<0.746	<0.746	2.08	11.5	
	2/24/2021	<0.495	793	1.01 J	<0.832	<0.832	1.01 J	19.4	
	3/4/2021	<0.495	1,030	1.74 J	<0.819	<0.819	1.74 J	18.2	
	3/10/2021	<0.495	1,010	<0.893	<0.825	<0.825	<0.825	18.5	
	3/17/2021	<0.495	970	2.33	<0.835	<0.835	2.33	19.5	
	3/25/2021	<0.495	653	1.50 J	1.16 J	<0.857	2.66 J	20.2	
	3/31/2021	<0.495	1,110	<0.941	<0.941	<0.908	<0.941	18.3	
	4/8/2021	<0.495	1,010	2.30 J	1.01 J	<0.875	3.31 J	18.9	
	4/15/2021	<0.495	2,200	2.49 J	0.999 J	1.70 J	5.19	20.1	
	4/21/2021	<0.495	1,230	1.01 J	0.913 J	<0.856	1.92 J	18.9	
	4/28/2021	<0.495	1,100	2.54 J	1.19 J	<0.872	3.73 J	19.0	
	5/5/2021	<0.495	1,350	2.09 J	<0.890	<0.859	2.09 J	18.8	
	5/13/2021	<0.495	1,320	1.18 J	<0.906	<0.875	1.18 J	19.6	
	5/19/2021	<0.495	1,730	1.46 J	<0.901	<0.869	1.46 J	19.8	
	5/27/2021	<0.495	798	<0.920	<0.920	<0.888	<0.920	20.8	
	6/2/2021	<0.495	1,580	2.01 J	<0.895	<0.864	2.01 J	18.1	
	6/10/2021	<0.495	2,010	1.46 J	<0.882	<0.851	1.46 J	22.0	
	6/16/2021	<0.495	810	0.963 J	<0.826	<0.797	0.963 J	18.0	
	6/22/2021	<0.495	795	1.18 J	<0.947	<0.914	1.18 J	22.2	
	6/30/2021	<0.495	975	1.21 J	<0.893	<0.862	1.21 J	20.3	
	7/1/2021	Levey Well Now Running Full Time							
	7/7/2021	<0.495	889	1.62 J	<0.906	<0.875	1.62 J	18.3	
	7/14/2021	<0.495	1,080	<0.965	<0.965	<0.932	<0.965	19.3	
	7/20/2021	<0.495	1,170	1.16 J	<0.898	<0.867	1.16 J	19.8	
	7/27/2021	<0.495	950	1.03 J	<0.906	<0.875	1.03 J	22.3	
	8/5/2021	<0.495	778	<0.909	<0.909	<0.877	<0.909	22.1	
	8/11/2021	<0.495	1,040	1.46 J	<0.887	<0.856	1.46 J	19.7	
	8/19/2021	<0.495	2,010	1.93 J	<0.959	<0.926	1.93 J	20.7	
	8/25/2021	<0.495	1,400	1.01 J	<0.932	<0.900	1.01 J	19.2	
	9/2/2021	<0.495	1,830	3.03 J	2.11 J	<0.920	5.14	21.4	
	9/8/2021	<0.495	1,570	1.70 J	<0.932	<0.900	1.70 J	20.5	
	9/14/2021	<0.495	1,240	1.93 J	1.01 J	<0.917	2.94 J	19.4	
	9/21/2021	<0.495	1,260	1.33 J	<0.941	<0.908	1.33 J	18.0	
	9/29/2021	<0.495	1,040	1.60 J	<1.19	<1.15	1.60 J	18.5	
	10/7/2021	<0.495	1,020	1.45 J	<0.988	<0.954	1.45 J	18.0	
	10/13/2021	<0.495	834	1.56 J	<0.935	<0.902	1.56 J	20.6	
	10/21/2021	<0.495	2,420	1.64 J	<0.918	<0.886	1.64 J	19.8	
	11/5/2021	<0.495	628	1.39 J	<0.965	<0.932	1.39 J	22.8	
	11/11/2021	<0.495	4,500	2.27 J	<0.985	<0.950	2.27 J	18.5	
	11/18/2021	<0.495	574	2.56 J	<0.923	<0.891	2.56 J	19.5	
	11/24/2021	<5.00	1,500	2.34 J	<4.59	<4.59	2.34 J	19.1	
	12/1/2021	<0.495	313	1.69 J	<0.912	<0.880	1.69 J	19.2	
	12/8/2021	<0.495	1,260	1.86 J	<0.932	<0.900	1.86 J	18.9	
	12/16/2021	<0.495	957	1.15 J	<0.947	<0.914	1.15 J	18.0	
	12/22/2021	<0.495	1,020	1.95 J	<0.944	<0.911	1.95 J	21.6	
	12/29/2021	<0.495	1,250	1.15 J	<0.935	<0.902	1.15 J	18.0	
	1/6/2022	<0.495	1,030	1.31 J	<0.915	<0.883	1.31 J	18.2	
	1/12/2022	<0.495	1,450	3.63 J	1.34 J	<1.00	4.97 J	22.0	
1/19/2022	<0.495	1,420	2.83 J	<0.915	<0.883	2.83 J	18.2		
1/26/2022	<0.495	2,020	<0.923	<0.923	<0.891	<0.923	18.8		
2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.								
2/8/2022	<0.495	2,050	1.31 J	<0.909	<0.877	1.31 J	20.7		
2/16/2022	<0.495	1,670	0.974 J	<0.864	<0.834	0.974 J	18.3		
2/25/2022	<0.495	1,280	1.43 J	<0.965	<0.932	1.43 J	19.9		
3/3/2022	<0.495	2,160	1.86 J	<0.909	<0.877	1.86 J	18.1		
3/9/2022	<0.495	1,680	1.77 J	<0.947	<0.914	1.77 J	18.4		
3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.								
3/16/2022	<0.495	1,700	2.22 J	<0.915	<0.883	2.22 J	18.1		
3/24/2022	<0.495	1,330	1.29 J	<0.909	<0.877	1.29 J	19.1		
3/31/2022	<0.495	1,340	1.28 J	<0.938	<0.905	1.28 J	19.0		
4/6/2022	<0.495	1,720	1.00 J	<0.938	<0.905	1.00 J	18.1		
4/13/2022	<0.495	874	0.915 J	<0.906	<0.875	0.915 J	19.0		
4/20/2022	<0.495	1,060	1.06 J	<0.901	<0.869	1.06 J	18.6		
4/28/2022	<0.495	1,100	1.76 J	<0.915	<0.883	1.76 J	19.8		
5/5/2022	0.600 J	1,330	1.40 J	<0.920	<0.888	1.40 J	19.2		
5/10/2022	<0.495	1,320	1.63 J	<0.965	<0.932	1.63 J	16.8		
5/19/2022	<0.495	1,740	1.80 J	<0.915	<0.883	1.80 J	20.5		
5/26/2022	<0.495	2,650	1.02 J	<0.950	<0.917	1.02 J	18.1		



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	6/1/2022	<0.495	1,340	1.43 J	<0.909	<0.877	1.43 J	20.5
	6/9/2022	<0.495	1,080	1.23 J	<0.938	<0.905	1.23 J	19.8
	6/17/2022	<0.495	894	1.49 J	<0.895	<0.864	1.49 J	17.8
	6/23/2022	<0.495	1,270	1.25 J	<0.920	<0.888	1.25 J	18.0
	6/29/2022	<0.495	1,680	<0.935	<0.935	<0.902	<0.935	15.9
	7/7/2022	<0.495	1,190	0.912 J	<0.906	<0.875	0.912 J	23.0
	7/13/2022	<0.495	1,610	1.17 J	<0.947	<0.914	1.17 J	20.1
	7/20/2022	<0.495	1,360	1.07 J	<0.981	<0.947	1.07 J	19.8
	7/27/2022	<0.495	1,070	1.49 J	<0.975	<0.941	1.49 J	18.2
	8/4/2022	<0.495	1,570	1.31 J	<0.904	<0.872	1.31 J	19.2
	8/10/2022	<0.495	1,260	1.17 J	<0.932	<0.900	1.17 J	19.3
	8/18/2022	<0.495	1,280	1.43 J	7.62	<0.897	9.05	21.3
	8/24/2022	<5.00	1,300	1.18 J	<4.63	<4.63	1.18 J	18.0
	8/31/2022	1.00 J	1,290	1.08 J	<0.950	<0.917	1.08 J	20.0
	9/15/2022	<0.495	1,320	1.83 J	<1.07	<1.04	1.83 J	18.9
	9/22/2022	<0.495	1,320	1.56 J	<1.05	<1.01	1.56 J	20.9
	9/28/2022	<0.495	1,280	1.06 J	<1.05	<1.01	1.06 J	18.6
	10/4/2022	<0.495	1,670	1.11 J	<0.904	<0.872	1.11 J	17.6
	10/14/2022	<0.989	1,670	1.12 J	<0.915	<0.883	1.12 J	18.1
	10/19/2022	<0.495	814	1.46 J	<0.877	<0.846	1.46 J	18.3
	10/27/2022	<0.495	1,350	<0.988	<0.988	<0.954	<0.988	25.0
	11/2/2022	<0.495	1,680	1.82 J	<0.978	<0.944	1.82 J	25.0
	11/9/2022	<4.95	1,220	1.14 J	<0.978	<0.944	1.14 J	21.2
	11/16/2022	<0.495	653	2.20 J	<0.909	<0.877	2.20 J	18.0
	11/30/2022	<0.495	1,030	<0.959	<0.959	<0.926	<0.959	18.7
	12/9/2022	<0.495	1,030	1.38 J	<0.969	<0.935	1.38 J	17.3
	12/15/2022	<0.495	1,440	1.71 J	<0.988	<0.954	1.71 J	15.3
	12/21/2022	<0.495	1,280	1.11 J	<0.904	<0.872	1.11 J	16.3
	12/29/2022	<0.495	789	<0.923	<0.923	<0.891	<0.923	17.3
	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
	4/6/2023	<0.495	821	1.04 J	<0.988	<0.954	1.04 J	15.5
	4/14/2023	<0.495	438	1.22 J	<0.895	<0.864	1.22 J	18.8
	4/26/2023	<0.495	1,050	1.03 J	<0.935	<0.902	1.03 J	20.2
	5/2/2023	<0.495	1,310	1.19 J	<0.981	<0.947	1.19 J	18.5
	5/11/2023	<0.495	1,020	1.29 J	<0.909	<0.877	1.29 J	18.1
	5/15/2023	<0.495	1,210	<0.906	<0.906	<0.875	<0.906	16.3
	5/25/2023	<0.495	1,330	1.09 J	<0.947	<0.914	1.09 J	18.0
	5/30/2023	<0.495	267	<0.935	<0.935	<0.902	<0.935	18.3
6/9/2023	<0.495	1,050	1.82 J	12.8	2.28 J	16.9	18.6	
6/15/2023	<0.495	1,050	1.50 J	<0.904	<0.872	1.50 J	20.4	
6/23/2023	<0.495	62.6	1.47 J	<0.935	<0.902	1.47 J	21.0	
6/26/2023	<0.495	1,070	<0.929	<0.929	<0.897	<0.929	20.6	
7/5/2023	<0.0400	1,030	1.24 J	<0.972	<0.938	1.24 J	21.4	
7/13/2023	<0.0400	1,040	0.971 J	<0.956	<0.923	0.971 J	20.2	
7/17/2023	<0.0400	1,280	1.19 J	<0.991	<0.957	1.19 J	20.6	
7/27/2023	<0.0400	1,270	1.15 J	<0.898	<0.867	1.15 J	20.6	
7/31/2023	<0.0400	422	1.37 J	<1.15	<1.11	1.37 J	18.9	
8/9/2023	<0.0400	1,070	1.03 J	<0.985	<0.951	1.03 J	20.9	
8/14/2023	<0.0400	419	<0.971	<0.971	<0.937	<0.971	18.5	
8/23/2023	<0.0400	848	1.22 J	<0.893	<0.862	1.22 J	19.0	
8/28/2023	<0.0400	168	<1.02	<1.02	<0.983	<1.02	18.3	
9/7/2023	<0.0400	1,250	1.20 J	<0.975	<0.941	1.20 J	21.0	
9/13/2023	<0.0400	617	1.62 J	<0.898	<0.867	1.62 J	17.9	
9/22/2023	<0.0400	1,640	0.979 J	<0.938	<0.905	0.979 J	15.3	
9/25/2023	<0.0400	1,230	<0.877	<0.877	<0.846	<0.877	23.5	
10/2/2023	<0.0400	1,630	<0.898	<0.898	<0.867	<0.898	14.1	
10/9/2023	<0.0400	1,590	1.17 J	<0.885	0.854	1.17 J	14.5	
10/17/2023	<0.0400	1,670	1.48 J	<0.988	<0.954	1.48 J	15.8	
10/23/2023	<0.0400	2,070	1.19 J	<0.935	<0.902	1.19 J	17.9	
10/31/2023	<0.0400	1,080	0.957 J	<0.944	<0.911	0.957 J	18.2	

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

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY 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								17,500
	1/25/2021	1213	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	2.01	<0.810	<0.793	4.98	<0.867	<0.982	<1.12	<1.70	1.44	3.20	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.36	1.14	1.29	<0.704	<1.73	<0.867	<826	
	1/28/2021	1316	14,800	<0.639	2.96	246	22.5	42.5	1,770	<0.810	<0.793	2,410	53.8	298	<1.12	2.03	1,220	2,890	150	<0.694	101	2,340	53.2	<0.819	<33.0	438	<0.851	72.6	<0.590	95.7	<1.09	<1.07	445	375	<0.704	246	147	61,100	
	2/10/2021	1300	1,140	<12.8	<15.5	181	<8.26	<20.6	10,800	<16.2	<15.9	<23.8	44.2	426	<22.5	<19.8	4,040	14,000	92.4	<13.9	<102	79.0	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	66.3	<21.8	<21.4	334	584	<14.1	361	218	315,000	
	2/24/2021	1045	<2.97	<0.639	<0.776	161	<0.413	<1.03	4,510	<0.810	9.83	<1.19	88.4	491	<1.12	<0.989	2,200	5,610	249	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	5.47	<0.590	101	<1.09	1.14	218	305	<0.704	633	388	114,000	
	3/4/2021	1402	375	<3.19	<3.88	67.9	<2.07	<5.15	2,620	<4.05	<3.96	88.6	56.4	<4.91	<5.62	<4.95	847	4,690	176	<3.47	<25.6	72.0	<25.6	<4.09	22.8	<15.4	<4.25	<6.79	<2.95	49.3	<5.44	<5.36	1,460	913	<3.52	533	198	83,400	
	3/10/2021	1050	<2.97	<0.639	<0.776	71.0	<0.413	<1.03	3,300	<0.810	<0.793	<1.19	61.1	1,070	1.26	<0.989	990	4,120	205	<0.694	<5.11	54.8	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	55.4	<1.09	<1.07	947	825	<0.704	516	249	120,000	
	3/17/2021	1135	806	<0.639	<0.776	95.6	<0.413	<1.03	3,160	<0.810	<0.793	50.2	63.3	444	1.38	<0.989	1,240	4,550	128	<0.694	<5.11	139	<5.12	<0.819	<3.30	46.5	<0.851	<1.36	<0.590	101	<1.09	<1.07	332	313	<0.704	432	179	88,800	
	3/25/2021	1111	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	11,700	<0.810	<0.793	41.3	65.9	<0.982	<1.12	<0.989	2,500	12,800	157	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	67.4	<1.09	<1.07	424	359	<0.704	382	205	256,000	
	3/31/2021	1055	1,880	<0.639	<0.776	<0.622	<0.413	<1.03	22,300	<0.810	<0.793	96.3	78.0	185	<1.12	<0.982	4,420	24,000	150	<0.694	<5.11	244	<5.12	<0.819	<3.30	<3.07	<0.851	17.5	<0.590	73.1	9.57	<1.07	292	265	<0.704	352	193	305,000	
	4/8/2021	1205	2,350	843	<311	<249	<165	<412	30,500	<324	<317	2,830	<347	736	<450	<396	<327	64,500	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	1,470	<340	<543	<236	<753	<435	<429	453	420	<282	737	<347	574,000	
	4/15/2021	1228	1,200	<12.8	<15.5	97.7	<8.26	<20.6	41,000	<16.2	<15.9	98.0	91.9	447	<22.5	<19.8	4,950	98,000	134	<13.9	<102	206	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	101	<21.8	<21.4	197	198	<14.1	620	190	438,000	
	4/21/2021	1340	639	<0.639	<0.776	<0.622	<0.413	<1.03	2,390	<0.810	<0.793	234	72.4	309	<1.12	<0.989	969	5,710	166	<0.694	<5.11	280	<5.12	<0.819	<3.30	127	<0.851	<1.36	<0.590	48.2	<1.09	<1.07	216	447	<0.704	296	225	<826	
	4/28/2021	1215	1,210	<12.8	<15.5	134	<8.26	<20.6	6,650	<16.2	<15.9	343	129	1,540	<22.5	<19.8	<16.4	13,200	264	<13.9	<102	229	<102	<16.4	<66.0	143	<17.0	<27.2	<11.8	95.3	<21.8	<21.4	1,050	761	<14.1	954	313	261,000	
	5/5/2021	1235	371	<12.5	<15.5	12.6	<8.26	<20.6	844	<16.2	<15.9	326	27.2	88.3	<22.5	<19.8	326	1,120	58.0	<13.9	<102	93.8	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	179	142	<14.1	185	65.0	273,000	
	5/13/2021	1320	1,220	<12.8	<15.5	39.8	<8.26	<20.6	6,130	29.9	<15.9	456	88.4	545	<22.5	<19.8	2,300	7,300	228	<13.9	<102	226	<102	<16.4	<66.0	219	<17.0	<27.2	<11.8	62.5	<21.8	<21.4	1,230	756	<14.1	668	251	205,000	
	5/19/2021	1445	1,700	<1.28	<1.55	<1.24	<0.826	<2.06	6,680	<1.62	<1.59	226	76.7	306	<2.25	<1.98	2,010	12,300	179	<1.39	122	200	<10.2	<1.64	<6.60	205	<1.70	<2.72	<1.18	50.5	<2.18	3.46	520	550	<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	<1.12	<19.8	1,500	6,840	162	<13.9	<102	188	<102	<16.4	<66.0	125	<17.0	<27.2	<11.8	47.1	<21.8	<21.4	555	356	<14.1	542	174	179,000	
	6/10/2021	1150	3,470	<12.8	<15.5	106	<8.26	<20.6	2,260	<16.2	<15.9	722	21.6	169	<22.5	<19.8	507	3,020	48.1	<13.9	<102	295	<102	<16.4	<66.0	234	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	89.3	73.1	<14.1	127	49.4	95,800	
	6/16/2021	1217	2,160	<0.639	<0.776	43.0	<0.413	<1.03	806	<0.810	<0.793	609	17.9	145	<1.12	<0.989	308	1,670	32.2	<0.694	35.6	251	<5.12	<0.819	<3.30	201	<0.851	<1.36	<0.590	29.3	<1.09	<1.07	85.9	58.9	<0.704	88.9	34.4	32,400	
	6/22/2021	1240	1,190	<6.39	<7.76	<6.22	<4.13	<10.3	2,440	<8.10	<7.93	347	9.49	78.0	<11.2	<9.89	<8.18	7,510	20.4																				

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																						
Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/3/2022	0756	<297	<63.9	<77.6	<62.2	<41.3	<103	108,000	<81.0	<79.3	1,200	<86.7	<98.2	<112	<98.9	234,000	606,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	6,610	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,020,000
		0759	Initiate Vacuum Recovery Event																																			
		0823	<59.4	<12.8	<15.5	<12.4	407	<20.6	3,960	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	12,800	28,200	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	62.9	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	177,000
		0904	<14.9	<3.19	<3.88	<3.11	<2.07	<5.15	2,240	<4.05	<3.96	<11.8	<4.34	<4.91	<5.62	<4.95	6,130	17,800	<4.92	<3.47	<25.6	<18.4	<25.6	<4.09	<16.5	19.3	<4.25	<6.79	<2.95	<9.42	<5.44	<5.36	8.25	5.64	<3.52	<8.67	<4.34	101,000
		0920	Vacuum Recovery Event Terminated																																			
	1/6/2022	1031	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,580	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	5,690	15,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	87.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	22.7	<19.6	<14.1	<34.7	<17.3	188,000
		0000	<297	<63.9	<77.6	<62.2	<41.3	<103	10,600	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	20,500	130,000	<98.3	110	<511	<369	<512	<81.9	<330	4,230	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	508,000
	1/12/2022	1352	31,400	<12.8	<15.5	<12.4	<8.26	<20.6	164,000	<16.2	<15.9	<47.1	115	491	<22.5	<19.8	342,000	1,680,000	98.8	<13.9	<102	5,570	<102	<16.4	85.9	81,900	<17.0	<27.2	<11.8	263	<21.8	<21.4	400	433	<14.1	341	156	6,820,000
	1/17/2022	0852	14,900	<639	<776	<622	<413	<1,030	119,000	<810	<793	<2,360	<867	<982	<1,120	<989	160,000	1,440,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	25,800	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	6,110,000
		0853	Initiate Vacuum Recovery Event																																			
		0919	227	<0.639	<0.776	<0.622	<0.413	<1.03	3,650	<0.810	<0.793	19.8	2.15	1.70	1.52	1.84	6,260	19,100	1.22	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	202	<0.851	<1.36	<0.590	8.32	<1.09	<1.07	2.84	2.87	<0.704	5.20	2.15	132,000
		1004	90.3	<0.639	<0.776	<0.622	1.30	<1.03	747	<0.810	<0.793	56.2	2.58	4.13	1.40	2.60	1,610	4,300	2.46	<0.694	<5.11	16.4	<5.12	<0.819	<3.30	114	<0.851	2.69	<0.590	15.6	<1.09	<1.07	11.5	8.44	<0.704	7.50	3.13	31,600
		1021	Vacuum Recovery Event Terminated																																			
	1/19/2022	1134	466	<0.639	<0.776	<0.622	1.64	<1.03	2,400	<0.810	<0.793	16.8	5.42	9.67	1.38	2.14	4,620	10,800	5.26	<0.694	<5.11	54.3	<5.12	<0.819	3.42	494	<0.851	27.5	<0.590	23.8	<1.09	<1.07	20.8	18.7	<0.704	17.7	7.46	95,400
		1208	454	<31.9	<38.8	<31.1	<20.7	<51.5	11,300	<40.5	<39.6	149	<43.4	94.2	<56.2	<49.5	28,800	171,000	<49.2	<34.7	<256	<184	<256	966	<165	3,740	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	81.0	221	<35.2	<86.7	<43.4	508,000
	1/26/2022	1251	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	28,900	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	22,900	313,000	<22.5	<13.9	<102	<73.7	<102	<16.4	<66.0	248	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	1,180,000
	2/2/2022	0921	4,040	5,940	<155	<124	<82.6	<206	229,000	<162	<159	<471	195	<196	<225	<198	217,000	8,710,000	<197	<139	<1020	1,360	<1,020	<164	<660	10,800	<170	<272	<118	1,220	<218	<214	<196	<196	<141	481	<173	3,620,000
		0922	Initiate Vacuum Recovery Event																																			
		0950	337	415	<15.5	<12.4	<8.26	<20.6	16,700	<16.2	<15.9	<47.1	147	<19.6	<22.5	<19.8	36,200	114,000	<19.7	<13.9	<102	231	<102	<16.4	<66.0	88.2	<17.0	<27.2	<11.8	313	<21.8	<21.4	27.0	<19.6	<14.1	370	108	409,000
		1030	56.8	29.9	<0.776	<0.622	<0.413	<1.03	2,280	<0.810	<0.793	10.5	25.2	<0.982	<1.12	2.47	5,440	9,380	2.05	<0.694	<5.11	34.5	<5.12	<0.819	<3.30	30.2	<0.851	<1.36	<0.590	46.3	<1.09	<1.07	9.18	6.58	<0.704	62.9	17.6	71,500
		1047	Vacuum Recovery Event Terminated																																			
	2/8/2022	1158	80.8	29.7	<0.776	<0.622	<0.413	<1.03	2,750	<0.810	<0.793	4.13	19.1	<0.982	<1.12	2.58	5,850	8,670	1.82	<0.694	<5.11	36.9	<5.12	<0.819	<3.30	43.0	<0.851	<1.36	<0.590	38.8	<1.09	<1.07	7.80	5.35	<0.704	46.8	13.0	59,500
		1200	88.6	<0.639	<0.776	<0.622	<0.413	<1.03	1,310	<0.810	<0.793	<2.36	27.2	<0.982	<1.12	<0.989	2,640	13,700	14.5	<0.694	<5.11	15.5	<5.12	<0.819	3.64	76.2	<0.851	3.38	<0.590	12.3	<1.09	<1.07	43.8	46.5	<0.704	91.9	39.4	83,000
	2/16/2022	1224	215	<12.8	<15.5	<12.4	<8.26	<20.6	37,500	<16.2	<15.9	<47.1	<17.3	22.1	<22.5	<19.8	7,280	62,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	156	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	23.1	19.6	<14.1	38.4	<17.3	272,000
	2/23/2022	1021	1,950	<0.639	<0.776	<0.622	<0.413	<1.03	30,900	<0.810	<0.793	120	3.00	<0.982	<1.12	<0.989	5,360	176,000	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	73.8	<1.09	<1.07	1.84	1.47	<0.704	3.42	1.12	261,000
		1022	Initiate Vacuum Recovery Event																																			
		1043	104	101	<0.776	<0.622	1.44	<1.03	3,280	<0.810	<0.793	62.4	4.60	1.30	1.64	2.42	1,040	2,500	<0.983	<0.694	<5.11	34.2	<5.12	<0.819	<3.30	14.2	<0.851	<1.36	<0.590	57.6	<1.09	<1.07	3.47	3.29	<0.704	6.89	1.96	30,000
		1118	<29.7	25.9	<7.76	<6.22	<4.13	<10.3	737	<8.10	<7.93	42.2	<8.67	<9.82	<11.2	<9.89	290	610	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	20.3	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	8,510
		1134	Vacuum Recovery Event Terminated																																			
	2/25/2022	1241	<2.97	<0.639	<0.776	<0.622	1.40	<1.03	1,380	<0.810	<0.793	<2.36	<0.867	<0.982	1.58	1.76	272	1,290	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	7.61	<1.09	<1.07	<0.982	<0.982	<0.704	<1.73	<0.867	13,200
	2/28/2022	1145	250	<0.639	<0.776	21.2	0.413	<1.03	12,400	<0.810	<0.793	4.68	2.41	4.13	<1.12	<0.989	3,740	26,100	2.23	<0.694	<5.11	46.9	<5.12	<0.819	3.50	25.8	<0.851	<1.36	<0.590	9.12	<1.09	<1.07	7.85	6.23	<0.704	8.15	2.49	107,000
		1405	<149	<31.9	<38.8	<31.1	<20.7	<51.5	520	<40.5	<39.6	837	<43.4	<49.1	<56.2	<49.5	220	3,390	<49.2	47.6	<256	<184	<256	766	<165	8,480	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300
		1406	Initiate Vacuum Recovery Event																																			
		1510	<2.97	1.79	<0.776	<0.622	<0.413	<1.03	305	<0.810	<0.793	7.45	2.05	2.40	<1.12	2.13	182	511	1.12	<0.694	<5.11	10.6	<5.12	<0.819	<3.30	25.6	<0.851	<1.36	<0.590	3.74	<4.66	<1.07	4.96	4.91	<0.704	3.20	1.44	6,440
		1428	<149	<31.9	<38.8	<31.1	<20.7	<51.5	654	<40.5	<39.6	684	<43.4	<49.1	<56.2																							

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																							
Sample Designation	Date	Time	(ug/m3)																																				
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction	
Levey Well	5/5/2022	1454	<1,190	<256	<311	<249	<165	<412	30,500	<324	<317	<943	<347	<393	<450	<396	47,000	673,000	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	8,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	1,430,000	
	5/9/2022	0958	<1,190	<256	<311	<249	<165	<412	49,200	<324	<317	2,660	<347	<393	<450	<396	66,300	850,000	<393	<278	<2,040	3,480	<2,050	<328	<1,320	26,100	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,380,000	
		1000	Initiate Vacuum Recovery Event																																				
		1020	333	<0.639	<0.776	1.34	1.81	<1.03	995	<0.810	<0.793	42.4	4.07	17.1	<1.12	1.20	2,530	8,780	<0.983	<0.694	<5.11	203	<5.12	<0.819	5.09	76.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.9	20.8	<0.704	7.02	5.94	54,100	
		1057	90.8	<0.639	<0.776	<0.622	2.85	<1.03	159	<0.810	<0.793	13.3	<0.867	1.08	1.31	1.81	385	1,040	<0.983	<0.694	<5.11	33.6	<5.12	<0.819	<3.30	13.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	1.54	2.56	<0.704	<1.73	1.03	8,220	
		1105	Vacuum Recovery Event Terminated																																				
	5/19/2022	1218	130	1.41	6.83	31.0	15.5	<1.03	3,090	<0.810	<0.793	32.2	3.73	7.02	<1.12	<0.989	6,260	4,830	1.60	<0.694	<5.11	193	<5.12	<0.819	<3.30	403	<0.851	<1.36	<0.590	6.37	<1.09	<1.07	8.59	15.2	<0.704	5.64	5.03	124,000	
		1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	104,000	<64.8	<63.4	1,070	<69.4	<78.5	<89.9	<79.1	183,000	1,340,000	<78.7	105	<409	<295	<409	<65.5	<264	4,130	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	4,750,000	
	5/23/2022	1015	12,100	<51.1	<62.1	<49.8	<33.0	<82.5	558,000	<96.2	<63.4	<189	<69.4	633	<89.9	<79.1	912,000	8,140,000	<78.7	<55.6	<409	14,100	<409	<65.5	<264	7,740	<68.1	<109	<47.2	<151	<87.0	<85.7	376	854	<56.3	<139	<69.4	27,600,000	
		1017	Initiate Vacuum Recovery Event																																				
		1100	<238	<51.1	<62.1	<49.8	<33.0	<82.5	13,400	<64.8	<63.4	549	<69.4	158	<89.9	<79.1	70,800	263,000	<78.7	<55.6	<409	1,090	<409	<65.5	<264	7,450	<68.1	<109	<47.2	<151	<87.0	<85.7	86.9	215	<56.3	<139	<69.4	702,000	
		1200	927	<12.8	<15.5	<12.4	<10.6	<20.6	6,410	<16.2	<15.9	196	<17.3	185	<22.5	<19.8	15,200	50,400	<19.7	<13.9	<102	590	<102	<16.4	<66.0	263	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	121	271	<14.1	<34.7	<17.3	450,000	
		1215	Vacuum Recovery Event Terminated																																				
	5/26/2022	1355	4,350	<51.1	<62.1	<49.8	88.6	<82.5	16,300	<64.8	<63.4	562	<69.4	146	<89.9	<79.1	47,000	154,000	<78.7	<55.6	<409	1,580	<409	<65.5	<264	7,520	<68.1	<109	<47.2	<151	<87.0	<85.7	85.9	205	<56.3	<139	<64.4	785,000	
		1250	49,400	<1,280	<1,550	<1,240	<826	<2,060	196,000	<1,620	<1,590	12,900	<1,730	<1,960	<2,250	<1,980	336,000	28,000,000	<1,970	<1,390	<10,200	8,230	<10,200	<1,640	<6,600	161,000	<1,700	<2,720	<1,180	<3,770	<2,180	2,330	<1,960	<1,960	<1,410	<3,470	<1,730	8,260,000	
	6/1/2022	1405	8,290	<256	<311	<249	<165	<412	444,000	<324	<317	1,420	<347	<393	<450	<396	634,000	4,580,000	<393	<278	<2,040	6,100	<2,050	<328	<1,320	14,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	22,600,000	
	6/8/2022	1033	<23,800	<5,100	<6,210	<4,980	<3,300	<8,250	231,000	<6,480	<6,340	28,800	<6,940	<7,850	<8,990	<7,910	470,000	3,700,000	<7,870	<5,560	<40,900	<29,500	<40,900	18,600	<26,400	531,000	<6,810	<10,900	<4,720	<15,100	<8,700	<8,570	<7,850	<7,850	<5,630	<13,900	<6,940	15,900,000	
		1035	Initiate Vacuum Recovery Event																																				
		1058	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,340	<16.2	<15.9	60.9	30.8	56.4	<22.5	<19.8	13,300	32,900	<19.7	<13.9	<102	97.0	<102	<16.4	<66.0	166	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	70.7	135	<14.1	37.9	30.9	220,000	
		1138	<2.97	2.17	<0.776	9.65	1.80	<1.03	1,390	<0.810	<0.793	31.7	11.4	28.8	1.31	2.37	4,620	906	3.85	<0.694	<5.11	53.4	<5.12	<0.819	4.45	72.5	<0.851	1.89	<0.590	13.0	<1.09	3.89	36.2	60.4	<0.704	16.3	12.5	98,700	
		1153	Vacuum Recovery Event Terminated																																				
	6/9/2022	1300	<59.4	<12.8	17.5	30.3	45.4	<20.6	14,300	<16.2	<15.9	83.9	24.4	34.8	<22.5	<19.8	45,000	135,000	<19.7	<13.9	<102	985	<102	<16.4	<66.0	804	<17.0	<27.2	<11.8	40.7	<21.8	<21.4	43.2	83.9	<14.1	35.3	27.8	1,020,000	
		1333	<238	<51.1	<62.1	53.2	<33.0	<82.5	30,900	<64.8	<63.4	1,250	<69.4	<78.5	<89.9	<79.1	76,100	279,000	<78.7	87.5	<409	1,540	<409	<65.5	<264	12,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	223	<56.3	<139	79.3	1,220,000	
		6/12/2022	1315	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	5,960	<16.2	<15.9	790	<17.3	<19.6	<22.5	<19.8	7,930	108,000	<19.7	85.1	<102	563	<102	520	<66.0	11,700	<17.0	46.0	<11.8	64.8	<21.8	<21.4	<19.6	26.7	<14.1	<34.7	<17.3	271,000
		1015	<238	<51.1	<62.1	<49.8	<33.0	<82.5	189,000	<64.8	<63.4	<189	<69.4	242	<89.9	<79.1	319,000	3,240,000	<78.7	<55.6	<409	7,960	<409	<65.5	<264	12,700	<68.1	<109	<47.2	<151	<87.0	<85.7	124	314	<56.3	157	105	10,600,000	
	6/20/2022	1040	Initiate Vacuum Recovery Event																																				
		1148	137	<12.8	<15.5	<12.4	<8.26	<20.6	1,390	<16.2	<15.9	<47.1	<17.3	57.4	<22.5	<19.8	3,870	14,200	<19.7	<13.9	<102	130	<102	<16.4	<66.0	112	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	39.3	78.0	<14.1	<34.7	<17.3	92,900	
		1256	95.5	<0.639	<0.776	<0.622	<0.413	<1.03	475	<0.810	<0.793	19.0	<0.867	15.5	<1.12	2.19	1,060	2,440	<0.983	<0.694	<5.11	64.9	<5.12	<0.819	<3.30	47.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	23.1	36.5	<0.704	5.68	5.46	35,100	
		1257	Vacuum Recovery Event Terminated																																				
		1403	197	<0.639	<0.776	<0.622	<0.413	<1.03	1,050	<0.810	<0.793	18.6	<0.867	7.21	<1.12	<0.989	2,070	15,700	<0.983	<0.694	<5.11	102	<5.12	<0.819	<3.30	113	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	8.69	17.0	<0.704	3.90	3.65	88,000	
	6/23/2022	1305	14,000	<639	<776	<622	<413	<1,030	48,600	<810	<793	3,260	<867	<982	<1,120	<989	107,000	702,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	48,700	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	2,210,000	
	6/29/2022	1255	27,300	<51.1	<62.1	161	<33.0	<82.5	339,000	<64.8	<63.4	1,690	<69.4	314	<89.9	<79.1	450,000	3,320,000	<78.7	<55.6	<409	19,000	<409	<65.5	<264	13,600	<68.1	<109	<47.2	<151	<87.0	<85.7	149	453	<56.3	<139	<69.4	19,600,000	
	7/7/2022	1340	15,500	<1,190	<311	<249	<165	<412	166,000	<324	<317	3,190	<347	<393	<450	<396	303,000	2,470,000	<393	<278	<2,040	12,200	<2,050	<328	<1,320	14,500	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	6,650,000	
	7/13/2022	1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	<55.1	<64.8	<63.4	<189	<69.4	258	<89.9	<79.1	781,000	6,030,000	<78.7	<55.6	<409	28,100	<409	<65.5	<264	6,640	<68.1	<109	<47.2	<151	<87.0	<85.7	266	623	<56.3	<139	251	24,500,000	
	7/18/2022	1135	22,000	<256	<311	<249	<165	<412	995,000	<324	<317	<943	<347	479	<450	<396	1,020,000	12,300,000	<393	<278	<2,040	19,200	<2,050	<328	<1,320	13,900	<340	<543	<236	<753	<435	<429	<393	667	<282	<694	<347	46,700,000	
		1224</																																					

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																						
Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	8/18/2022	1231	<238	<51.1	<62.1	246	<33.0	<82.5	146,000	<64.8	<63.4	769	<69.4	<78.5	<89.9	<79.1	295,000	1,370,000	<78.7	63.9	<409	6,250	<409	<65.5	<264	15,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	148	<56.3	<139	95.4	7,520,000
	8/24/2022	1147	<297	<63.9	<77.6	<62.2	<41.3	<103	585,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	1,050,000	8,950,000	<98.3	<69.4	<511	13,900	<512	<81.9	<330	13,500	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	40,800,000
	8/31/2022	1247	132,000	<256	<311	<249	<165	<412	71,300	<324	<317	1,430	<347	<393	<450	<396	112,000	959,000	<393	<278	<2,040	3,660	5,530	<328	<1,320	16,500	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,480,000
	9/8/2022	1247	57,500	<1,280	<1,550	<1,240	<826	<2,060	403,000	<1,620	<1,590	5,640	<1,730	<1,960	<2,250	<1,980	646,000	6,030,000	<1,970	<1,390	<10,200	46,600	<10,200	<1,640	<6,600	30,200	<1,700	<2,720	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	49,700	<3,470	<1,730	19,800,000
	9/15/2022	1342	<149	<31.9	<38.8	47.0	<20.7	<51.5	29,100	<40.5	<39.6	1,330	<43.4	<49.1	<56.2	<49.5	59,700	353,000	<49.2	77.8	<256	1,350	<256	<40.9	<165	6,070	<42.5	80.1	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	830,000
	9/22/2022	1337	151,000	<2,560	<3,110	<2,490	<1,650	<4,120	554,000	<3,240	<3,170	288,000	3,590	<3,930	<4,500	<3,960	573,000	35,200,000	<3,930	<2,780	<20,400	57,200	<20,500	7,700	<13,200	6,930,000	4,110	33,800	<2,360	17,100	<4,350	<4,290	6,090	<3,930	<2,820	14,000	6,680	27,700,000
	9/26/2022	1046	39,900	<639	<776	<622	<413	<1,030	641,000	<810	<793	5,710	<867	<982	<1,120	<989	1,060,000	9,450,000	<983	<694	<5,110	20,100	<5,120	<819	<3,300	38,100	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	19,600,000
		1255	Initiate Vacuum Recovery Event																																			
		1403	337	<12.8	<15.5	<12.4	<8.26	<20.6	4,170	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	4,830	33,700	<19.7	<13.9	<102	292	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	189,000
		1512	116	<12.8	<15.5	<12.4	<8.26	<20.6	830	<16.2	<15.9	68.1	<17.3	<19.6	<22.5	<19.8	986	4,120	<19.7	<13.9	<102	104	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	39,100
		1512	Vacuum Recovery Event Terminated																																			
		1609	297	<12.8	<15.5	<12.4	<8.26	<20.6	2,100	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	2,380	12,700	<19.7	<13.9	<102	330	<102	<16.4	<66.0	109	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	23.7	<14.1	<34.7	<17.3	88,400
		1215	14,200	<63.9	<77.6	136	<41.3	<103	118,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	241,000	1,110,000	<98.3	<69.4	<511	6,840	<512	<81.9	<330	6,660	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,790,000
	10/4/2022	1327	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	499,000	<8,100	<7,930	766,000	<8,670	<9,820	<11,200	<9,890	908,000	6,490,000	<9,830	<6,940	<51,100	66,900	<51,200	188,000	<33,000	3,440,000	<8,510	27,500	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	32,000,000
	10/10/2022	1226	15,900	<128	<155	128	<82.6	<206	413,000	<162	<159	2,070	<173	<196	<225	<198	658,000	7,760,000	<197	<139	<1,020	11,900	<1,020	<164	<660	9,510	<170	<272	<118	<377	<218	1,390	<196	206	<141	<347	<173	24,600,000
		1230	Initiate Vacuum Recovery Event																																			
		1326	71.1	1.52	<0.776	0.741	9.21	<1.03	1,400	<0.810	<0.793	14.8	<0.867	3.48	<1.12	1.36	3,850	14,900	<0.983	0.913	<5.11	109	<5.12	<0.819	<3.30	8.50	<0.851	<1.36	<0.590	3.08	<1.09	<1.07	5.79	8.05	<0.704	4.94	2.65	124,000
		1438	94.8	0.923	<0.776	0.672	2.58	<1.03	1,280	<0.810	<0.793	16.3	<0.867	2.65	<1.12	1.63	3,040	13,400	<0.983	0.934	<5.11	92.0	<5.12	<0.819	<3.30	120	<0.851	<1.36	<0.590	1.96	<1.09	<1.07	2.68	6.43	<0.704	<0.867	1.82	104,000
		1438	Vacuum Recovery Event Terminated																																			
		1538	<2.97	4.12	<0.776	15.5	16.6	<1.03	14,500	<0.810	<0.793	120	<0.867	23.3	<1.12	<0.989	34,700	122,000	<0.983	<0.694	<5.11	263	<5.12	<0.819	<3.30	49.2	<0.851	<1.36	<0.590	9.15	<1.09	<1.07	19.6	56.0	<0.704	12.7	17.6	698,000
	10/14/2022	1136	21,900	<128	<155	181	<82.6	<206	121,000	<162	<159	2,000	<173	<196	<225	<198	193,000	2,850,000	<197	<139	<1,020	8,880	<1,020	<164	<660	6,490	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	3,990,000
	10/19/2022	1350	10,600	<63.9	<77.6	<62.2	<41.3	<103	382,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	769,000	6,280,000	<98.3	<69.4	<511	9,170	<512	<81.9	<330	6,190	<85.1	760	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	22,600,000
	10/24/2022	1100	13,700	<63.9	<77.6	<62.2	<41.3	<103	88,200	<81.0	<79.3	6,200	211	339	<112	<98.9	174,000	1,030,000	<98.3	<69.4	<511	6,900	<512	<81.9	<330	12,300	<170	<136	<59.0	1,020	<109	<107	312	226	<70.4	806	273	<4,130,000
		1100	Initiate Vacuum Recovery Event																																			
		1208	<59.4	15.4	<15.5	<12.4	<8.26	<20.6	<13.8	<16.2	<15.9	207	22.1	<19.6	<22.5	<19.8	22.2	62.8	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	96.8	<21.8	<21.4	<19.6	<19.6	<14.1	43.3	17.4	<16,500
		1308	97.4	<0.639	<0.776	4.45	2.07	<1.03	149	<0.810	<0.793	57.9	1.21	<0.982	<1.12	2.45	442	1,290	<0.983	<0.694	<5.11	61.3	<5.12	<0.819	<3.30	31.0	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	2.36	5.45	<0.704	3.86	1.53	9,670
		1308	Vacuum Recovery Event Terminated																																			
		1408	335	<0.639	<0.776	<622	<413	<1.03	2,270	<0.810	<0.793	<2.36	<0.867	<0.982	<1.12	<0.989	3,730	18,400	<0.983	<0.694	<5.11	234	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	2.62	5.60	<0.704	4.55	2.10	74,400
	10/27/2022	1337	7,680	<639	<776	<622	<413	<1,030	33,300	<810	<793	4,530	<867	<982	<1,120	<989	49,100	348,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	17,900	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	1,670,000
	11/2/2022	1339	<5,940	<1,280	<1,550	<1,240	<826	<2,060	64,400	<1,620	<1,590	6,340	<1,730	<1,960	<2,250	<1,980	130,000	702,000	<1,970	<1,390	<10,200	11,500	<10,200	<1,640	<6,600	30,000	<1,700	<2,720	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	<1,410	<3,470	<1,730	4,040,000
	11/7/2022	1115	<297	<66.9	<77.6	<62.2	<41.3	<103	209,000	<81.0	<79.3	<236	<86																									

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	1/23/2023	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	
	2/2/2023	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	
		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																																				
	2/8/2023	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	
		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																																				
	2/22/2023	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	
		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	<107	<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	18,300	1,670,000	
		1020	Initiate Vacuum Recovery Event																																				
		1127	1,050	3,100	<77.6	<62.2	<41.3	<103	12,800	<81.0	<79.3	1,440	74,600	13,700	<112	<98.9	213,000	7,620	7,960	<69.4	<511	<369	<512	<81.9	<330	7,300	<85.1	<136	<59.0	141,000	<109	<107	6,230	2,420	<70.4	49,900	21,400	4,750,000	
		1233	2,020	6,260	<77.6	1,810	<41.3	<103	25,900	<81.0	<79.3	1,840	68,900	28,300	<112	<98.9	56,400	16,600	16,400	<69.4	<511	375	<512	<81.9	<330	4,400	<85.1	<136	<59.0	63,300	<109	<107	13,300	5,250	<70.4	46,400	43,400	2,890,000	
		1233	Vacuum Recovery Event Terminated																																				
	3/8/2023	1333	2,300	<63.9	<77.6	<62.2	<41.3	<103	32,900	<81.0	<79.3	1,650	1,340	291	<112	<98.9	<81.8	26,900	202	<69.4	<511	702	<512	<81.9	<330	5,970	<85.1	<136	<59.0	<188	<109	<107	163	<98.2	<70.4	1,080	406	1,310,000	
	3/15/2023	1313	2,000	4,760	<77.6	5,100	<41.3	<103	28,400	<81.0	<79.3	1,450	39,000	<98.2	<112	<98.9	34,200	48,300	3,650	<69.4	<511	436	<512	<81.9	<330	2,060	<85.1	<136	<59.0	44,400	<109	<107	1,990	839	<70.4	27,100	10,800	1,660,000	
	Levey Well	3/15/2023	1100	<297	859	<77.6	1,400	<41.3	<103	25,200	<81.0	<79.3	1,510	23,900	1,330	<112	<98.9	21,600	41,200	3,060	116	<511	<369	<512	1,060	<330	3,690	<85.1	<136	<59.0	21,700	<109	<107	1,920	849	<70.4	17,500	7,720	946,000
		1023	1,550	319	<77.6	632	<41.3	<103	12,600	<81.0	<79.3	2,390	10,500	366	<112	<98.9	11,500	58,200	1,060	<69.4	<511	<369	<512	<81.9	<330	4,550	<85.1	<136	<59.0	10,100	<109	<107	362	190	<70.4	6,500	2,640	690,000	
		1024	Initiate Vacuum Recovery Event																																				
		3/20/2023	1132	2,730	119	<77.6	<62.2	<41.3	<103	3,820	<81.0	<79.3	3,750	2,150	<98.2	<112	<98.9	3,430	12,900	236	<69.4	<511	<369	<512	<81.9	<330	5,160	<85.1	<136	<59.0	2,540	<109	<107	124	<98.2	<70.4	1,530	555	184,000
		1240	1,550	<63.9	<77.6	<62.2	<41.3	<103	613	<81.0	<79.3	7,860	707	<98.2	<112	<98.9	589	2,860	160	365	<511	<369	<512	<81.9	<330	3,150	<85.												

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-Dichloroethane	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	6/26/2023	0850	<2.97	2.56	<0.776	19.8	<413	<1.03	3,750	<0.810	<0.793	392	22.6	9.77	<1.12	<0.989	4,830	39,100	6.10	<0.694	<5.11	149	<5.12	<0.819	<3.30	24.8	<0.851	34.1	<0.590	17.9	<1.09	<1.07	18.8	12.2	<0.704	41.6	30.1	146,000
		0851	Initiate Vacuum Recovery Event																																			
		1003	<2.97	3.80	<0.776	22.8	<413	<1.03	365	<0.810	<0.793	145	7.20	4.36	1.31	2.68	528	3,090	2.00	1.89	<5.11	36.3	<5.12	<0.819	<3.30	40.8	1.06	21.9	<0.590	12.4	<1.09	<1.07	10.9	6.23	<0.704	12.6	9.97	16,900
		1108	<2.97	2.35	<0.776	16.7	4.21	<1.03	319	<0.810	<0.793	77.9	8.06	7.26	1.36	2.61	375	2,520	2.87	<0.694	<5.11	37.2	<5.12	<0.819	<3.30	26.1	1.27	30.6	<0.590	5.57	<1.09	<1.07	25.1	10.6	<0.704	15.9	13.2	15,900
		1108	Vacuum Recovery Event Terminated																																			
	1208	<2.97	2.25	1.33	68.8	8.90	<1.03	1,030	<0.810	<0.793	200	9.93	6.18	1.19	2.49	1,420	8,570	2.77	1.69	<5.11	109	<5.12	<0.819	<3.30	150	1.27	27.7	<0.590	16.1	<1.09	<1.07	19.8	9.13	<0.704	16.2	12.4	41,700	
	7/7/2023	1305	<297	<63.9	<77.6	212	<41.3	<103	59,200	90.7	<79.3	<471	238	<98.2	<112	<98.9	50,700	561,000	<98.3	88.9	<511	<369	<512	<1.640	<330	10,500	<85.1	<136	<59.0	242	<109	<107	149	108	<70.4	507	304	1,070,000
	7/13/2023	1438	<1,190	<639	<311	<249	<165	<1,030	4,750	<810	<317	5,450	<867	<982	<450	<396	3,110	72,300	<983	<278	<5,110	<1,470	<5,120	<819	<3,300	20,600	<851	<1,360	<236	<1,880	<435	<1,070	<982	<982	<282	<1,730	<867	<330,000
	7/17/2023	1013	8,410	<128	<155	<124	<82.6	<206	153,000	<162	<159	2,110	335	288	<225	<198	190,000	2,780,000	<197	<139	<1,020	3,240	<1,020	<164	<660	24,600	<170	<272	<118	<377	<218	<214	<196	<196	<141	694	405	6,730,000
	7/27/2023	0928	<59.4	23.6	<15.5	3,950	293	<20.6	7,270	<16.2	<15.9	354	245	29.0	<22.5	<19.8	8,060	54,600	36.5	<13.9	<102	1,390	<102	<16.4	<66.0	3,220	<17.0	<27.2	<11.8	207	<21.8	<21.4	42.7	26.6	<14.1	216	126	178,000
	7/31/2023	0930	<29,700	<6,390	<7,760	8,780	<4,130	<10,300	7,230	<8,100	<7,930	<47,100	<8,670	<9,820	<11,200	<9,890	<8,180	85,000	<9,830	<6,940	<51,100	<36,900	<51,200	<8,190	<33,000	137,000	<8,510	<13,600	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	<8,260,000
	8/9/2023	0944	46,600	<63.9	<77.6	458	<41.3	<103	68,900	<81.0	<79.3	1,590	145	<98.2	<112	<98.9	32,400	427,000	<98.3	194	<511	<369	<512	<81.9	<330	7,820	<85.1	179	<59.0	226	<109	<107	138	105	<70.4	415	298	867,000
	8/14/2023	0852	6,890	<63.9	<77.6	420	<41.3	<103	27,900	<81.0	<79.3	1,920	103	<98.2	<112	<98.9	20,100	260,000	<98.3	<69.4	<511	2,920	<512	<81.9	<330	8,230	<85.1	<136	<59.0	189	<109	<107	321	182	<70.4	427	242	711,000
		0853	Initiate Vacuum Recovery Event																																			
		0959	<297	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	2,220	87.6	<98.2	<112	<98.9	421	2,920	<98.3	160	<511	<369	<512	<81.9	<330	7,520	<85.1	<136	<59.0	234	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1114	<297	85.3	<77.6	<62.2	<41.3	<103	520	<81.0	<79.3	2,090	90.2	<98.2	<112	<98.9	379	5,180	<98.3	171	<511	<369	<512	<81.9	<330	14,700	<85.1	<136	<59.0	199	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1114	Vacuum Recovery Event Terminated																																			
	8/23/2023	1213	4,920	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	6,660	<86.7	<98.2	<112	<98.9	182	2,740	<98.3	892	<511	<369	<512	<81.9	<330	17,900	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
	8/23/2023	1223	<594	<128	<155	236	<82.6	<20.6	39,900	<162	<159	1,530	163	458	<225	<198	17,400	76,200	<19.7	<139	<1,020	<737	<1,020	<164	<66.0	1,020	<17.0	<27.2	<118	<377	<218	<214	268	199	<141	499	366	657,000
	8/28/2023	0917	<2.97	0.795	<0.776	<0.622	<0.413	<1.03	19.0	<0.810	<0.793	1,270	<0.867	<0.982	<1.12	1.73	10.4	49.7	<0.983	<0.694	<5.11	4.60	<5.12	<0.819	<3.30	89.0	<0.851	<1.36	<0.590	9.30	<1.09	<1.07	<0.982	<0.982	<0.704	<1.73	<0.867	<826
		0918	Initiate Vacuum Recovery Event																																			
		1018	361	1.73	<0.776	2.62	2.77	<1.03	135	<0.810	<0.793	16.3	2.43	<0.982	2.21	<0.989	37.2	125	<0.983	<0.694	<5.11	31.8	<5.12	<0.819	<3.30	8.53	<0.851	<1.36	<0.590	5.61	<1.09	<1.07	<0.982	1.12	<0.704	3.74	2.32	3,150
		1130	404	62.0	<0.776	12.3	3.08	<1.03	126	<0.810	<0.793	67.1	25.7	1.08	1.63	1.67	144	169	1.65	<0.694	<5.11	71.4	<5.12	<0.819	<3.30	18.3	<0.851	<1.36	2.16	86.6	<1.09	<1.07	2.74	1.28	<0.704	14.3	6.07	2,710
		1130	Vacuum Recovery Event Terminated																																			
	9/11/2023	1230	855	7.79	<0.776	50.4	2.97	<1.03	185	<0.810	<0.793	80.5	7.93	<0.982	<1.12	1.74	70.8	245	<0.983	<0.694	<5.11	91.1	<5.12	<0.819	<3.30	34.7	<0.851	<1.36	<0.590	16.6	<1.09	<1.07	2.31	1.07	<0.704	5.81	3.10	3,440
		0909	2,160	<63.9	<77.6	290	<41.3	<103	61,300	<81.0	<79.3	1,610	162	250	<112	<98.9	<81.8	149,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	654	<85.1	<136	<59.0	<188	<109	<107	204	149	<70.4	646	180	711,000
		0910	Initiate Vacuum Recovery Event																																			
		1259	632	<63.9	<77.6	<62.2	<41.3	<103	1,260	<81.0	<79.3	1,600	<86.7	137	<112	<98.9	<81.8	2,400	<98.3	<69.4	<511	<369	<512	<81.9	<330	551	<85.1	<136	<59.0	<188	<109	<107	118	<98.2	<70.4	285	<86.7	<82,600
		1357	39.9	0.824	<0.776	4.92	2.25	<1.03	86.4	<0.810	<0.793	80.5	0.893	<0.982	1.49	1.71	<0.818	74.0	<0.983	3.99	<5.11	5.16	<5.12	<0.819	<3.30	18.0	<0.851	2.82	<0.590	4.52	<1.09	<1.07	1.84	1.22	<0.704	2.63	1.41	1,950
	9/25/2023	1357	Vacuum Recovery Event Terminated																																			
		1457	49.9	<0.639	<0.776	14.9	2.52	<1.03	210	<0.810	<0.793	50.7	1.57	<0.982	1.33	1.70	39.4	210	<0.983	<0.694	<5.11	10.0	<5.12	<0.819	<3.30	24.5	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.2	6.09	<0.704	5.07	3.81	4,500
		0940	2,520	<63.9	<77.6	542	<41.3	<103	99,220	<81.0	<79.3	2,900	<86.7	<98.2	<112	<98.9	<81.8	215,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	2,480	<85.1	<136	<59.0	<188	<109	<1.07	136	103	<70.4	314	211	1,900,000
		0941	Initiate Vacuum Recovery Event																																			
		1057	1,340	<63.9	<77.6	<62.2	<41.3	<103	2,020	<81.0	<79.3	3,040	93.6	<98.2	<112	<98.9	1,470	2,780	<98.3	165	<511	<369	<512	<81.9	<330	2,080	<85.1	187	<59.0	576	<109	<107	<98.2	<98.2	<70.4	397	122	<82,600
	10/2/2023	1206	1,240	<63.9	<77.6	<62.2	<41.3	<103	358	<81.0	<79.3	3,580	<86.7	<98.2	<112	<98.9	298	483	<98.3	176	<511	<369	<512	<81.9	<330	2,170	<85.1	181	<59.0	295	<109	<107	<98.2	<98.2	<70.4	249	93.6	<82,600
		1206	Vacuum Recovery Event Terminated																																			
		1307	1,490	<63.9	<77.6	<62.2	<41.3	<103	1,070	<81.0	<79.3	2,790	<86.7	<98.2	<112	<98.9	<81.8	1,500	<98.3	174	<511	<369	<512	1,760	<330	1,600	<85.1	171	<59.0	196	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1220	<297	<63.9	<77.6	<62.2	<41.3	<103	105,000	<81.0	<79.3	2,580	114	<98.2	<112	<98.9	11,100	111,000	<98.3	246	<511	<369	<512	<81.9	<330	<307	<85.1	405	<59.0	266	<109	605	123	118	<70.4	516	422	1,010,000
		0800	<2																																			



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/6/2023 2:33:53 PM

JOB DESCRIPTION

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

JOB NUMBER

880-33913-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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10/6/2023 2:33:53 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: 880-33913-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-33913-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

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

Job ID: 880-33913-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-33913-1
SDG: Hobbs NM

Job ID: 880-33913-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-33913-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 10/2/2023 3:43 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 860-124594 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS/LCSD) recovery is 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 860-124885 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-124633 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis: Levey Well (880-33913-1).

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 860-124791 and analytical batch 860-124952 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: 880-33913-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-33913-1

Date Collected: 10/02/23 10:35

Matrix: Water

Date Received: 10/02/23 15:43

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00460		0.00100	0.000460 mg/L			10/04/23 00:38	1
Bromobenzene	<0.000486 U		0.00100	0.000486 mg/L			10/04/23 00:38	1
Bromochloromethane	<0.000577 U		0.00100	0.000577 mg/L			10/04/23 00:38	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			10/04/23 00:38	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			10/04/23 00:38	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			10/04/23 00:38	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			10/04/23 00:38	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			10/04/23 00:38	1
Chlorobenzene	<0.000455 U		0.00100	0.000455 mg/L			10/04/23 00:38	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			10/04/23 00:38	1
Chloroform	<0.000464 U		0.00100	0.000464 mg/L			10/04/23 00:38	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			10/04/23 00:38	1
2-Chlorotoluene	<0.000459 U		0.00200	0.000459 mg/L			10/04/23 00:38	1
4-Chlorotoluene	<0.000386 U		0.00100	0.000386 mg/L			10/04/23 00:38	1
cis-1,2-Dichloroethene	<0.000457 U		0.00100	0.000457 mg/L			10/04/23 00:38	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			10/04/23 00:38	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			10/04/23 00:38	1
1,2-Dibromo-3-Chloropropane	<0.000671 U		0.00500	0.000671 mg/L			10/04/23 00:38	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			10/04/23 00:38	1
1,2-Dichlorobenzene	<0.000429 U		0.00100	0.000429 mg/L			10/04/23 00:38	1
1,3-Dichlorobenzene	<0.000413 U		0.00100	0.000413 mg/L			10/04/23 00:38	1
1,4-Dichlorobenzene	<0.000449 U		0.00100	0.000449 mg/L			10/04/23 00:38	1
Dichlorodifluoromethane	<0.000785 U		0.00100	0.000785 mg/L			10/04/23 00:38	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			10/04/23 00:38	1
1,2-Dichloroethane	<0.000372 U		0.00100	0.000372 mg/L			10/04/23 00:38	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			10/04/23 00:38	1
1,2-Dichloropropane	<0.000556 U		0.00500	0.000556 mg/L			10/04/23 00:38	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			10/04/23 00:38	1
2,2-Dichloropropane	<0.000679 U		0.00500	0.000679 mg/L			10/04/23 00:38	1
1,1-Dichloropropene	<0.000624 U		0.00500	0.000624 mg/L			10/04/23 00:38	1
Ethylbenzene	0.0161		0.00100	0.000385 mg/L			10/04/23 00:38	1
Hexachlorobutadiene	<0.000627 U		0.00500	0.000627 mg/L			10/04/23 00:38	1
Isopropylbenzene	0.00766		0.00100	0.000592 mg/L			10/04/23 00:38	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			10/04/23 00:38	1
m,p-Xylenes	0.0659		0.0100	0.00124 mg/L			10/04/23 00:38	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			10/04/23 00:38	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			10/04/23 00:38	1
n-Butylbenzene	<0.000510 U		0.00100	0.000510 mg/L			10/04/23 00:38	1
N-Propylbenzene	0.00379		0.00100	0.000429 mg/L			10/04/23 00:38	1
o-Xylene	0.0109		0.00100	0.000502 mg/L			10/04/23 00:38	1
p-Cymene (p-Isopropyltoluene)	0.000884 J		0.00100	0.000676 mg/L			10/04/23 00:38	1
sec-Butylbenzene	<0.000468 U		0.00100	0.000468 mg/L			10/04/23 00:38	1
Styrene	<0.000619 U		0.00100	0.000619 mg/L			10/04/23 00:38	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			10/04/23 00:38	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			10/04/23 00:38	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			10/04/23 00:38	1
Tetrachloroethene	<0.000655 U		0.00100	0.000655 mg/L			10/04/23 00:38	1
Toluene	0.0324		0.00100	0.000475 mg/L			10/04/23 00:38	1
trans-1,2-Dichloroethene	<0.000368 U		0.00100	0.000368 mg/L			10/04/23 00:38	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 10/02/23 10:35
Date Received: 10/02/23 15:43

Lab Sample ID: 880-33913-1
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			10/04/23 00:38	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			10/04/23 00:38	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			10/04/23 00:38	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			10/04/23 00:38	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			10/04/23 00:38	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			10/04/23 00:38	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			10/04/23 00:38	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			10/04/23 00:38	1
1,2,4-Trimethylbenzene	0.0166		0.00100	0.000417	mg/L			10/04/23 00:38	1
1,3,5-Trimethylbenzene	0.00484		0.00100	0.000411	mg/L			10/04/23 00:38	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			10/04/23 00:38	1
Xylenes, Total	0.0768		0.0100	0.00124	mg/L			10/04/23 00:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124					10/04/23 00:38	1
Dibromofluoromethane (Surr)	103		75 - 131					10/04/23 00:38	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144					10/04/23 00:38	1
Toluene-d8 (Surr)	107		80 - 120					10/04/23 00:38	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711	mg/L			10/03/23 23:22	1
Nitrate as N	0.0415	J H	0.100	0.0391	mg/L			10/05/23 07:10	1
Chloride	223		0.500	0.250	mg/L			10/05/23 07:10	1
Nitrite as N	<0.0293	U F1	0.100	0.0293	mg/L			10/03/23 23:22	1
Fluoride	0.651		0.500	0.100	mg/L			10/03/23 23:22	1
Sulfate	52.6		0.500	0.200	mg/L			10/05/23 07:10	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	209		10.0	5.76	mg/L		10/04/23 11:00	10/04/23 22:35	50
Magnesium	41.7		0.200	0.0428	mg/L		10/04/23 11:00	10/04/23 22:02	1
Potassium	3.39		0.500	0.0914	mg/L		10/04/23 11:00	10/04/23 22:02	1
Sodium	67.7		0.500	0.152	mg/L		10/04/23 11:00	10/04/23 22:02	1
SiO2	54.4		1.07	0.471	mg/L		10/04/23 11:00	10/04/23 22:02	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-13.6				%			10/03/23 08:15	1
Alkalinity (SM 2320B)	650		4.00	4.00	mg/L			10/03/23 17:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	650		4.00	4.00	mg/L			10/03/23 17:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/03/23 17:49	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/03/23 17:49	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/03/23 17:49	1
Total Dissolved Solids (SM 2540C)	1450		10.0	10.0	mg/L			10/04/23 09:17	1
pH (SM 4500 H+ B)	6.5	HF			SU			10/04/23 15:09	1
Temperature (SM 4500 H+ B)	14.2	HF			Degrees C			10/04/23 15:09	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-33913-1
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 (80-120)
880-33913-1	Levey Well	103	103	100	107
LCS 860-124594/3	Lab Control Sample	101	104	102	104
LCSD 860-124594/4	Lab Control Sample Dup	104	103	99	104
MB 860-124594/10	Method Blank	104	107	106	106
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-124594/10

Matrix: Water

Analysis Batch: 124594

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			10/03/23 23:36	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			10/03/23 23:36	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			10/03/23 23:36	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			10/03/23 23:36	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			10/03/23 23:36	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			10/03/23 23:36	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			10/03/23 23:36	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			10/03/23 23:36	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			10/03/23 23:36	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			10/03/23 23:36	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			10/03/23 23:36	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			10/03/23 23:36	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			10/03/23 23:36	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			10/03/23 23:36	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			10/03/23 23:36	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			10/03/23 23:36	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			10/03/23 23:36	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			10/03/23 23:36	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			10/03/23 23:36	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			10/03/23 23:36	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			10/03/23 23:36	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			10/03/23 23:36	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			10/03/23 23:36	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			10/03/23 23:36	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			10/03/23 23:36	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			10/03/23 23:36	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			10/03/23 23:36	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			10/03/23 23:36	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			10/03/23 23:36	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			10/03/23 23:36	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			10/03/23 23:36	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			10/03/23 23:36	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			10/03/23 23:36	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			10/03/23 23:36	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			10/03/23 23:36	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			10/03/23 23:36	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			10/03/23 23:36	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			10/03/23 23:36	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			10/03/23 23:36	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			10/03/23 23:36	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			10/03/23 23:36	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			10/03/23 23:36	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			10/03/23 23:36	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			10/03/23 23:36	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			10/03/23 23:36	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			10/03/23 23:36	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			10/03/23 23:36	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			10/03/23 23:36	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-124594/10

Matrix: Water

Analysis Batch: 124594

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	<0.000368	U	0.00100	0.000368 mg/L			10/03/23 23:36	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			10/03/23 23:36	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			10/03/23 23:36	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			10/03/23 23:36	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			10/03/23 23:36	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			10/03/23 23:36	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			10/03/23 23:36	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			10/03/23 23:36	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			10/03/23 23:36	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			10/03/23 23:36	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			10/03/23 23:36	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			10/03/23 23:36	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			10/03/23 23:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		10/03/23 23:36	1
Dibromofluoromethane (Surr)	107		75 - 131		10/03/23 23:36	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		10/03/23 23:36	1
Toluene-d8 (Surr)	106		80 - 120		10/03/23 23:36	1

Lab Sample ID: LCS 860-124594/3

Matrix: Water

Analysis Batch: 124594

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	0.05608		mg/L		112	75 - 125
Bromobenzene	0.0500	0.05277		mg/L		106	75 - 125
Bromochloromethane	0.0500	0.05393		mg/L		108	60 - 140
Bromodichloromethane	0.0500	0.05504		mg/L		110	75 - 125
Bromoform	0.0500	0.05046		mg/L		101	70 - 130
Bromomethane	0.0500	0.04969		mg/L		99	60 - 140
2-Butanone	0.250	0.2607		mg/L		104	60 - 140
Carbon tetrachloride	0.0500	0.05853		mg/L		117	70 - 130
Chlorobenzene	0.0500	0.05370		mg/L		107	65 - 135
Chloroethane	0.0500	0.05403		mg/L		108	60 - 140
Chloroform	0.0500	0.05684		mg/L		114	70 - 121
Chloromethane	0.0500	0.05004		mg/L		100	60 - 140
2-Chlorotoluene	0.0500	0.05608		mg/L		112	73 - 125
4-Chlorotoluene	0.0500	0.05672		mg/L		113	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05803		mg/L		116	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05697		mg/L		114	74 - 125
Dibromochloromethane	0.0500	0.05315		mg/L		106	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04877		mg/L		98	59 - 125
1,2-Dibromoethane	0.0500	0.05265		mg/L		105	73 - 125
1,2-Dichlorobenzene	0.0500	0.05246		mg/L		105	75 - 125
1,3-Dichlorobenzene	0.0500	0.05274		mg/L		105	75 - 125
1,4-Dichlorobenzene	0.0500	0.05287		mg/L		106	75 - 125
Dichlorodifluoromethane	0.0500	0.04202		mg/L		84	50 - 150

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QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-124594/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 124594							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.05795		mg/L		116	70 - 130
1,2-Dichloroethane	0.0500	0.05477		mg/L		110	72 - 130
1,1-Dichloroethene	0.0500	0.05509		mg/L		110	50 - 150
1,2-Dichloropropane	0.0500	0.05658		mg/L		113	74 - 125
1,3-Dichloropropane	0.0500	0.05472		mg/L		109	75 - 125
2,2-Dichloropropane	0.0500	0.06016		mg/L		120	75 - 125
1,1-Dichloropropene	0.0500	0.05907		mg/L		118	75 - 125
Ethylbenzene	0.0500	0.05656		mg/L		113	75 - 125
Hexachlorobutadiene	0.0500	0.04997		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.05663		mg/L		113	75 - 125
Methylene Chloride	0.0500	0.05073		mg/L		101	71 - 125
m,p-Xylenes	0.0500	0.05571		mg/L		111	75 - 125
MTBE	0.0500	0.05303		mg/L		106	65 - 135
Naphthalene	0.0500	0.05285		mg/L		106	70 - 130
n-Butylbenzene	0.0500	0.05774		mg/L		115	75 - 125
N-Propylbenzene	0.0500	0.05826		mg/L		117	75 - 125
o-Xylene	0.0500	0.05664		mg/L		113	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05756		mg/L		115	75 - 125
sec-Butylbenzene	0.0500	0.05683		mg/L		114	75 - 125
Styrene	0.0500	0.05669		mg/L		113	75 - 125
tert-Butylbenzene	0.0500	0.05538		mg/L		111	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05391		mg/L		108	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05185		mg/L		104	74 - 125
Tetrachloroethene	0.0500	0.05160		mg/L		103	71 - 125
Toluene	0.0500	0.05367		mg/L		107	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05532		mg/L		111	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05632		mg/L		113	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05135		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05137		mg/L		103	75 - 135
1,1,1-Trichloroethane	0.0500	0.05602		mg/L		112	70 - 130
1,1,2-Trichloroethane	0.0500	0.05400		mg/L		108	70 - 130
Trichloroethene	0.0500	0.05324		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.05748		mg/L		115	60 - 140
1,2,3-Trichloropropane	0.0500	0.05446		mg/L		109	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05732		mg/L		115	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05642		mg/L		113	60 - 140
Vinyl chloride	0.0500	0.05178		mg/L		104	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		74 - 124				
Dibromofluoromethane (Surr)	104		75 - 131				
1,2-Dichloroethane-d4 (Surr)	102		63 - 144				
Toluene-d8 (Surr)	104		80 - 120				

QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-124594/4

Matrix: Water

Analysis Batch: 124594

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	0.05410		mg/L		108	75 - 125	4	25
Bromobenzene	0.0500	0.05414		mg/L		108	75 - 125	3	25
Bromochloromethane	0.0500	0.05310		mg/L		106	60 - 140	2	25
Bromodichloromethane	0.0500	0.05311		mg/L		106	75 - 125	4	25
Bromoform	0.0500	0.05199		mg/L		104	70 - 130	3	25
Bromomethane	0.0500	0.04840		mg/L		97	60 - 140	3	25
2-Butanone	0.250	0.2716		mg/L		109	60 - 140	4	25
Carbon tetrachloride	0.0500	0.05560		mg/L		111	70 - 130	5	25
Chlorobenzene	0.0500	0.05442		mg/L		109	65 - 135	1	25
Chloroethane	0.0500	0.05082		mg/L		102	60 - 140	6	25
Chloroform	0.0500	0.05543		mg/L		111	70 - 121	3	25
Chloromethane	0.0500	0.04791		mg/L		96	60 - 140	4	25
2-Chlorotoluene	0.0500	0.05751		mg/L		115	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05842		mg/L		117	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.05620		mg/L		112	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.05575		mg/L		111	74 - 125	2	25
Dibromochloromethane	0.0500	0.05411		mg/L		108	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05393		mg/L		108	59 - 125	10	25
1,2-Dibromoethane	0.0500	0.05406		mg/L		108	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.05440		mg/L		109	75 - 125	4	25
1,3-Dichlorobenzene	0.0500	0.05486		mg/L		110	75 - 125	4	25
1,4-Dichlorobenzene	0.0500	0.05406		mg/L		108	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.03983		mg/L		80	50 - 150	5	25
1,1-Dichloroethane	0.0500	0.05659		mg/L		113	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.05390		mg/L		108	72 - 130	2	25
1,1-Dichloroethene	0.0500	0.05456		mg/L		109	50 - 150	1	25
1,2-Dichloropropane	0.0500	0.05416		mg/L		108	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.05554		mg/L		111	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05863		mg/L		117	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.05740		mg/L		115	75 - 125	3	25
Ethylbenzene	0.0500	0.05647		mg/L		113	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.05222		mg/L		104	75 - 125	4	25
Isopropylbenzene	0.0500	0.05708		mg/L		114	75 - 125	1	25
Methylene Chloride	0.0500	0.05027		mg/L		101	71 - 125	1	25
m,p-Xylenes	0.0500	0.05628		mg/L		113	75 - 125	1	25
MTBE	0.0500	0.05374		mg/L		107	65 - 135	1	25
Naphthalene	0.0500	0.05705		mg/L		114	70 - 130	8	25
n-Butylbenzene	0.0500	0.05940		mg/L		119	75 - 125	3	25
N-Propylbenzene	0.0500	0.05936		mg/L		119	75 - 125	2	25
o-Xylene	0.0500	0.05686		mg/L		114	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05948		mg/L		119	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05859		mg/L		117	75 - 125	3	25
Styrene	0.0500	0.05715		mg/L		114	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05663		mg/L		113	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.05522		mg/L		110	72 - 125	2	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.05512		mg/L		110	74 - 125	6	25
Tetrachloroethene	0.0500	0.05202		mg/L		104	71 - 125	1	25
Toluene	0.0500	0.05362		mg/L		107	70 - 130	0	25

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QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-124594/4

Matrix: Water

Analysis Batch: 124594

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	0.05316		mg/L		106	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05730		mg/L		115	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05409		mg/L		108	75 - 137	5	25
1,2,4-Trichlorobenzene	0.0500	0.05424		mg/L		108	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.05433		mg/L		109	70 - 130	3	25
1,1,2-Trichloroethane	0.0500	0.05539		mg/L		111	70 - 130	3	25
Trichloroethene	0.0500	0.05151		mg/L		103	75 - 135	3	25
Trichlorofluoromethane	0.0500	0.05368		mg/L		107	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.05790		mg/L		116	75 - 125	6	25
1,2,4-Trimethylbenzene	0.0500	0.05914		mg/L		118	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05815		mg/L		116	60 - 140	3	25
Vinyl chloride	0.0500	0.04922		mg/L		98	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	104		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-124632/13

Matrix: Water

Analysis Batch: 124632

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			10/03/23 22:25	1
Fluoride	<0.100	U	0.500	0.100 mg/L			10/03/23 22:25	1
Sulfate	<0.200	U	0.500	0.200 mg/L			10/03/23 22:25	1

Lab Sample ID: LCS 860-124632/14

Matrix: Water

Analysis Batch: 124632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	9.976		mg/L		100	90 - 110
Fluoride	10.0	10.11		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-124632/15

Matrix: Water

Analysis Batch: 124632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	10.0	9.946		mg/L		99	90 - 110	0	20
Fluoride	10.0	10.14		mg/L		101	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-124632/17

Matrix: Water

Analysis Batch: 124632

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	0.5603		mg/L		112	50 - 150	
Chloride	0.500	0.6974		mg/L		139	50 - 150	
Fluoride	0.500	0.5870		mg/L		117	50 - 150	
Sulfate	0.500	0.3692	J	mg/L		74	50 - 150	

Lab Sample ID: 880-33913-1 MS

Matrix: Water

Analysis Batch: 124632

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Bromide	<0.0711	U	10.0	9.806		mg/L		98	90 - 110	
Chloride	225	*- B	10.0	235.0	4	mg/L		97	90 - 110	
Fluoride	0.651		10.0	9.670		mg/L		90	90 - 110	

Lab Sample ID: 880-33913-1 MSD

Matrix: Water

Analysis Batch: 124632

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	Limit
Bromide	<0.0711	U	10.0	9.749		mg/L		97	90 - 110		1	15
Chloride	225	*- B	10.0	234.7	4	mg/L		95	90 - 110		0	15
Fluoride	0.651		10.0	9.687		mg/L		90	90 - 110		0	15

Lab Sample ID: MB 860-124633/13

Matrix: Water

Analysis Batch: 124633

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.06125	J	0.100	0.0391	mg/L		10/03/23 22:25	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L		10/03/23 22:25	1

Lab Sample ID: LCS 860-124633/14

Matrix: Water

Analysis Batch: 124633

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	8.975		mg/L		90	80 - 120	
Nitrite as N	10.0	10.59		mg/L		106	80 - 120	

Lab Sample ID: LCSD 860-124633/15

Matrix: Water

Analysis Batch: 124633

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
Nitrate as N	10.0	8.959		mg/L		90	80 - 120		0	20
Nitrite as N	10.0	10.53		mg/L		105	80 - 120		1	20

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QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-124633/16

Matrix: Water

Analysis Batch: 124633

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.100	0.05819	J	mg/L		58	50 - 150

Lab Sample ID: 880-33913-1 MS

Matrix: Water

Analysis Batch: 124633

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.0391	U *+	10.0	9.048		mg/L		90	80 - 120
Nitrite as N	<0.0293	U F1	2.50	<0.0293	U F1	mg/L		0	80 - 120

Lab Sample ID: 880-33913-1 MSD

Matrix: Water

Analysis Batch: 124633

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.0391	U *+	10.0	8.816		mg/L		88	80 - 120	3	15
Nitrite as N	<0.0293	U F1	2.50	<0.0293	U F1	mg/L		0	80 - 120	NC	15

Lab Sample ID: MB 860-124885/13

Matrix: Water

Analysis Batch: 124885

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			10/05/23 00:29	1
Chloride	<0.250	U	0.500	0.250 mg/L			10/05/23 00:29	1
Fluoride	<0.100	U	0.500	0.100 mg/L			10/05/23 00:29	1
Sulfate	<0.200	U	0.500	0.200 mg/L			10/05/23 00:29	1

Lab Sample ID: MB 860-124885/51

Matrix: Water

Analysis Batch: 124885

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			10/05/23 06:40	1
Chloride	<0.250	U	0.500	0.250 mg/L			10/05/23 06:40	1
Fluoride	<0.100	U	0.500	0.100 mg/L			10/05/23 06:40	1
Sulfate	<0.200	U	0.500	0.200 mg/L			10/05/23 06:40	1

Lab Sample ID: LCS 860-124885/52

Matrix: Water

Analysis Batch: 124885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	9.856		mg/L		99	90 - 110
Chloride	10.0	9.838		mg/L		98	90 - 110
Fluoride	10.0	10.20		mg/L		102	90 - 110
Sulfate	10.0	10.21		mg/L		102	90 - 110

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QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-124885/53
Matrix: Water
Analysis Batch: 124885

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	
Bromide	10.0	9.873			mg/L		99	90 - 110	0	20
Chloride	10.0	9.830			mg/L		98	90 - 110	0	20
Fluoride	10.0	10.19			mg/L		102	90 - 110	0	20
Sulfate	10.0	10.21			mg/L		102	90 - 110	0	20

Lab Sample ID: LLCS 860-124885/16
Matrix: Water
Analysis Batch: 124885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike		LLCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Limit				Limits	RPD
Bromide	0.500	0.4734	J		mg/L		95	50 - 150	
Chloride	0.500	0.4552	J		mg/L		91	50 - 150	
Fluoride	0.500	0.5314			mg/L		106	50 - 150	
Sulfate	0.500	0.4412	J		mg/L		88	50 - 150	

Lab Sample ID: 880-33913-1 MS
Matrix: Water
Analysis Batch: 124885

Client Sample ID: Levey Well
Prep Type: Total/NA

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Bromide	0.411	J	10.0	9.986		mg/L		96	90 - 110	
Chloride	223		10.0	230.5	4	mg/L		76	90 - 110	
Fluoride	0.672		10.0	10.79		mg/L		101	90 - 110	
Sulfate	52.6		10.0	62.27	4	mg/L		97	90 - 110	

Lab Sample ID: 880-33913-1 MSD
Matrix: Water
Analysis Batch: 124885

Client Sample ID: Levey Well
Prep Type: Total/NA

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Bromide	0.411	J	10.0	9.993		mg/L		96	90 - 110	0	15
Chloride	223		10.0	230.3	4	mg/L		75	90 - 110	0	15
Fluoride	0.672		10.0	10.79		mg/L		101	90 - 110	0	15
Sulfate	52.6		10.0	62.26	4	mg/L		97	90 - 110	0	15

Lab Sample ID: MB 860-124886/13
Matrix: Water
Analysis Batch: 124886

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	MB		Dil Fac
	Result	Qualifier					Result	Qualifier	
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L		10/05/23 00:29		1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L		10/05/23 00:29		1

Lab Sample ID: MB 860-124886/51
Matrix: Water
Analysis Batch: 124886

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	MB		Dil Fac
	Result	Qualifier					Result	Qualifier	
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L		10/05/23 06:40		1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L		10/05/23 06:40		1

Eurofins Midland

QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 860-124886/52				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 124886							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.659		mg/L		97	80 - 120
Nitrite as N	10.0	10.74		mg/L		107	80 - 120

Lab Sample ID: LCSD 860-124886/53							Client Sample ID: Lab Control Sample Dup				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 124886											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD	RPD	
							Limits				
Nitrate as N	10.0	9.639		mg/L		96	80 - 120	0		20	
Nitrite as N	10.0	10.77		mg/L		108	80 - 120	0		20	

Lab Sample ID: LLCS 860-124886/17				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 124886							
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.05324	J	mg/L		53	50 - 150
Nitrite as N	0.100	0.1216		mg/L		122	50 - 150

Lab Sample ID: 880-33913-1 MS							Client Sample ID: Levey Well				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 124886											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Nitrate as N	0.0415	J H	10.0	9.448		mg/L		94	80 - 120		
Nitrite as N	0.293	H	2.50	3.085		mg/L		112	80 - 120		

Lab Sample ID: 880-33913-1 MSD

Client Sample ID: Levey Well

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 124886

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Nitrate as N	0.0415	J H	10.0	9.427		mg/L		94	80 - 120	0	15
Nitrite as N	0.293	H	2.50	3.041		mg/L		110	80 - 120	1	15

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-124791/1-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total Recoverable			
Analysis Batch: 124952						Prep Batch: 124791			
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Calcium	<0.115	U	0.200	0.115 mg/L		10/04/23 11:00	10/04/23 21:23		1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		10/04/23 11:00	10/04/23 21:23		1
Potassium	<0.0914	U	0.500	0.0914 mg/L		10/04/23 11:00	10/04/23 21:23		1
Sodium	<0.152	U	0.500	0.152 mg/L		10/04/23 11:00	10/04/23 21:23		1
SiO2	<0.471	U	1.07	0.471 mg/L		10/04/23 11:00	10/04/23 21:23		1

QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-124791/2-A

Matrix: Water

Analysis Batch: 124952

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 124791

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result					Qualifier
Calcium	25.0	23.60		mg/L		94	85 - 115
Magnesium	25.0	23.70		mg/L		95	85 - 115
Potassium	10.0	9.480		mg/L		95	85 - 115
Sodium	25.0	23.80		mg/L		95	85 - 115
SiO2	21.4	20.72		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-124791/3-A

Matrix: Water

Analysis Batch: 124952

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 124791

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	
	Added	Result	Qualifier	Limits				RPD	Limit	
Calcium	25.0	23.70			mg/L		95	85 - 115	0	20
Magnesium	25.0	23.70			mg/L		95	85 - 115	0	20
Potassium	10.0	9.550			mg/L		96	85 - 115	1	20
Sodium	25.0	23.80			mg/L		95	85 - 115	0	20
SiO2	21.4	20.76			mg/L		97	85 - 115	0	20

Lab Sample ID: LLCS 860-124791/4-A

Matrix: Water

Analysis Batch: 124952

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 124791

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Calcium	0.200	0.1560	J	mg/L		78	50 - 150
Magnesium	0.200	0.2030		mg/L		102	50 - 150
Potassium	0.500	0.4570	J	mg/L		91	50 - 150
Sodium	0.500	0.4540	J	mg/L		91	50 - 150
SiO2	1.07	1.096		mg/L		102	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-124661/3

Matrix: Water

Analysis Batch: 124661

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	4.00 mg/L			10/03/23 15:34	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			10/03/23 15:34	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			10/03/23 15:34	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			10/03/23 15:34	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			10/03/23 15:34	1

Lab Sample ID: LCS 860-124661/4

Matrix: Water

Analysis Batch: 124661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Alkalinity	250	249.9		mg/L		100	85 - 115

Eurofins Midland

QC Sample Results

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

Job ID: 880-33913-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-124661/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 124661											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity			250	254.3		mg/L		102	85 - 115	2	20

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

Lab Sample ID: MB 860-124757/1				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 124757											
Analyte		MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed		Dil Fac
Total Dissolved Solids		<5.00	U	5.00		5.00 mg/L			10/04/23 09:17		1

Lab Sample ID: LCS 860-124757/2				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 124757											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	987.0		mg/L		99	80 - 120		

Lab Sample ID: LCSD 860-124757/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 124757											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1020		mg/L		102	80 - 120	3	10

QC Association Summary

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

Job ID: 880-33913-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 124594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total/NA	Water	8260C	
MB 860-124594/10	Method Blank	Total/NA	Water	8260C	
LCS 860-124594/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-124594/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 124632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total/NA	Water	300.0	
MB 860-124632/13	Method Blank	Total/NA	Water	300.0	
LCS 860-124632/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-124632/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-124632/17	Lab Control Sample	Total/NA	Water	300.0	
880-33913-1 MS	Levey Well	Total/NA	Water	300.0	
880-33913-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 124633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total/NA	Water	300.0	
MB 860-124633/13	Method Blank	Total/NA	Water	300.0	
LCS 860-124633/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-124633/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-124633/16	Lab Control Sample	Total/NA	Water	300.0	
880-33913-1 MS	Levey Well	Total/NA	Water	300.0	
880-33913-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 124885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total/NA	Water	300.0	
MB 860-124885/13	Method Blank	Total/NA	Water	300.0	
MB 860-124885/51	Method Blank	Total/NA	Water	300.0	
LCS 860-124885/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-124885/53	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-124885/16	Lab Control Sample	Total/NA	Water	300.0	
880-33913-1 MS	Levey Well	Total/NA	Water	300.0	
880-33913-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 124886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total/NA	Water	300.0	
MB 860-124886/13	Method Blank	Total/NA	Water	300.0	
MB 860-124886/51	Method Blank	Total/NA	Water	300.0	
LCS 860-124886/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-124886/53	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-124886/17	Lab Control Sample	Total/NA	Water	300.0	
880-33913-1 MS	Levey Well	Total/NA	Water	300.0	
880-33913-1 MSD	Levey Well	Total/NA	Water	300.0	

QC Association Summary

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

Job ID: 880-33913-1
SDG: Hobbs NM

Metals

Prep Batch: 124791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-124791/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-124791/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-124791/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-124791/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 124952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	124791
880-33913-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	124791
MB 860-124791/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	124791
LCS 860-124791/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	124791
LCSD 860-124791/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	124791
LLCS 860-124791/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	124791

General Chemistry

Analysis Batch: 121784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 124661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-124661/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-124661/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-124661/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 124757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-124757/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-124757/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-124757/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 124850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33913-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

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

Job ID: 880-33913-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-33913-1
Date Collected: 10/02/23 10:35 Matrix: Water
Date Received: 10/02/23 15:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	124594	NA	EET HOU	10/04/23 00:38
Total/NA	Analysis	300.0		1	124632	RBNS	EET HOU	10/03/23 23:22
Total/NA	Analysis	300.0		1	124633	A1S	EET HOU	10/03/23 23:22
Total/NA	Analysis	300.0		1	124885	WP	EET HOU	10/05/23 07:10
Total/NA	Analysis	300.0		1	124886	WP	EET HOU	10/05/23 07:10
Total Recoverable	Prep	200.7			124791	MD	EET HOU	10/04/23 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	124952	JDM	EET HOU	10/04/23 22:02
Total Recoverable	Prep	200.7			124791	MD	EET HOU	10/04/23 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	124952	JDM	EET HOU	10/04/23 22:35
Total/NA	Analysis	SM 1030E		1	121784	SC	EET HOU	10/03/23 08:15
Total/NA	Analysis	SM 2320B		1	124661	TL	EET HOU	10/03/23 17:49
Total/NA	Analysis	SM 2540C		1	124757	SA	EET HOU	10/04/23 09:17
Total/NA	Analysis	SM 4500 H+ B		1	124850	KEG	EET HOU	10/04/23 15:09

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: 880-33913-1
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	T104704215-23-53	06-30-24

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
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: 880-33913-1
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: 880-33913-1
SDG: Hobbs NM

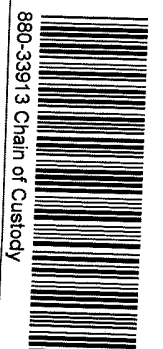
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33913-1	Levey Well	Water	10/02/23 10:35	10/02/23 15:43

- 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) 505-3334
Midland TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock TX (806)794-1296
(575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-251-1111)



880-33913 Chain of Custody

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

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

ANALYSIS REQUEST						Work Order Notes	
Project Name	Levey Well	Hobbs NM					
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)	5.9/5.6			Thermometer ID			712		
Received Intact.	Yes			No					
Cooler Custody Seals	Yes			No			Correction Factor		
Sample Custody Seals:	Yes			No			Total Containers:		

Number of Containers

F, Cl, SO₄, B

Ca, K, Mg, Na, Si

Day

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

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number										Sample Comments			
						VOCs	Anions	Cations	pH	Alkalinity	TDS								
Levey Well	GW	10-2-03	1035	—		X	X	X	X	X	X								24 Hr

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 Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
		1631 / 245.1 / 7470 / 7471 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
		10/2/23			
		1543			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-33913-1

SDG Number: Hobbs NM

Login Number: 33913

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: 880-33913-1

SDG Number: Hobbs NM

Login Number: 33913

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 10/03/23 12:29 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.	False	Black lines covering information.
COC is filled out with all pertinent information.	False	Black lines covering information
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Number of containers covered by black lines.
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 10/17/2023 2:14:02 PM

JOB DESCRIPTION

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

JOB NUMBER

880-34172-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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10/17/2023 2:14:02 PM

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

Client: Ensolum

Laboratory Job ID: 880-34172-1

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

SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-34172-1
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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: 880-34172-1
SDG: Hobbs NM

Job ID: 880-34172-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-34172-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 10/9/2023 2:45 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 8.0°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-125623 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_ORGFM_28D: Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-125623 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-125624 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.

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

Metals

Method 200.7: Due to the high concentration of Calcium, Magnesium and Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-125844 and analytical batch 860-125988 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: 880-34172-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-34172-1

Date Collected: 10/09/23 11:30

Matrix: Water

Date Received: 10/09/23 14:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460	mg/L		10/10/23 16:14	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		10/10/23 16:14	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		10/10/23 16:14	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		10/10/23 16:14	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		10/10/23 16:14	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		10/10/23 16:14	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		10/10/23 16:14	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		10/10/23 16:14	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		10/10/23 16:14	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		10/10/23 16:14	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		10/10/23 16:14	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		10/10/23 16:14	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		10/10/23 16:14	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		10/10/23 16:14	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		10/10/23 16:14	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		10/10/23 16:14	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		10/10/23 16:14	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		10/10/23 16:14	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		10/10/23 16:14	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		10/10/23 16:14	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		10/10/23 16:14	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		10/10/23 16:14	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		10/10/23 16:14	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		10/10/23 16:14	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		10/10/23 16:14	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		10/10/23 16:14	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		10/10/23 16:14	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		10/10/23 16:14	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		10/10/23 16:14	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		10/10/23 16:14	1
Ethylbenzene	0.000409	J	0.00100	0.000385	mg/L		10/10/23 16:14	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		10/10/23 16:14	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		10/10/23 16:14	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		10/10/23 16:14	1
m,p-Xylenes	0.00150	J	0.0100	0.00124	mg/L		10/10/23 16:14	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		10/10/23 16:14	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		10/10/23 16:14	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		10/10/23 16:14	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		10/10/23 16:14	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		10/10/23 16:14	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		10/10/23 16:14	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		10/10/23 16:14	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		10/10/23 16:14	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		10/10/23 16:14	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		10/10/23 16:14	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		10/10/23 16:14	1
Tetrachloroethene	0.000818	J	0.00100	0.000655	mg/L		10/10/23 16:14	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		10/10/23 16:14	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		10/10/23 16:14	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-34172-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 10/09/23 11:30
Date Received: 10/09/23 14:45

Lab Sample ID: 880-34172-1
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			10/10/23 16:14	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			10/10/23 16:14	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			10/10/23 16:14	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			10/10/23 16:14	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			10/10/23 16:14	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			10/10/23 16:14	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			10/10/23 16:14	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			10/10/23 16:14	1
1,2,4-Trimethylbenzene	0.000980	J	0.00100	0.000417	mg/L			10/10/23 16:14	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			10/10/23 16:14	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			10/10/23 16:14	1
Xylenes, Total	0.00150	J	0.0100	0.00124	mg/L			10/10/23 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124					10/10/23 16:14	1
Dibromofluoromethane (Surr)	102		75 - 131					10/10/23 16:14	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144					10/10/23 16:14	1
Toluene-d8 (Surr)	104		80 - 120					10/10/23 16:14	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.432	J	0.500	0.0711	mg/L			10/10/23 23:53	1
Nitrate as N	0.0930	J	0.100	0.0391	mg/L			10/10/23 23:53	1
Chloride	233		0.500	0.250	mg/L			10/10/23 23:53	1
Nitrite as N	0.423		0.100	0.0293	mg/L			10/10/23 23:53	1
Fluoride	0.738		0.500	0.100	mg/L			10/10/23 23:53	1
Sulfate	45.2		0.500	0.200	mg/L			10/10/23 23:53	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		10/11/23 12:13	10/11/23 20:40	50
Magnesium	45.4		0.200	0.0428	mg/L		10/11/23 12:13	10/11/23 20:29	1
Potassium	3.61		0.500	0.0914	mg/L		10/11/23 12:13	10/11/23 20:29	1
Sodium	80.5		0.500	0.152	mg/L		10/11/23 12:13	10/11/23 20:29	1
SiO2	71.0		1.07	0.471	mg/L		10/11/23 12:13	10/11/23 20:29	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	1.16				%			10/12/23 08:15	1
Alkalinity (SM 2320B)	407		4.00	4.00	mg/L			10/11/23 14:30	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	407		4.00	4.00	mg/L			10/11/23 14:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/11/23 14:30	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/11/23 14:30	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/11/23 14:30	1
Total Dissolved Solids (SM 2540C)	1160		10.0	10.0	mg/L			10/11/23 09:34	1
pH (SM 4500 H+ B)	6.9	HF			SU			10/11/23 12:40	1
Temperature (SM 4500 H+ B)	14.6	HF			Degrees C			10/11/23 12:40	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-34172-1
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 (80-120)
880-34172-1	Levey Well	103	102	100	104
LCS 860-125565/1011	Lab Control Sample	105	98	96	101
LCSD 860-125565/12	Lab Control Sample Dup	100	96	97	99
MB 860-125565/16	Method Blank	98	102	104	99
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-34172-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-125565/16

Matrix: Water

Analysis Batch: 125565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			10/10/23 14:11	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			10/10/23 14:11	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			10/10/23 14:11	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			10/10/23 14:11	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			10/10/23 14:11	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			10/10/23 14:11	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			10/10/23 14:11	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			10/10/23 14:11	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			10/10/23 14:11	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			10/10/23 14:11	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			10/10/23 14:11	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			10/10/23 14:11	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			10/10/23 14:11	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			10/10/23 14:11	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			10/10/23 14:11	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			10/10/23 14:11	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			10/10/23 14:11	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			10/10/23 14:11	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			10/10/23 14:11	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			10/10/23 14:11	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			10/10/23 14:11	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			10/10/23 14:11	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			10/10/23 14:11	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			10/10/23 14:11	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			10/10/23 14:11	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			10/10/23 14:11	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			10/10/23 14:11	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			10/10/23 14:11	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			10/10/23 14:11	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			10/10/23 14:11	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			10/10/23 14:11	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			10/10/23 14:11	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			10/10/23 14:11	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			10/10/23 14:11	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			10/10/23 14:11	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			10/10/23 14:11	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			10/10/23 14:11	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			10/10/23 14:11	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			10/10/23 14:11	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			10/10/23 14:11	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			10/10/23 14:11	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			10/10/23 14:11	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			10/10/23 14:11	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			10/10/23 14:11	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			10/10/23 14:11	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			10/10/23 14:11	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			10/10/23 14:11	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			10/10/23 14:11	1

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QC Sample Results

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

Job ID: 880-34172-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-125565/16					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 125565									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			10/10/23 14:11	1	
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			10/10/23 14:11	1	
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			10/10/23 14:11	1	
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			10/10/23 14:11	1	
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			10/10/23 14:11	1	
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			10/10/23 14:11	1	
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			10/10/23 14:11	1	
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			10/10/23 14:11	1	
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			10/10/23 14:11	1	
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			10/10/23 14:11	1	
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			10/10/23 14:11	1	
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			10/10/23 14:11	1	
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			10/10/23 14:11	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		74 - 124				10/10/23 14:11	1	
Dibromofluoromethane (Surr)	102		75 - 131				10/10/23 14:11	1	
1,2-Dichloroethane-d4 (Surr)	104		63 - 144				10/10/23 14:11	1	
Toluene-d8 (Surr)	99		80 - 120				10/10/23 14:11	1	

Lab Sample ID: LCS 860-125565/1011					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 125565									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.0500	0.04973		mg/L		99	75 - 125		
Bromobenzene	0.0500	0.05242		mg/L		105	75 - 125		
Bromochloromethane	0.0500	0.05065		mg/L		101	60 - 140		
Bromodichloromethane	0.0500	0.04852		mg/L		97	75 - 125		
Bromoform	0.0500	0.05028		mg/L		101	70 - 130		
Bromomethane	0.0500	0.04919		mg/L		98	60 - 140		
2-Butanone	0.250	0.2501		mg/L		100	60 - 140		
Carbon tetrachloride	0.0500	0.04840		mg/L		97	70 - 130		
Chlorobenzene	0.0500	0.05087		mg/L		102	65 - 135		
Chloroethane	0.0500	0.04657		mg/L		93	60 - 140		
Chloroform	0.0500	0.05018		mg/L		100	70 - 121		
Chloromethane	0.0500	0.04801		mg/L		96	60 - 140		
2-Chlorotoluene	0.0500	0.05335		mg/L		107	73 - 125		
4-Chlorotoluene	0.0500	0.05326		mg/L		107	74 - 125		
cis-1,2-Dichloroethene	0.0500	0.04999		mg/L		100	75 - 125		
cis-1,3-Dichloropropene	0.0500	0.05077		mg/L		102	74 - 125		
Dibromochloromethane	0.0500	0.05118		mg/L		102	73 - 125		
1,2-Dibromo-3-Chloropropane	0.0500	0.05377		mg/L		108	59 - 125		
1,2-Dibromoethane	0.0500	0.05056		mg/L		101	73 - 125		
1,2-Dichlorobenzene	0.0500	0.05298		mg/L		106	75 - 125		
1,3-Dichlorobenzene	0.0500	0.05219		mg/L		104	75 - 125		
1,4-Dichlorobenzene	0.0500	0.05138		mg/L		103	75 - 125		
Dichlorodifluoromethane	0.0500	0.04060		mg/L		81	50 - 150		

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QC Sample Results

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

Job ID: 880-34172-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-125565/1011

Matrix: Water

Analysis Batch: 125565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
1,1-Dichloroethane	0.0500	0.04971		mg/L		99	70 - 130
1,2-Dichloroethane	0.0500	0.04864		mg/L		97	72 - 130
1,1-Dichloroethene	0.0500	0.04946		mg/L		99	50 - 150
1,2-Dichloropropane	0.0500	0.04943		mg/L		99	74 - 125
1,3-Dichloropropane	0.0500	0.05159		mg/L		103	75 - 125
2,2-Dichloropropane	0.0500	0.04683		mg/L		94	75 - 125
1,1-Dichloropropene	0.0500	0.04809		mg/L		96	75 - 125
Ethylbenzene	0.0500	0.05174		mg/L		103	75 - 125
Hexachlorobutadiene	0.0500	0.05028		mg/L		101	75 - 125
Isopropylbenzene	0.0500	0.05326		mg/L		107	75 - 125
Methylene Chloride	0.0500	0.04858		mg/L		97	71 - 125
m,p-Xylenes	0.0500	0.05266		mg/L		105	75 - 125
MTBE	0.0500	0.04900		mg/L		98	65 - 135
Naphthalene	0.0500	0.05390		mg/L		108	70 - 130
n-Butylbenzene	0.0500	0.05202		mg/L		104	75 - 125
N-Propylbenzene	0.0500	0.05395		mg/L		108	75 - 125
o-Xylene	0.0500	0.05323		mg/L		106	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05480		mg/L		110	75 - 125
sec-Butylbenzene	0.0500	0.05332		mg/L		107	75 - 125
Styrene	0.0500	0.05406		mg/L		108	75 - 125
tert-Butylbenzene	0.0500	0.05509		mg/L		110	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05098		mg/L		102	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05213		mg/L		104	74 - 125
Tetrachloroethene	0.0500	0.05010		mg/L		100	71 - 125
Toluene	0.0500	0.04948		mg/L		99	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04938		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05160		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05347		mg/L		107	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05343		mg/L		107	75 - 135
1,1,1-Trichloroethane	0.0500	0.04835		mg/L		97	70 - 130
1,1,2-Trichloroethane	0.0500	0.04988		mg/L		100	70 - 130
Trichloroethene	0.0500	0.04989		mg/L		100	75 - 135
Trichlorofluoromethane	0.0500	0.04365		mg/L		87	60 - 140
1,2,3-Trichloropropane	0.0500	0.05244		mg/L		105	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05561		mg/L		111	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05428		mg/L		109	60 - 140
Vinyl chloride	0.0500	0.04620		mg/L		92	60 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	101		80 - 120

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QC Sample Results

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

Job ID: 880-34172-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-125565/12

Matrix: Water

Analysis Batch: 125565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	0.0500	0.05106		mg/L		102	75 - 125	3	25
Bromobenzene	0.0500	0.04859		mg/L		97	75 - 125	8	25
Bromochloromethane	0.0500	0.05186		mg/L		104	60 - 140	2	25
Bromodichloromethane	0.0500	0.04959		mg/L		99	75 - 125	2	25
Bromoform	0.0500	0.05012		mg/L		100	70 - 130	0	25
Bromomethane	0.0500	0.05012		mg/L		100	60 - 140	2	25
2-Butanone	0.250	0.2528		mg/L		101	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04892		mg/L		98	70 - 130	1	25
Chlorobenzene	0.0500	0.04994		mg/L		100	65 - 135	2	25
Chloroethane	0.0500	0.04706		mg/L		94	60 - 140	1	25
Chloroform	0.0500	0.05034		mg/L		101	70 - 121	0	25
Chloromethane	0.0500	0.04940		mg/L		99	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04945		mg/L		99	73 - 125	8	25
4-Chlorotoluene	0.0500	0.04924		mg/L		98	74 - 125	8	25
cis-1,2-Dichloroethene	0.0500	0.05076		mg/L		102	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05121		mg/L		102	74 - 125	1	25
Dibromochloromethane	0.0500	0.05097		mg/L		102	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04901		mg/L		98	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.05065		mg/L		101	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.04821		mg/L		96	75 - 125	9	25
1,3-Dichlorobenzene	0.0500	0.04789		mg/L		96	75 - 125	9	25
1,4-Dichlorobenzene	0.0500	0.04713		mg/L		94	75 - 125	9	25
Dichlorodifluoromethane	0.0500	0.04374		mg/L		87	50 - 150	7	25
1,1-Dichloroethane	0.0500	0.05113		mg/L		102	70 - 130	3	25
1,2-Dichloroethane	0.0500	0.05004		mg/L		100	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.04979		mg/L		100	50 - 150	1	25
1,2-Dichloropropane	0.0500	0.05114		mg/L		102	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.05039		mg/L		101	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.04809		mg/L		96	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04921		mg/L		98	75 - 125	2	25
Ethylbenzene	0.0500	0.05133		mg/L		103	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.04705		mg/L		94	75 - 125	7	25
Isopropylbenzene	0.0500	0.05254		mg/L		105	75 - 125	1	25
Methylene Chloride	0.0500	0.05041		mg/L		101	71 - 125	4	25
m,p-Xylenes	0.0500	0.05186		mg/L		104	75 - 125	2	25
MTBE	0.0500	0.05055		mg/L		101	65 - 135	3	25
Naphthalene	0.0500	0.05090		mg/L		102	70 - 130	6	25
n-Butylbenzene	0.0500	0.04880		mg/L		98	75 - 125	6	25
N-Propylbenzene	0.0500	0.05003		mg/L		100	75 - 125	8	25
o-Xylene	0.0500	0.05275		mg/L		106	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05017		mg/L		100	75 - 125	9	25
sec-Butylbenzene	0.0500	0.05038		mg/L		101	75 - 125	6	25
Styrene	0.0500	0.05370		mg/L		107	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05038		mg/L		101	75 - 125	9	25
1,1,1,2-Tetrachloroethane	0.0500	0.05073		mg/L		101	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.04775		mg/L		96	74 - 125	9	25
Tetrachloroethene	0.0500	0.04969		mg/L		99	71 - 125	1	25
Toluene	0.0500	0.04965		mg/L		99	70 - 130	0	25

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QC Sample Results

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

Job ID: 880-34172-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-125565/12
Matrix: Water
Analysis Batch: 125565

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	0.05042		mg/L		101	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05125		mg/L		103	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.04935		mg/L		99	75 - 137	8	25
1,2,4-Trichlorobenzene	0.0500	0.05046		mg/L		101	75 - 135	6	25
1,1,1-Trichloroethane	0.0500	0.04967		mg/L		99	70 - 130	3	25
1,1,2-Trichloroethane	0.0500	0.04951		mg/L		99	70 - 130	1	25
Trichloroethene	0.0500	0.05112		mg/L		102	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.04663		mg/L		93	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.04755		mg/L		95	75 - 125	10	25
1,2,4-Trimethylbenzene	0.0500	0.05109		mg/L		102	75 - 125	8	25
1,3,5-Trimethylbenzene	0.0500	0.04952		mg/L		99	60 - 140	9	25
Vinyl chloride	0.0500	0.04834		mg/L		97	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	99		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-125623/3
Matrix: Water
Analysis Batch: 125623

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			10/10/23 11:11	1
Chloride	<0.250	U	0.500	0.250 mg/L			10/10/23 11:11	1
Fluoride	<0.100	U	0.500	0.100 mg/L			10/10/23 11:11	1
Sulfate	<0.200	U	0.500	0.200 mg/L			10/10/23 11:11	1

Lab Sample ID: LCS 860-125623/4
Matrix: Water
Analysis Batch: 125623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	9.964		mg/L		100	90 - 110
Chloride	10.0	10.05		mg/L		100	90 - 110
Fluoride	10.0	10.82		mg/L		108	90 - 110
Sulfate	10.0	10.40		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-125623/5
Matrix: Water
Analysis Batch: 125623

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	10.04		mg/L		100	90 - 110	1	20
Chloride	10.0	10.07		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.96		mg/L		110	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-34172-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-125623/5					Client Sample ID: Lab Control Sample Dup						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 125623											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Sulfate	10.0	10.48		mg/L		105	90 - 110	1	20		

Lab Sample ID: LLCS 860-125623/6					Client Sample ID: Lab Control Sample						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 125623											
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits				
Bromide	0.500	0.4782	J	mg/L		96	50 - 150				
Chloride	0.500	0.2581	J	mg/L		52	50 - 150				
Fluoride	0.500	0.5038		mg/L		101	50 - 150				
Sulfate	0.500	0.4396	J	mg/L		88	50 - 150				

Lab Sample ID: MB 860-125624/3					Client Sample ID: Method Blank						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 125624											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			10/10/23 11:11	1			
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			10/10/23 11:11	1			

Lab Sample ID: LCS 860-125624/4					Client Sample ID: Lab Control Sample						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 125624											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Nitrate as N	10.0	10.04		mg/L		100	80 - 120				
Nitrite as N	10.0	10.22		mg/L		102	80 - 120				

Lab Sample ID: LCSD 860-125624/5					Client Sample ID: Lab Control Sample Dup						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 125624											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Nitrate as N	10.0	10.14		mg/L		101	80 - 120	1	20		
Nitrite as N	10.0	10.33		mg/L		103	80 - 120	1	20		

Lab Sample ID: LLCS 860-125624/7					Client Sample ID: Lab Control Sample						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 125624											
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits				
Nitrate as N	0.100	0.1118		mg/L		112	50 - 150				
Nitrite as N	0.100	0.09792	J	mg/L		98	50 - 150				

QC Sample Results

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

Job ID: 880-34172-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-125844/1-A

Matrix: Water

Analysis Batch: 125988

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 125844

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		10/11/23 12:13	10/11/23 17:34	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		10/11/23 12:13	10/11/23 17:34	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		10/11/23 12:13	10/11/23 17:34	1
Sodium	<0.152	U	0.500	0.152 mg/L		10/11/23 12:13	10/11/23 17:34	1
SiO2	<0.471	U	1.07	0.471 mg/L		10/11/23 12:13	10/11/23 17:34	1

Lab Sample ID: LCS 860-125844/2-A

Matrix: Water

Analysis Batch: 125988

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 125844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.90		mg/L		104	85 - 115
Magnesium	25.0	25.60		mg/L		102	85 - 115
Potassium	10.0	10.20		mg/L		102	85 - 115
Sodium	25.0	25.70		mg/L		103	85 - 115
SiO2	21.4	22.26		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-125844/3-A

Matrix: Water

Analysis Batch: 125988

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 125844

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	26.00		mg/L		104	85 - 115	0	20
Magnesium	25.0	25.50		mg/L		102	85 - 115	0	20
Potassium	10.0	10.30		mg/L		103	85 - 115	1	20
Sodium	25.0	25.70		mg/L		103	85 - 115	0	20
SiO2	21.4	22.26		mg/L		104	85 - 115	0	20

Lab Sample ID: LLCS 860-125844/4-A

Matrix: Water

Analysis Batch: 125988

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 125844

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1190	J	mg/L		60	50 - 150
Magnesium	0.200	0.2350		mg/L		118	50 - 150
Potassium	0.500	0.5890		mg/L		118	50 - 150
Sodium	0.500	0.7240		mg/L		145	50 - 150
SiO2	1.07	1.340		mg/L		125	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-125894/3

Matrix: Water

Analysis Batch: 125894

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			10/11/23 11:32	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			10/11/23 11:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			10/11/23 11:32	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			10/11/23 11:32	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-34172-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-125894/3					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 125894									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			10/11/23 11:32	1	

Lab Sample ID: LCS 860-125894/4					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 125894									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity	250	257.6		mg/L		103	85 - 115		

Lab Sample ID: LCSD 860-125894/5					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 125894									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	253.2		mg/L		101	85 - 115	2	20

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

Lab Sample ID: MB 860-125794/1					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 125794									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			10/11/23 09:34	1	

Lab Sample ID: LCS 860-125794/2					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 125794									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	1000	980.0		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-125794/3					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 125794									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	994.0		mg/L		99	80 - 120	1	10

QC Association Summary

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

Job ID: 880-34172-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 125565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34172-1	Levey Well	Total/NA	Water	8260C	
MB 860-125565/16	Method Blank	Total/NA	Water	8260C	
LCS 860-125565/1011	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-125565/12	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 125623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34172-1	Levey Well	Total/NA	Water	300.0	
MB 860-125623/3	Method Blank	Total/NA	Water	300.0	
LCS 860-125623/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-125623/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-125623/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 125624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34172-1	Levey Well	Total/NA	Water	300.0	
MB 860-125624/3	Method Blank	Total/NA	Water	300.0	
LCS 860-125624/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-125624/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-125624/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 125844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34172-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-125844/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-125844/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-125844/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-125844/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 125988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34172-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	125844
880-34172-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	125844
MB 860-125844/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	125844
LCS 860-125844/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	125844
LCSD 860-125844/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	125844
LLCS 860-125844/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	125844

General Chemistry

Analysis Batch: 121784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34172-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 125794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34172-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-125794/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 880-34172-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 125794 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-125794/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-125794/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 125852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34172-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 125894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34172-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-125894/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-125894/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-125894/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-34172-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-34172-1
Date Collected: 10/09/23 11:30 Matrix: Water
Date Received: 10/09/23 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	125565	NA	EET HOU	10/10/23 16:14
Total/NA	Analysis	300.0		1	125623	RBNS	EET HOU	10/10/23 23:53
Total/NA	Analysis	300.0		1	125624	RBNS	EET HOU	10/10/23 23:53
Total Recoverable	Prep	200.7			125844	AGR	EET HOU	10/11/23 12:13
Total Recoverable	Analysis	200.7 Rev 4.4		1	125988	JDM	EET HOU	10/11/23 20:29
Total Recoverable	Prep	200.7			125844	AGR	EET HOU	10/11/23 12:13
Total Recoverable	Analysis	200.7 Rev 4.4		50	125988	JDM	EET HOU	10/11/23 20:40
Total/NA	Analysis	SM 1030E		1	121784	SC	EET HOU	10/12/23 08:15
Total/NA	Analysis	SM 2320B		1	125894	KEG	EET HOU	10/11/23 14:30
Total/NA	Analysis	SM 2540C		1	125794	SA	EET HOU	10/11/23 09:34
Total/NA	Analysis	SM 4500 H+ B		1	125852	KEG	EET HOU	10/11/23 12:40

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: 880-34172-1
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	T104704215-23-53	06-30-24
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
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: 880-34172-1
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: 880-34172-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34172-1	Levey Well	Water	10/09/23 11:30	10/09/23 14:45

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- 13
- 14



M



880-34172 Chain of Custody

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

[illegible]

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions	Cations	pH	Alkalinity	TDS	Sample Comments
Levey Well	GW	10-9-23	1130	-		X	X	X	X	X	X	24 Hr
10-9-23 1130												

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	Texas 11 Sb As Ba Be B Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	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
		10/9/23			
		1445			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-34172-1

SDG Number: Hobbs NM

Login Number: 34172

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-34172-1

SDG Number: Hobbs NM

Login Number: 34172

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 10/10/23 12:56 PM

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/23/2023 4:44:25 PM

JOB DESCRIPTION

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

JOB NUMBER

880-34545-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
10/23/2023 4:44:25 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: 880-34545-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-34545-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

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

Job ID: 880-34545-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-34545-1
SDG: Hobbs NM

Job ID: 880-34545-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-34545-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 10/17/2023 3:30 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 3.5°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-126864 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 860-126937 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_ORGFM_28D: The instrument blank/CCB for analytical batch 860-126937 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

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

Metals

Method 200.7: Due to the high concentration of Calcium and Magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-127068 and analytical batch 860-127270 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

Method 2320B: The instrument blank/CCB for analytical batch 860-127160 contained Alkalinity and Bicarbonate Alkalinity as CaCO₃ greater than the reporting limit (RL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

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

Client Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-34545-1

Date Collected: 10/17/23 10:15

Matrix: Water

Date Received: 10/17/23 15:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00364		0.00100	0.000460	mg/L		10/18/23 19:36	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		10/18/23 19:36	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		10/18/23 19:36	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		10/18/23 19:36	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		10/18/23 19:36	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		10/18/23 19:36	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		10/18/23 19:36	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		10/18/23 19:36	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		10/18/23 19:36	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		10/18/23 19:36	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		10/18/23 19:36	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		10/18/23 19:36	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		10/18/23 19:36	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		10/18/23 19:36	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		10/18/23 19:36	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		10/18/23 19:36	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		10/18/23 19:36	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		10/18/23 19:36	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		10/18/23 19:36	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		10/18/23 19:36	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		10/18/23 19:36	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		10/18/23 19:36	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		10/18/23 19:36	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		10/18/23 19:36	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		10/18/23 19:36	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		10/18/23 19:36	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		10/18/23 19:36	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		10/18/23 19:36	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		10/18/23 19:36	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		10/18/23 19:36	1
Ethylbenzene	0.0135		0.00100	0.000385	mg/L		10/18/23 19:36	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		10/18/23 19:36	1
Isopropylbenzene	0.00644		0.00100	0.000592	mg/L		10/18/23 19:36	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		10/18/23 19:36	1
m,p-Xylenes	0.0571		0.0100	0.00124	mg/L		10/18/23 19:36	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		10/18/23 19:36	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		10/18/23 19:36	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		10/18/23 19:36	1
N-Propylbenzene	0.00298		0.00100	0.000429	mg/L		10/18/23 19:36	1
o-Xylene	0.00940		0.00100	0.000502	mg/L		10/18/23 19:36	1
p-Cymene (p-Isopropyltoluene)	0.000820	J	0.00100	0.000676	mg/L		10/18/23 19:36	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		10/18/23 19:36	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		10/18/23 19:36	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		10/18/23 19:36	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		10/18/23 19:36	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		10/18/23 19:36	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		10/18/23 19:36	1
Toluene	0.0270		0.00100	0.000475	mg/L		10/18/23 19:36	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		10/18/23 19:36	1

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Client Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-34545-1
Date Collected: 10/17/23 10:15 Matrix: Water
Date Received: 10/17/23 15:30

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			10/18/23 19:36	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			10/18/23 19:36	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			10/18/23 19:36	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			10/18/23 19:36	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			10/18/23 19:36	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			10/18/23 19:36	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			10/18/23 19:36	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			10/18/23 19:36	1
1,2,4-Trimethylbenzene	0.0141		0.00100	0.000417 mg/L			10/18/23 19:36	1
1,3,5-Trimethylbenzene	0.00410		0.00100	0.000411 mg/L			10/18/23 19:36	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			10/18/23 19:36	1
Xylenes, Total	0.0665		0.0100	0.00124 mg/L			10/18/23 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		74 - 124				10/18/23 19:36	1
Dibromofluoromethane (Surr)	92		75 - 131				10/18/23 19:36	1
1,2-Dichloroethane-d4 (Surr)	95		63 - 144				10/18/23 19:36	1
Toluene-d8 (Surr)	100		80 - 120				10/18/23 19:36	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.543		0.500	0.0711 mg/L			10/18/23 21:24	1
Nitrate as N	0.156		0.100	0.0391 mg/L			10/18/23 21:24	1
Chloride	220		0.500	0.250 mg/L			10/18/23 21:24	1
Nitrite as N	0.415		0.100	0.0293 mg/L			10/18/23 21:24	1
Fluoride	0.363	J	0.500	0.100 mg/L			10/18/23 21:24	1
Sulfate	50.0		0.500	0.200 mg/L			10/18/23 21:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	337		10.0	5.76 mg/L		10/19/23 09:30	10/19/23 14:25	50
Magnesium	65.9		0.200	0.0428 mg/L		10/19/23 09:30	10/19/23 14:07	1
Potassium	5.23		0.500	0.0914 mg/L		10/19/23 09:30	10/19/23 14:07	1
Sodium	105		0.500	0.152 mg/L		10/19/23 09:30	10/19/23 14:07	1
SiO2	84.1		1.07	0.471 mg/L		10/19/23 09:30	10/19/23 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	5.00			%			10/20/23 12:16	1
Alkalinity (SM 2320B)	714	^2	4.00	4.00 mg/L			10/19/23 13:47	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	714	^2	4.00	4.00 mg/L			10/19/23 13:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			10/19/23 13:47	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			10/19/23 13:47	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			10/19/23 13:47	1
Total Dissolved Solids (SM 2540C)	1300		20.0	20.0 mg/L			10/19/23 09:36	1
pH (SM 4500 H+ B)	6.3	HF		SU			10/19/23 13:27	1
Temperature (SM 4500 H+ B)	16.3	HF		Degrees C			10/19/23 13:27	1

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Surrogate Summary

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

Job ID: 880-34545-1
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 (80-120)
880-34545-1	Levey Well	111	92	95	100
LCS 860-126864/3	Lab Control Sample	104	99	97	101
LCSD 860-126864/4	Lab Control Sample Dup	100	91	79	98
MB 860-126864/9	Method Blank	98	102	103	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-126864/9

Matrix: Water

Analysis Batch: 126864

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			10/18/23 15:10	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			10/18/23 15:10	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			10/18/23 15:10	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			10/18/23 15:10	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			10/18/23 15:10	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			10/18/23 15:10	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			10/18/23 15:10	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			10/18/23 15:10	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			10/18/23 15:10	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			10/18/23 15:10	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			10/18/23 15:10	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			10/18/23 15:10	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			10/18/23 15:10	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			10/18/23 15:10	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			10/18/23 15:10	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			10/18/23 15:10	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			10/18/23 15:10	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			10/18/23 15:10	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			10/18/23 15:10	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			10/18/23 15:10	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			10/18/23 15:10	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			10/18/23 15:10	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			10/18/23 15:10	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			10/18/23 15:10	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			10/18/23 15:10	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			10/18/23 15:10	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			10/18/23 15:10	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			10/18/23 15:10	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			10/18/23 15:10	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			10/18/23 15:10	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			10/18/23 15:10	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			10/18/23 15:10	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			10/18/23 15:10	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			10/18/23 15:10	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			10/18/23 15:10	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			10/18/23 15:10	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			10/18/23 15:10	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			10/18/23 15:10	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			10/18/23 15:10	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			10/18/23 15:10	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			10/18/23 15:10	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			10/18/23 15:10	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			10/18/23 15:10	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			10/18/23 15:10	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			10/18/23 15:10	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			10/18/23 15:10	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			10/18/23 15:10	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			10/18/23 15:10	1

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QC Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-126864/9

Matrix: Water

Analysis Batch: 126864

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	<0.000368	U	0.00100	0.000368 mg/L			10/18/23 15:10	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			10/18/23 15:10	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			10/18/23 15:10	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			10/18/23 15:10	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			10/18/23 15:10	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			10/18/23 15:10	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			10/18/23 15:10	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			10/18/23 15:10	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			10/18/23 15:10	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			10/18/23 15:10	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			10/18/23 15:10	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			10/18/23 15:10	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			10/18/23 15:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124				10/18/23 15:10	1
Dibromofluoromethane (Surr)	102		75 - 131				10/18/23 15:10	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144				10/18/23 15:10	1
Toluene-d8 (Surr)	100		80 - 120				10/18/23 15:10	1

Lab Sample ID: LCS 860-126864/3

Matrix: Water

Analysis Batch: 126864

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	0.04959		mg/L		99	75 - 125
Bromobenzene	0.0500	0.05306		mg/L		106	75 - 125
Bromochloromethane	0.0500	0.05080		mg/L		102	60 - 140
Bromodichloromethane	0.0500	0.04944		mg/L		99	75 - 125
Bromoform	0.0500	0.05041		mg/L		101	70 - 130
Bromomethane	0.0500	0.04326		mg/L		87	60 - 140
2-Butanone	0.250	0.2512		mg/L		100	60 - 140
Carbon tetrachloride	0.0500	0.05053		mg/L		101	70 - 130
Chlorobenzene	0.0500	0.05008		mg/L		100	65 - 135
Chloroethane	0.0500	0.04759		mg/L		95	60 - 140
Chloroform	0.0500	0.04971		mg/L		99	70 - 121
Chloromethane	0.0500	0.05117		mg/L		102	60 - 140
2-Chlorotoluene	0.0500	0.05397		mg/L		108	73 - 125
4-Chlorotoluene	0.0500	0.05435		mg/L		109	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05036		mg/L		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05250		mg/L		105	74 - 125
Dibromochloromethane	0.0500	0.05055		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05163		mg/L		103	59 - 125
1,2-Dibromoethane	0.0500	0.05063		mg/L		101	73 - 125
1,2-Dichlorobenzene	0.0500	0.05337		mg/L		107	75 - 125
1,3-Dichlorobenzene	0.0500	0.05361		mg/L		107	75 - 125
1,4-Dichlorobenzene	0.0500	0.05259		mg/L		105	75 - 125
Dichlorodifluoromethane	0.0500	0.05685		mg/L		114	50 - 150

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QC Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-126864/3

Matrix: Water

Analysis Batch: 126864

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	0.05206		mg/L		104	70 - 130
1,2-Dichloroethane	0.0500	0.04918		mg/L		98	72 - 130
1,1-Dichloroethene	0.0500	0.05789		mg/L		116	50 - 150
1,2-Dichloropropane	0.0500	0.05079		mg/L		102	74 - 125
1,3-Dichloropropane	0.0500	0.05027		mg/L		101	75 - 125
2,2-Dichloropropane	0.0500	0.05578		mg/L		112	75 - 125
1,1-Dichloropropene	0.0500	0.05089		mg/L		102	75 - 125
Ethylbenzene	0.0500	0.05211		mg/L		104	75 - 125
Hexachlorobutadiene	0.0500	0.05437		mg/L		109	75 - 125
Isopropylbenzene	0.0500	0.05359		mg/L		107	75 - 125
Methylene Chloride	0.0500	0.05726		mg/L		115	71 - 125
m,p-Xylenes	0.0500	0.05219		mg/L		104	75 - 125
MTBE	0.0500	0.05701		mg/L		114	65 - 135
Naphthalene	0.0500	0.05594		mg/L		112	70 - 130
n-Butylbenzene	0.0500	0.05558		mg/L		111	75 - 125
N-Propylbenzene	0.0500	0.05563		mg/L		111	75 - 125
o-Xylene	0.0500	0.05309		mg/L		106	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05648		mg/L		113	75 - 125
sec-Butylbenzene	0.0500	0.05569		mg/L		111	75 - 125
Styrene	0.0500	0.05344		mg/L		107	75 - 125
tert-Butylbenzene	0.0500	0.05564		mg/L		111	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05109		mg/L		102	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05111		mg/L		102	74 - 125
Tetrachloroethene	0.0500	0.05201		mg/L		104	71 - 125
Toluene	0.0500	0.05092		mg/L		102	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05597		mg/L		112	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05224		mg/L		104	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05527		mg/L		111	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05531		mg/L		111	75 - 135
1,1,1-Trichloroethane	0.0500	0.05076		mg/L		102	70 - 130
1,1,2-Trichloroethane	0.0500	0.04981		mg/L		100	70 - 130
Trichloroethene	0.0500	0.05011		mg/L		100	75 - 135
Trichlorofluoromethane	0.0500	0.06168		mg/L		123	60 - 140
1,2,3-Trichloropropane	0.0500	0.05243		mg/L		105	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05623		mg/L		112	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05464		mg/L		109	60 - 140
Vinyl chloride	0.0500	0.05321		mg/L		106	60 - 140
	LCS LCS						
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		74 - 124				
Dibromofluoromethane (Surr)	99		75 - 131				
1,2-Dichloroethane-d4 (Surr)	97		63 - 144				
Toluene-d8 (Surr)	101		80 - 120				

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QC Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-126864/4

Matrix: Water

Analysis Batch: 126864

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	0.03964		mg/L		79	75 - 125	22	25
Bromobenzene	0.0500	0.04558		mg/L		91	75 - 125	15	25
Bromochloromethane	0.0500	0.04601		mg/L		92	60 - 140	10	25
Bromodichloromethane	0.0500	0.04668		mg/L		93	75 - 125	6	25
Bromoform	0.0500	0.04742		mg/L		95	70 - 130	6	25
Bromomethane	0.0500	0.04853		mg/L		97	60 - 140	11	25
2-Butanone	0.250	0.2195		mg/L		88	60 - 140	13	25
Carbon tetrachloride	0.0500	0.04606		mg/L		92	70 - 130	9	25
Chlorobenzene	0.0500	0.04566		mg/L		91	65 - 135	9	25
Chloroethane	0.0500	0.05181		mg/L		104	60 - 140	8	25
Chloroform	0.0500	0.04263		mg/L		85	70 - 121	15	25
Chloromethane	0.0500	0.05523		mg/L		110	60 - 140	8	25
2-Chlorotoluene	0.0500	0.04642		mg/L		93	73 - 125	15	25
4-Chlorotoluene	0.0500	0.04645		mg/L		93	74 - 125	16	25
cis-1,2-Dichloroethene	0.0500	0.04217		mg/L		84	75 - 125	18	25
cis-1,3-Dichloropropene	0.0500	0.05016		mg/L		100	74 - 125	5	25
Dibromochloromethane	0.0500	0.04676		mg/L		94	73 - 125	8	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04653		mg/L		93	59 - 125	10	25
1,2-Dibromoethane	0.0500	0.04801		mg/L		96	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04586		mg/L		92	75 - 125	15	25
1,3-Dichlorobenzene	0.0500	0.04589		mg/L		92	75 - 125	16	25
1,4-Dichlorobenzene	0.0500	0.04508		mg/L		90	75 - 125	15	25
Dichlorodifluoromethane	0.0500	0.05927		mg/L		119	50 - 150	4	25
1,1-Dichloroethane	0.0500	0.05424		mg/L		108	70 - 130	4	25
1,2-Dichloroethane	0.0500	0.04051		mg/L		81	72 - 130	19	25
1,1-Dichloroethene	0.0500	0.04744		mg/L		95	50 - 150	20	25
1,2-Dichloropropane	0.0500	0.04738		mg/L		95	74 - 125	7	25
1,3-Dichloropropane	0.0500	0.04703		mg/L		94	75 - 125	7	25
2,2-Dichloropropane	0.0500	0.04800		mg/L		96	75 - 125	15	25
1,1-Dichloropropene	0.0500	0.04328		mg/L		87	75 - 125	16	25
Ethylbenzene	0.0500	0.04772		mg/L		95	75 - 125	9	25
Hexachlorobutadiene	0.0500	0.04652		mg/L		93	75 - 125	16	25
Isopropylbenzene	0.0500	0.04872		mg/L		97	75 - 125	10	25
Methylene Chloride	0.0500	0.05832		mg/L		117	71 - 125	2	25
m,p-Xylenes	0.0500	0.04787		mg/L		96	75 - 125	9	25
MTBE	0.0500	0.06136		mg/L		123	65 - 135	7	25
Naphthalene	0.0500	0.04975		mg/L		99	70 - 130	12	25
n-Butylbenzene	0.0500	0.04728		mg/L		95	75 - 125	16	25
N-Propylbenzene	0.0500	0.04714		mg/L		94	75 - 125	17	25
o-Xylene	0.0500	0.04858		mg/L		97	75 - 125	9	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04834		mg/L		97	75 - 125	16	25
sec-Butylbenzene	0.0500	0.04717		mg/L		94	75 - 125	17	25
Styrene	0.0500	0.04893		mg/L		98	75 - 125	9	25
tert-Butylbenzene	0.0500	0.04785		mg/L		96	75 - 125	15	25
1,1,1,2-Tetrachloroethane	0.0500	0.04698		mg/L		94	72 - 125	8	25
1,1,2,2-Tetrachloroethane	0.0500	0.04486		mg/L		90	74 - 125	13	25
Tetrachloroethene	0.0500	0.04742		mg/L		95	71 - 125	9	25
Toluene	0.0500	0.04624		mg/L		92	70 - 130	10	25

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QC Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-126864/4

Matrix: Water

Analysis Batch: 126864

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	0.05833		mg/L		117	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.04894		mg/L		98	66 - 125	7	25
1,2,3-Trichlorobenzene	0.0500	0.04791		mg/L		96	75 - 137	14	25
1,2,4-Trichlorobenzene	0.0500	0.04765		mg/L		95	75 - 135	15	25
1,1,1-Trichloroethane	0.0500	0.04487		mg/L		90	70 - 130	12	25
1,1,2-Trichloroethane	0.0500	0.04625		mg/L		92	70 - 130	7	25
Trichloroethene	0.0500	0.04751		mg/L		95	75 - 135	5	25
Trichlorofluoromethane	0.0500	0.06511		mg/L		130	60 - 140	5	25
1,2,3-Trichloropropane	0.0500	0.04637		mg/L		93	75 - 125	12	25
1,2,4-Trimethylbenzene	0.0500	0.04806		mg/L		96	75 - 125	16	25
1,3,5-Trimethylbenzene	0.0500	0.04688		mg/L		94	60 - 140	15	25
Vinyl chloride	0.0500	0.05453		mg/L		109	60 - 140	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	91		75 - 131
1,2-Dichloroethane-d4 (Surr)	79		63 - 144
Toluene-d8 (Surr)	98		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-126937/3

Matrix: Water

Analysis Batch: 126937

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			10/18/23 11:09	1
Chloride	<0.250	U	0.500	0.250 mg/L			10/18/23 11:09	1
Fluoride	<0.100	U	0.500	0.100 mg/L			10/18/23 11:09	1
Sulfate	<0.200	U	0.500	0.200 mg/L			10/18/23 11:09	1

Lab Sample ID: LCS 860-126937/4

Matrix: Water

Analysis Batch: 126937

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	10.12		mg/L		101	90 - 110
Chloride	10.0	10.04		mg/L		100	90 - 110
Fluoride	10.0	10.57		mg/L		106	90 - 110
Sulfate	10.0	10.04		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-126937/5

Matrix: Water

Analysis Batch: 126937

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	10.26		mg/L		103	90 - 110	1	20
Chloride	10.0	10.05		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.64		mg/L		106	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-126937/5

Matrix: Water

Analysis Batch: 126937

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	10.11		mg/L		101	90 - 110	1	20

Lab Sample ID: LLCS 860-126937/6

Matrix: Water

Analysis Batch: 126937

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	0.5856		mg/L		117	50 - 150		
Chloride	0.500	0.5501		mg/L		110	50 - 150		
Fluoride	0.500	0.3496	J	mg/L		70	50 - 150		
Sulfate	0.500	0.4101	J	mg/L		82	50 - 150		

Lab Sample ID: MB 860-126938/3

Matrix: Water

Analysis Batch: 126938

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			10/18/23 11:09	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			10/18/23 11:09	1

Lab Sample ID: LCS 860-126938/4

Matrix: Water

Analysis Batch: 126938

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		100	80 - 120		
Nitrite as N	10.0	9.992		mg/L		100	80 - 120		

Lab Sample ID: LCSD 860-126938/5

Matrix: Water

Analysis Batch: 126938

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	10.07		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	10.02		mg/L		100	80 - 120	0	20

Lab Sample ID: LLCS 860-126938/7

Matrix: Water

Analysis Batch: 126938

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	0.1189		mg/L		119	50 - 150		
Nitrite as N	0.100	0.08363	J	mg/L		84	50 - 150		

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QC Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-127068/1-A

Matrix: Water

Analysis Batch: 127270

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 127068

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		10/19/23 09:30	10/19/23 13:57	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		10/19/23 09:30	10/19/23 13:57	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		10/19/23 09:30	10/19/23 13:57	1
Sodium	<0.152	U	0.500	0.152 mg/L		10/19/23 09:30	10/19/23 13:57	1
SiO2	<0.471	U	1.07	0.471 mg/L		10/19/23 09:30	10/19/23 13:57	1

Lab Sample ID: LCS 860-127068/2-A

Matrix: Water

Analysis Batch: 127270

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 127068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.50		mg/L		102	85 - 115
Magnesium	25.0	25.80		mg/L		103	85 - 115
Potassium	10.0	10.20		mg/L		102	85 - 115
Sodium	25.0	26.00		mg/L		104	85 - 115
SiO2	21.4	23.11		mg/L		108	85 - 115

Lab Sample ID: LCSD 860-127068/3-A

Matrix: Water

Analysis Batch: 127270

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 127068

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.50		mg/L		102	85 - 115	0	20
Magnesium	25.0	25.90		mg/L		104	85 - 115	0	20
Potassium	10.0	10.20		mg/L		102	85 - 115	0	20
Sodium	25.0	26.00		mg/L		104	85 - 115	0	20
SiO2	21.4	23.11		mg/L		108	85 - 115	0	20

Lab Sample ID: LLCS 860-127068/4-A

Matrix: Water

Analysis Batch: 127270

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 127068

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1950	J	mg/L		98	50 - 150
Magnesium	0.200	0.2170		mg/L		109	50 - 150
Potassium	0.500	0.3810	J	mg/L		76	50 - 150
Sodium	0.500	0.4370	J	mg/L		87	50 - 150
SiO2	1.07	1.254		mg/L		117	50 - 150

Lab Sample ID: 880-34545-1 MS

Matrix: Water

Analysis Batch: 127270

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 127068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	324	E	25.0	345.0	E 4	mg/L		84	70 - 130
Magnesium	65.9		25.0	95.00	E	mg/L		116	70 - 130
Potassium	5.23		10.0	17.90		mg/L		127	70 - 130
Sodium	105		25.0	133.0	4	mg/L		112	70 - 130
SiO2	84.1		21.4	110.0		mg/L		121	70 - 130

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QC Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

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

Lab Sample ID: 880-34545-1 MSD

Matrix: Water

Analysis Batch: 127270

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 127068

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	324	E	25.0	349.0	E 4	mg/L		100	70 - 130	1	20
Magnesium	65.9		25.0	95.90	E	mg/L		120	70 - 130	1	20
Potassium	5.23		10.0	18.10		mg/L		129	70 - 130	1	20
Sodium	105		25.0	134.0	4	mg/L		116	70 - 130	1	20
SiO2	84.1		21.4	110.6		mg/L		124	70 - 130	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-127160/3

Matrix: Water

Analysis Batch: 127160

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			10/19/23 10:05	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			10/19/23 10:05	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			10/19/23 10:05	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			10/19/23 10:05	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			10/19/23 10:05	1

Lab Sample ID: LCS 860-127160/4

Matrix: Water

Analysis Batch: 127160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 860-127160/5

Matrix: Water

Analysis Batch: 127160

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
							Limits		
Alkalinity	250	254.7		mg/L		102	85 - 115	0	20

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

Lab Sample ID: MB 860-127065/1

Matrix: Water

Analysis Batch: 127065

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			10/19/23 09:36	1

Lab Sample ID: LCS 860-127065/2

Matrix: Water

Analysis Batch: 127065

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
							Limits
Total Dissolved Solids	1000	997.0		mg/L		100	80 - 120

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QC Sample Results

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

Job ID: 880-34545-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-127065/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 127065											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1052		mg/L		105	80 - 120	5	10

Lab Sample ID: 880-34545-1 DU				Client Sample ID: Levey Well							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 127065											
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1300			1276		mg/L				2	10

QC Association Summary

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

Job ID: 880-34545-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 126864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34545-1	Levey Well	Total/NA	Water	8260C	
MB 860-126864/9	Method Blank	Total/NA	Water	8260C	
LCS 860-126864/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-126864/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 126937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34545-1	Levey Well	Total/NA	Water	300.0	
MB 860-126937/3	Method Blank	Total/NA	Water	300.0	
LCS 860-126937/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-126937/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-126937/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 126938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34545-1	Levey Well	Total/NA	Water	300.0	
MB 860-126938/3	Method Blank	Total/NA	Water	300.0	
LCS 860-126938/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-126938/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-126938/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 127068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34545-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-127068/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-127068/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-127068/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-127068/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-34545-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-34545-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 127270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34545-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	127068
880-34545-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	127068
MB 860-127068/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	127068
LCS 860-127068/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	127068
LCSD 860-127068/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	127068
LLCS 860-127068/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	127068
880-34545-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	127068
880-34545-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	127068

General Chemistry

Analysis Batch: 127065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34545-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-127065/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 880-34545-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 127065 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-127065/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-127065/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-34545-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 127160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34545-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-127160/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-127160/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-127160/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 127163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34545-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 127324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34545-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-34545-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-34545-1

Date Collected: 10/17/23 10:15

Matrix: Water

Date Received: 10/17/23 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	126864	NA	EET HOU	10/18/23 19:36
Total/NA	Analysis	300.0		1	126937	A1S	EET HOU	10/18/23 21:24
Total/NA	Analysis	300.0		1	126938	A1S	EET HOU	10/18/23 21:24
Total Recoverable	Prep	200.7			127068	MD	EET HOU	10/19/23 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	127270	JDM	EET HOU	10/19/23 14:07
Total Recoverable	Prep	200.7			127068	MD	EET HOU	10/19/23 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	127270	JDM	EET HOU	10/19/23 14:25
Total/NA	Analysis	SM 1030E		1	127324	MC	EET HOU	10/20/23 12:16
Total/NA	Analysis	SM 2320B		1	127160	KEG	EET HOU	10/19/23 13:47
Total/NA	Analysis	SM 2540C		1	127065	SA	EET HOU	10/19/23 09:36
Total/NA	Analysis	SM 4500 H+ B		1	127163	KEG	EET HOU	10/19/23 13:27

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: 880-34545-1
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	T104704215-23-53	06-30-24
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
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: 880-34545-1
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: 880-34545-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34545-1	Levey Well	Water	10/17/23 10:15	10/17/23 15:30

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10/23/2023

Eurofins Midland

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

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-34545-1

SDG Number: Hobbs NM

Login Number: 34545

List Number: 1

Creator: Teel, Brianna

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: 880-34545-1

SDG Number: Hobbs NM

Login Number: 34545

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 10/18/23 01:21 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/31/2023 10:08:52 AM

JOB DESCRIPTION

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

JOB NUMBER

880-34788-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
10/31/2023 10:08:52 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: 880-34788-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-34788-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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)

Definitions/Glossary

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

Job ID: 880-34788-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-34788-1
SDG: Hobbs NM

Job ID: 880-34788-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-34788-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 10/24/2023 8:36 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 1.8°C

GC/MS VOA

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-127851 recovered outside control limits for the following analytes: Hexachlorobutadiene These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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 860-127966 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_ORGFM_28D: The instrument blank/CCB for analytical batch 860-127966 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-127967 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 following sample(s) was received with less than 2 hours remaining on the holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: Levey Well (880-34788-1).

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

Metals

Method 200.7: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-128099 and analytical batch 860-128307 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

Method 2320B: The instrument blank/CCB for analytical batch 860-128215 contained Alkalinity and Bicarbonate Alkalinity as CaCO₃ greater than the reporting limit (RL), and were not reanalyzed because associated sample(s) results were greater than 10X the value

Case Narrative

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

Job ID: 880-34788-1
SDG: Hobbs NM

Job ID: 880-34788-1 (Continued)

Laboratory: Eurofins Midland (Continued)

found in the instrument blank/CCB. The data have been qualified and reported.

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

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Client Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-34788-1

Date Collected: 10/23/23 15:00

Matrix: Water

Date Received: 10/24/23 08:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			10/25/23 17:16	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			10/25/23 17:16	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			10/25/23 17:16	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			10/25/23 17:16	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			10/25/23 17:16	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			10/25/23 17:16	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			10/25/23 17:16	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			10/25/23 17:16	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			10/25/23 17:16	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			10/25/23 17:16	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			10/25/23 17:16	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			10/25/23 17:16	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			10/25/23 17:16	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			10/25/23 17:16	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			10/25/23 17:16	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			10/25/23 17:16	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			10/25/23 17:16	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			10/25/23 17:16	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			10/25/23 17:16	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			10/25/23 17:16	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			10/25/23 17:16	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			10/25/23 17:16	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			10/25/23 17:16	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			10/25/23 17:16	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			10/25/23 17:16	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			10/25/23 17:16	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			10/25/23 17:16	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			10/25/23 17:16	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			10/25/23 17:16	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			10/25/23 17:16	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			10/25/23 17:16	1
Hexachlorobutadiene	<0.000627	U *	0.00500	0.000627 mg/L			10/25/23 17:16	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			10/25/23 17:16	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			10/25/23 17:16	1
m,p-Xylenes	0.00137	J	0.0100	0.00124 mg/L			10/25/23 17:16	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			10/25/23 17:16	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			10/25/23 17:16	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			10/25/23 17:16	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			10/25/23 17:16	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			10/25/23 17:16	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			10/25/23 17:16	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			10/25/23 17:16	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			10/25/23 17:16	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			10/25/23 17:16	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			10/25/23 17:16	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			10/25/23 17:16	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			10/25/23 17:16	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			10/25/23 17:16	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			10/25/23 17:16	1

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Client Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-34788-1
Date Collected: 10/23/23 15:00 Matrix: Water
Date Received: 10/24/23 08:36

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			10/25/23 17:16	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			10/25/23 17:16	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			10/25/23 17:16	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			10/25/23 17:16	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			10/25/23 17:16	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			10/25/23 17:16	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			10/25/23 17:16	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			10/25/23 17:16	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			10/25/23 17:16	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			10/25/23 17:16	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			10/25/23 17:16	1
Xylenes, Total	0.00137	J	0.0100	0.00124 mg/L			10/25/23 17:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124				10/25/23 17:16	1
Dibromofluoromethane (Surr)	96		75 - 131				10/25/23 17:16	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144				10/25/23 17:16	1
Toluene-d8 (Surr)	99		80 - 120				10/25/23 17:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.261	J	0.500	0.0711 mg/L			10/25/23 16:09	1
Nitrate as N	0.0867	J H	0.100	0.0391 mg/L			10/25/23 16:09	1
Chloride	225		0.500	0.250 mg/L			10/25/23 16:09	1
Nitrite as N	<0.0293	U H	0.100	0.0293 mg/L			10/25/23 16:09	1
Fluoride	0.414	J	0.500	0.100 mg/L			10/25/23 16:09	1
Sulfate	44.5		0.500	0.200 mg/L			10/25/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	189		10.0	5.76 mg/L		10/26/23 09:00	10/26/23 14:55	50
Magnesium	39.8		0.200	0.0428 mg/L		10/26/23 09:00	10/26/23 14:42	1
Potassium	2.65		0.500	0.0914 mg/L		10/26/23 09:00	10/26/23 14:42	1
Sodium	73.2		0.500	0.152 mg/L		10/26/23 09:00	10/26/23 14:42	1
SiO2	64.4		1.07	0.471 mg/L		10/26/23 09:00	10/26/23 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-5.00			%			10/30/23 12:16	1
Alkalinity (SM 2320B)	410	^2	4.00	4.00 mg/L			10/26/23 13:31	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	410	^2	4.00	4.00 mg/L			10/26/23 13:31	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			10/26/23 13:31	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			10/26/23 13:31	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			10/26/23 13:31	1
Total Dissolved Solids (SM 2540C)	1170		10.0	10.0 mg/L			10/26/23 09:51	1
pH (SM 4500 H+ B)	6.8	HF		SU			10/25/23 16:55	1
Temperature (SM 4500 H+ B)	18.3	HF		Degrees C			10/25/23 16:55	1

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Surrogate Summary

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

Job ID: 880-34788-1
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)	(80-120)
880-34788-1	Levey Well	98	96	101	99
LCS 860-127851/3	Lab Control Sample	96	96	94	99
LCSD 860-127851/4	Lab Control Sample Dup	95	95	95	98
MB 860-127851/10	Method Blank	103	97	99	98
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-127851/10

Matrix: Water

Analysis Batch: 127851

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			10/25/23 12:15	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			10/25/23 12:15	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			10/25/23 12:15	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			10/25/23 12:15	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			10/25/23 12:15	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			10/25/23 12:15	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			10/25/23 12:15	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			10/25/23 12:15	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			10/25/23 12:15	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			10/25/23 12:15	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			10/25/23 12:15	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			10/25/23 12:15	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			10/25/23 12:15	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			10/25/23 12:15	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			10/25/23 12:15	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			10/25/23 12:15	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			10/25/23 12:15	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			10/25/23 12:15	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			10/25/23 12:15	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			10/25/23 12:15	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			10/25/23 12:15	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			10/25/23 12:15	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			10/25/23 12:15	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			10/25/23 12:15	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			10/25/23 12:15	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			10/25/23 12:15	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			10/25/23 12:15	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			10/25/23 12:15	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			10/25/23 12:15	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			10/25/23 12:15	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			10/25/23 12:15	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			10/25/23 12:15	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			10/25/23 12:15	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			10/25/23 12:15	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			10/25/23 12:15	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			10/25/23 12:15	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			10/25/23 12:15	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			10/25/23 12:15	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			10/25/23 12:15	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			10/25/23 12:15	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			10/25/23 12:15	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			10/25/23 12:15	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			10/25/23 12:15	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			10/25/23 12:15	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			10/25/23 12:15	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			10/25/23 12:15	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			10/25/23 12:15	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			10/25/23 12:15	1

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QC Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-127851/10

Matrix: Water

Analysis Batch: 127851

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	<0.000368	U	0.00100	0.000368	mg/L		10/25/23 12:15	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		10/25/23 12:15	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		10/25/23 12:15	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		10/25/23 12:15	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		10/25/23 12:15	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		10/25/23 12:15	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L		10/25/23 12:15	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		10/25/23 12:15	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		10/25/23 12:15	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		10/25/23 12:15	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		10/25/23 12:15	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		10/25/23 12:15	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		10/25/23 12:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124				10/25/23 12:15	1
Dibromofluoromethane (Surr)	97		75 - 131				10/25/23 12:15	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				10/25/23 12:15	1
Toluene-d8 (Surr)	98		80 - 120				10/25/23 12:15	1

Lab Sample ID: LCS 860-127851/3

Matrix: Water

Analysis Batch: 127851

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	0.05176		mg/L		104	75 - 125
Bromochloromethane	0.0500	0.04086		mg/L		82	60 - 140
Bromodichloromethane	0.0500	0.04856		mg/L		97	75 - 125
Bromoform	0.0500	0.05242		mg/L		105	70 - 130
Bromomethane	0.0500	0.04978		mg/L		100	60 - 140
2-Butanone	0.250	0.1916		mg/L		77	60 - 140
Carbon tetrachloride	0.0500	0.04837		mg/L		97	70 - 130
Chlorobenzene	0.0500	0.04862		mg/L		97	65 - 135
Chloroethane	0.0500	0.04394		mg/L		88	60 - 140
Chloroform	0.0500	0.04622		mg/L		92	70 - 121
Chloromethane	0.0500	0.04404		mg/L		88	60 - 140
2-Chlorotoluene	0.0500	0.04855		mg/L		97	73 - 125
4-Chlorotoluene	0.0500	0.04872		mg/L		97	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04422		mg/L		88	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04827		mg/L		97	74 - 125
Dibromochloromethane	0.0500	0.05151		mg/L		103	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05687		mg/L		114	59 - 125
1,2-Dibromoethane	0.0500	0.05025		mg/L		101	73 - 125
1,2-Dichlorobenzene	0.0500	0.05108		mg/L		102	75 - 125
1,3-Dichlorobenzene	0.0500	0.05097		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.05052		mg/L		101	75 - 125
Dichlorodifluoromethane	0.0500	0.04008		mg/L		80	50 - 150

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QC Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-127851/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 127851							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04311		mg/L		86	70 - 130
1,2-Dichloroethane	0.0500	0.04853		mg/L		97	72 - 130
1,1-Dichloroethene	0.0500	0.05251		mg/L		105	50 - 150
1,2-Dichloropropane	0.0500	0.04627		mg/L		93	74 - 125
1,3-Dichloropropane	0.0500	0.04745		mg/L		95	75 - 125
2,2-Dichloropropane	0.0500	0.04917		mg/L		98	75 - 125
1,1-Dichloropropene	0.0500	0.04661		mg/L		93	75 - 125
Ethylbenzene	0.0500	0.04845		mg/L		97	75 - 125
Hexachlorobutadiene	0.0500	0.05688		mg/L		114	75 - 125
Isopropylbenzene	0.0500	0.04956		mg/L		99	75 - 125
Methylene Chloride	0.0500	0.04834		mg/L		97	71 - 125
m,p-Xylenes	0.0500	0.04818		mg/L		96	75 - 125
MTBE	0.0500	0.04897		mg/L		98	65 - 135
Naphthalene	0.0500	0.05274		mg/L		105	70 - 130
n-Butylbenzene	0.0500	0.04979		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04886		mg/L		98	75 - 125
o-Xylene	0.0500	0.04827		mg/L		97	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05101		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.04980		mg/L		100	75 - 125
Styrene	0.0500	0.04997		mg/L		100	75 - 125
tert-Butylbenzene	0.0500	0.05065		mg/L		101	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05177		mg/L		104	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04732		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.05257		mg/L		105	71 - 125
Toluene	0.0500	0.04872		mg/L		97	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05258		mg/L		105	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04965		mg/L		99	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05364		mg/L		107	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05348		mg/L		107	75 - 135
1,1,1-Trichloroethane	0.0500	0.04882		mg/L		98	70 - 130
1,1,2-Trichloroethane	0.0500	0.04803		mg/L		96	70 - 130
Trichloroethene	0.0500	0.05163		mg/L		103	75 - 135
Trichlorofluoromethane	0.0500	0.05264		mg/L		105	60 - 140
1,2,3-Trichloropropane	0.0500	0.04731		mg/L		95	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04995		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04945		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.04747		mg/L		95	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		74 - 124				
Dibromofluoromethane (Surr)	96		75 - 131				
1,2-Dichloroethane-d4 (Surr)	94		63 - 144				
Toluene-d8 (Surr)	99		80 - 120				

QC Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-127851/4

Matrix: Water

Analysis Batch: 127851

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	0.04580		mg/L		92	75 - 125	2	25
Bromobenzene	0.0500	0.04891		mg/L		98	75 - 125	6	25
Bromochloromethane	0.0500	0.04102		mg/L		82	60 - 140	0	25
Bromodichloromethane	0.0500	0.04807		mg/L		96	75 - 125	1	25
Bromoform	0.0500	0.05222		mg/L		104	70 - 130	0	25
Bromomethane	0.0500	0.04823		mg/L		96	60 - 140	3	25
2-Butanone	0.250	0.1977		mg/L		79	60 - 140	3	25
Carbon tetrachloride	0.0500	0.04622		mg/L		92	70 - 130	5	25
Chlorobenzene	0.0500	0.04739		mg/L		95	65 - 135	3	25
Chloroethane	0.0500	0.04203		mg/L		84	60 - 140	4	25
Chloroform	0.0500	0.04592		mg/L		92	70 - 121	1	25
Chloromethane	0.0500	0.03612		mg/L		72	60 - 140	20	25
2-Chlorotoluene	0.0500	0.04475		mg/L		89	73 - 125	8	25
4-Chlorotoluene	0.0500	0.04649		mg/L		93	74 - 125	5	25
cis-1,2-Dichloroethene	0.0500	0.04356		mg/L		87	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04750		mg/L		95	74 - 125	2	25
Dibromochloromethane	0.0500	0.04995		mg/L		100	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05843		mg/L		117	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.05006		mg/L		100	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.05667		mg/L		113	75 - 125	10	25
1,3-Dichlorobenzene	0.0500	0.04855		mg/L		97	75 - 125	5	25
1,4-Dichlorobenzene	0.0500	0.04851		mg/L		97	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.03612		mg/L		72	50 - 150	10	25
1,1-Dichloroethane	0.0500	0.04242		mg/L		85	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.04828		mg/L		97	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.05530		mg/L		111	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.04528		mg/L		91	74 - 125	2	25
1,3-Dichloropropane	0.0500	0.04714		mg/L		94	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04814		mg/L		96	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.04666		mg/L		93	75 - 125	0	25
Ethylbenzene	0.0500	0.04753		mg/L		95	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.06286	*+	mg/L		126	75 - 125	10	25
Isopropylbenzene	0.0500	0.04893		mg/L		98	75 - 125	1	25
Methylene Chloride	0.0500	0.04844		mg/L		97	71 - 125	0	25
m,p-Xylenes	0.0500	0.04761		mg/L		95	75 - 125	1	25
MTBE	0.0500	0.04736		mg/L		95	65 - 135	3	25
Naphthalene	0.0500	0.05885		mg/L		118	70 - 130	11	25
n-Butylbenzene	0.0500	0.05816		mg/L		116	75 - 125	16	25
N-Propylbenzene	0.0500	0.04597		mg/L		92	75 - 125	6	25
o-Xylene	0.0500	0.04726		mg/L		95	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04903		mg/L		98	75 - 125	4	25
sec-Butylbenzene	0.0500	0.04871		mg/L		97	75 - 125	2	25
Styrene	0.0500	0.04833		mg/L		97	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04833		mg/L		97	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05023		mg/L		100	72 - 125	3	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.04607		mg/L		92	74 - 125	3	25
Tetrachloroethene	0.0500	0.05229		mg/L		105	71 - 125	1	25
Toluene	0.0500	0.04746		mg/L		95	70 - 130	3	25

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QC Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-127851/4

Matrix: Water

Analysis Batch: 127851

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	0.04798		mg/L		96	75 - 125	9	25
trans-1,3-Dichloropropene	0.0500	0.04864		mg/L		97	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05492		mg/L		110	75 - 137	2	25
1,2,4-Trichlorobenzene	0.0500	0.05780		mg/L		116	75 - 135	8	25
1,1,1-Trichloroethane	0.0500	0.04905		mg/L		98	70 - 130	0	25
1,1,2-Trichloroethane	0.0500	0.04806		mg/L		96	70 - 130	0	25
Trichloroethene	0.0500	0.05044		mg/L		101	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05308		mg/L		106	60 - 140	1	25
1,2,3-Trichloropropane	0.0500	0.04614		mg/L		92	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04755		mg/L		95	75 - 125	5	25
1,3,5-Trimethylbenzene	0.0500	0.04729		mg/L		95	60 - 140	4	25
Vinyl chloride	0.0500	0.04550		mg/L		91	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	95		75 - 131
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
Toluene-d8 (Surr)	98		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-127966/3

Matrix: Water

Analysis Batch: 127966

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			10/25/23 15:16	1
Chloride	<0.250	U	0.500	0.250 mg/L			10/25/23 15:16	1
Fluoride	<0.100	U	0.500	0.100 mg/L			10/25/23 15:16	1
Sulfate	<0.200	U	0.500	0.200 mg/L			10/25/23 15:16	1

Lab Sample ID: LCS 860-127966/4

Matrix: Water

Analysis Batch: 127966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	9.970		mg/L		100	90 - 110
Chloride	10.0	9.607		mg/L		96	90 - 110
Fluoride	10.0	10.25		mg/L		103	90 - 110
Sulfate	10.0	10.41		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-127966/5

Matrix: Water

Analysis Batch: 127966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	10.0	9.951		mg/L		100	90 - 110	0	20
Chloride	10.0	9.623		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.26		mg/L		103	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-127966/5

Matrix: Water

Analysis Batch: 127966

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	10.39		mg/L		104	90 - 110	0	20

Lab Sample ID: LLCS 860-127966/7

Matrix: Water

Analysis Batch: 127966

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	0.5060		mg/L		101	50 - 150		
Chloride	0.500	0.5404		mg/L		108	50 - 150		
Fluoride	0.500	0.5767		mg/L		115	50 - 150		
Sulfate	0.500	0.4026	J	mg/L		81	50 - 150		

Lab Sample ID: MB 860-127967/3

Matrix: Water

Analysis Batch: 127967

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			10/25/23 15:16	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			10/25/23 15:16	1

Lab Sample ID: LCS 860-127967/4

Matrix: Water

Analysis Batch: 127967

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	9.946		mg/L		99	80 - 120		
Nitrite as N	10.0	10.36		mg/L		104	80 - 120		

Lab Sample ID: LCSD 860-127967/5

Matrix: Water

Analysis Batch: 127967

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	9.943		mg/L		99	80 - 120	0	20
Nitrite as N	10.0	10.38		mg/L		104	80 - 120	0	20

Lab Sample ID: LLCS 860-127967/6

Matrix: Water

Analysis Batch: 127967

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	0.1096		mg/L		110	50 - 150		
Nitrite as N	0.100	0.07289	J	mg/L		73	50 - 150		

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QC Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-128099/1-A

Matrix: Water

Analysis Batch: 128307

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 128099

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		10/26/23 09:00	10/26/23 14:13	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		10/26/23 09:00	10/26/23 14:13	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		10/26/23 09:00	10/26/23 14:13	1
Sodium	<0.152	U	0.500	0.152 mg/L		10/26/23 09:00	10/26/23 14:13	1
SiO2	<0.471	U	1.07	0.471 mg/L		10/26/23 09:00	10/26/23 14:13	1

Lab Sample ID: LCS 860-128099/2-A

Matrix: Water

Analysis Batch: 128307

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 128099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.40		mg/L		98	85 - 115
Magnesium	25.0	24.00		mg/L		96	85 - 115
Potassium	10.0	9.840		mg/L		98	85 - 115
Sodium	25.0	25.00		mg/L		100	85 - 115
SiO2	21.4	21.19		mg/L		99	85 - 115

Lab Sample ID: LCSD 860-128099/3-A

Matrix: Water

Analysis Batch: 128307

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 128099

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.50		mg/L		98	85 - 115	0	20
Magnesium	25.0	24.00		mg/L		96	85 - 115	0	20
Potassium	10.0	9.980		mg/L		100	85 - 115	1	20
Sodium	25.0	25.10		mg/L		100	85 - 115	0	20
SiO2	21.4	21.29		mg/L		100	85 - 115	1	20

Lab Sample ID: LLCS 860-128099/4-A

Matrix: Water

Analysis Batch: 128307

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 128099

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1960	J	mg/L		98	50 - 150
Magnesium	0.200	0.2250		mg/L		113	50 - 150
Potassium	0.500	0.5910		mg/L		118	50 - 150
Sodium	0.500	0.5610		mg/L		112	50 - 150
SiO2	1.07	1.104		mg/L		103	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-128215/3

Matrix: Water

Analysis Batch: 128215

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			10/26/23 10:58	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			10/26/23 10:58	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			10/26/23 10:58	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			10/26/23 10:58	1

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QC Sample Results

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

Job ID: 880-34788-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-128215/3

Matrix: Water

Analysis Batch: 128215

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			10/26/23 10:58	1

Lab Sample ID: LCS 860-128215/4

Matrix: Water

Analysis Batch: 128215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	248.9		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-128215/5

Matrix: Water

Analysis Batch: 128215

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	252.9		mg/L		101	85 - 115	2	20

Lab Sample ID: 880-34788-1 DU

Matrix: Water

Analysis Batch: 128215

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	410	^2	413.2		mg/L		0.7	20
Bicarbonate Alkalinity as CaCO3	410	^2	413.2		mg/L		0.7	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 860-128111/1

Matrix: Water

Analysis Batch: 128111

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			10/26/23 09:51	1

Lab Sample ID: LCS 860-128111/2

Matrix: Water

Analysis Batch: 128111

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	997.0		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-128111/3

Matrix: Water

Analysis Batch: 128111

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	1023		mg/L		102	80 - 120	3	10

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QC Association Summary

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

Job ID: 880-34788-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 127851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34788-1	Levey Well	Total/NA	Water	8260C	
MB 860-127851/10	Method Blank	Total/NA	Water	8260C	
LCS 860-127851/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-127851/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 127966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34788-1	Levey Well	Total/NA	Water	300.0	
MB 860-127966/3	Method Blank	Total/NA	Water	300.0	
LCS 860-127966/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-127966/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-127966/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 127967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34788-1	Levey Well	Total/NA	Water	300.0	
MB 860-127967/3	Method Blank	Total/NA	Water	300.0	
LCS 860-127967/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-127967/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-127967/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 128099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34788-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-128099/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-128099/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-128099/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-128099/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 128307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34788-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	128099
880-34788-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	128099
MB 860-128099/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	128099
LCS 860-128099/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	128099
LCSD 860-128099/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	128099
LLCS 860-128099/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	128099

General Chemistry

Analysis Batch: 127324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34788-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 128098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34788-1	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: 880-34788-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 128111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34788-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-128111/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-128111/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-128111/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 128215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34788-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-128215/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-128215/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-128215/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-34788-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-34788-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-34788-1

Date Collected: 10/23/23 15:00

Matrix: Water

Date Received: 10/24/23 08:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	127851	AN	EET HOU	10/25/23 17:16
Total/NA	Analysis	300.0		1	127966	RBNS	EET HOU	10/25/23 16:09
Total/NA	Analysis	300.0		1	127967	RBNS	EET HOU	10/25/23 16:09
Total Recoverable	Prep	200.7			128099	MD	EET HOU	10/26/23 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	128307	JDM	EET HOU	10/26/23 14:42
Total Recoverable	Prep	200.7			128099	MD	EET HOU	10/26/23 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	128307	JDM	EET HOU	10/26/23 14:55
Total/NA	Analysis	SM 1030E		1	127324	MC	EET HOU	10/30/23 12:16
Total/NA	Analysis	SM 2320B		1	128215	KEG	EET HOU	10/26/23 13:31
Total/NA	Analysis	SM 2540C		1	128111	SA	EET HOU	10/26/23 09:51
Total/NA	Analysis	SM 4500 H+ B		1	128098	KEG	EET HOU	10/25/23 16:55

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

Accreditation/Certification Summary

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

Job ID: 880-34788-1
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	T104704215-23-53	06-30-24
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
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: 880-34788-1
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: 880-34788-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34788-1	Levey Well	Water	10/23/23 15:00	10/24/23 08:36

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



380-34788 Chain of Custody

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

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO2	Na	Sr	Ti	Sn	U	V	Zn			
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP 6010		8RCRA	Sb	As	Ba	Be	Cd <td>Cr</td> <td>Co <td>Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td colspan="15"></td> </td></td></td></td></td></td></td></td></td></td>	Cr	Co <td>Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td colspan="15"></td> </td></td></td></td></td></td></td></td></td>	Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td colspan="15"></td> </td></td></td></td></td></td></td></td>	Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td colspan="15"></td> </td></td></td></td></td></td></td>	Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td colspan="15"></td> </td></td></td></td></td></td>	Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td colspan="15"></td> </td></td></td></td></td>	Ni <td>Se <td>Ag <td>Ti <td>U <td colspan="15"></td> </td></td></td></td>	Se <td>Ag <td>Ti <td>U <td colspan="15"></td> </td></td></td>	Ag <td>Ti <td>U <td colspan="15"></td> </td></td>	Ti <td>U <td colspan="15"></td> </td>	U <td colspan="15"></td>															
																											1631	/ 245.1	/ 7470	/ 7471	Hg					

Notice Signature of this document 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
			10/24/23			
3			830			
4						
5						
6						

Eurofins Midland

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

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-34788-1

SDG Number: Hobbs NM

Login Number: 34788

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-34788-1

SDG Number: Hobbs NM

Login Number: 34788

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 10/25/23 12:03 PM

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/7/2023 8:38:22 AM

JOB DESCRIPTION

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

JOB NUMBER

880-35107-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
11/7/2023 8:38:22 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: 880-35107-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-35107-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Case Narrative

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

Job ID: 880-35107-1
SDG: Hobbs NM

Job ID: 880-35107-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-35107-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 10/31/2023 3:25 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-128979 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: Due to the high concentration of Sulfate and Chloride the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-129021 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.

Metals

Method 200.7: Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-129201 and analytical batch 860-129381 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, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-129201 and analytical batch 860-129405 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: 880-35107-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-35107-1

Date Collected: 10/31/23 12:10

Matrix: Water

Date Received: 10/31/23 15:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00126		0.00100	0.000460 mg/L			11/01/23 19:16	1
Bromobenzene	<0.000486 U		0.00100	0.000486 mg/L			11/01/23 19:16	1
Bromochloromethane	<0.000577 U		0.00100	0.000577 mg/L			11/01/23 19:16	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			11/01/23 19:16	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			11/01/23 19:16	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			11/01/23 19:16	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			11/01/23 19:16	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			11/01/23 19:16	1
Chlorobenzene	<0.000455 U		0.00100	0.000455 mg/L			11/01/23 19:16	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			11/01/23 19:16	1
Chloroform	<0.000464 U		0.00100	0.000464 mg/L			11/01/23 19:16	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			11/01/23 19:16	1
2-Chlorotoluene	<0.000459 U		0.00200	0.000459 mg/L			11/01/23 19:16	1
4-Chlorotoluene	<0.000386 U		0.00100	0.000386 mg/L			11/01/23 19:16	1
cis-1,2-Dichloroethene	<0.000457 U		0.00100	0.000457 mg/L			11/01/23 19:16	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			11/01/23 19:16	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			11/01/23 19:16	1
1,2-Dibromo-3-Chloropropane	<0.000671 U		0.00500	0.000671 mg/L			11/01/23 19:16	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			11/01/23 19:16	1
1,2-Dichlorobenzene	<0.000429 U		0.00100	0.000429 mg/L			11/01/23 19:16	1
1,3-Dichlorobenzene	<0.000413 U		0.00100	0.000413 mg/L			11/01/23 19:16	1
1,4-Dichlorobenzene	<0.000449 U		0.00100	0.000449 mg/L			11/01/23 19:16	1
Dichlorodifluoromethane	<0.000785 U		0.00100	0.000785 mg/L			11/01/23 19:16	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			11/01/23 19:16	1
1,2-Dichloroethane	<0.000372 U		0.00100	0.000372 mg/L			11/01/23 19:16	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			11/01/23 19:16	1
1,2-Dichloropropane	<0.000556 U		0.00500	0.000556 mg/L			11/01/23 19:16	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			11/01/23 19:16	1
2,2-Dichloropropane	<0.000679 U		0.00500	0.000679 mg/L			11/01/23 19:16	1
1,1-Dichloropropene	<0.000624 U		0.00500	0.000624 mg/L			11/01/23 19:16	1
Ethylbenzene	0.00484		0.00100	0.000385 mg/L			11/01/23 19:16	1
Hexachlorobutadiene	<0.000627 U		0.00500	0.000627 mg/L			11/01/23 19:16	1
Isopropylbenzene	0.00260		0.00100	0.000592 mg/L			11/01/23 19:16	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			11/01/23 19:16	1
m,p-Xylenes	0.0190		0.0100	0.00124 mg/L			11/01/23 19:16	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			11/01/23 19:16	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			11/01/23 19:16	1
n-Butylbenzene	<0.000510 U		0.00100	0.000510 mg/L			11/01/23 19:16	1
N-Propylbenzene	0.00118		0.00100	0.000429 mg/L			11/01/23 19:16	1
o-Xylene	0.00313		0.00100	0.000502 mg/L			11/01/23 19:16	1
p-Cymene (p-Isopropyltoluene)	<0.000676 U		0.00100	0.000676 mg/L			11/01/23 19:16	1
sec-Butylbenzene	<0.000468 U		0.00100	0.000468 mg/L			11/01/23 19:16	1
Styrene	<0.000619 U		0.00100	0.000619 mg/L			11/01/23 19:16	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			11/01/23 19:16	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			11/01/23 19:16	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			11/01/23 19:16	1
Tetrachloroethene	<0.000655 U		0.00100	0.000655 mg/L			11/01/23 19:16	1
Toluene	0.00886		0.00100	0.000475 mg/L			11/01/23 19:16	1
trans-1,2-Dichloroethene	<0.000368 U		0.00100	0.000368 mg/L			11/01/23 19:16	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 10/31/23 12:10
Date Received: 10/31/23 15:25

Lab Sample ID: 880-35107-1
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			11/01/23 19:16	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			11/01/23 19:16	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			11/01/23 19:16	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			11/01/23 19:16	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			11/01/23 19:16	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			11/01/23 19:16	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			11/01/23 19:16	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			11/01/23 19:16	1
1,2,4-Trimethylbenzene	0.00521		0.00100	0.000417	mg/L			11/01/23 19:16	1
1,3,5-Trimethylbenzene	0.00150		0.00100	0.000411	mg/L			11/01/23 19:16	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			11/01/23 19:16	1
Xylenes, Total	0.0221		0.0100	0.00124	mg/L			11/01/23 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124					11/01/23 19:16	1
Dibromofluoromethane (Surr)	100		75 - 131					11/01/23 19:16	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144					11/01/23 19:16	1
Toluene-d8 (Surr)	98		80 - 120					11/01/23 19:16	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.414	J	0.500	0.0711	mg/L			11/02/23 00:34	1
Nitrate as N	0.0990	J	0.100	0.0391	mg/L			11/02/23 00:34	1
Chloride	240		0.500	0.250	mg/L			11/02/23 00:34	1
Nitrite as N	0.601		0.100	0.0293	mg/L			11/02/23 00:34	1
Fluoride	0.498	J	0.500	0.100	mg/L			11/02/23 00:34	1
Sulfate	50.4		0.500	0.200	mg/L			11/02/23 00:34	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	255		10.0	5.76	mg/L		11/02/23 12:30	11/02/23 18:45	50
Magnesium	47.6		0.200	0.0428	mg/L		11/02/23 12:30	11/02/23 18:13	1
Potassium	3.97		0.500	0.0914	mg/L		11/02/23 12:30	11/02/23 18:13	1
Sodium	89.5		0.500	0.152	mg/L		11/02/23 12:30	11/02/23 18:13	1
SiO2	67.0		1.07	0.471	mg/L		11/02/23 12:30	11/02/23 18:13	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-0.384				%			11/06/23 12:16	1
Alkalinity (SM 2320B)	534		4.00	4.00	mg/L			11/03/23 10:56	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	534		4.00	4.00	mg/L			11/03/23 10:56	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/03/23 10:56	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/03/23 10:56	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/03/23 10:56	1
Total Dissolved Solids (SM 2540C)	1250		10.0	10.0	mg/L			11/02/23 09:39	1
pH (SM 4500 H+ B)	6.4	HF			SU			11/02/23 15:11	1
Temperature (SM 4500 H+ B)	19.1	HF			Degrees C			11/02/23 15:11	1

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Surrogate Summary

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

Job ID: 880-35107-1
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)	(80-120)
880-35107-1	Levey Well	99	100	102	98
LCS 860-128979/3	Lab Control Sample	100	100	96	100
LCSD 860-128979/4	Lab Control Sample Dup	100	99	95	99
MB 860-128979/9	Method Blank	100	99	100	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-128979/9

Matrix: Water

Analysis Batch: 128979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			11/01/23 16:32	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/01/23 16:32	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/01/23 16:32	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/01/23 16:32	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/01/23 16:32	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/01/23 16:32	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/01/23 16:32	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/01/23 16:32	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/01/23 16:32	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/01/23 16:32	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/01/23 16:32	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/01/23 16:32	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/01/23 16:32	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/01/23 16:32	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/01/23 16:32	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/01/23 16:32	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/01/23 16:32	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/01/23 16:32	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/01/23 16:32	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/01/23 16:32	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/01/23 16:32	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/01/23 16:32	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/01/23 16:32	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/01/23 16:32	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/01/23 16:32	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/01/23 16:32	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/01/23 16:32	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/01/23 16:32	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/01/23 16:32	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/01/23 16:32	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/01/23 16:32	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/01/23 16:32	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/01/23 16:32	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/01/23 16:32	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/01/23 16:32	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/01/23 16:32	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/01/23 16:32	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/01/23 16:32	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/01/23 16:32	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/01/23 16:32	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/01/23 16:32	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/01/23 16:32	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/01/23 16:32	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/01/23 16:32	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/01/23 16:32	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/01/23 16:32	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/01/23 16:32	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/01/23 16:32	1

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QC Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-128979/9

Matrix: Water

Analysis Batch: 128979

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	<0.000368	U	0.00100	0.000368 mg/L			11/01/23 16:32	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			11/01/23 16:32	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/01/23 16:32	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/01/23 16:32	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/01/23 16:32	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/01/23 16:32	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			11/01/23 16:32	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/01/23 16:32	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/01/23 16:32	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			11/01/23 16:32	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			11/01/23 16:32	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/01/23 16:32	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			11/01/23 16:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124				11/01/23 16:32	1
Dibromofluoromethane (Surr)	99		75 - 131				11/01/23 16:32	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144				11/01/23 16:32	1
Toluene-d8 (Surr)	100		80 - 120				11/01/23 16:32	1

Lab Sample ID: LCS 860-128979/3

Matrix: Water

Analysis Batch: 128979

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	0.04814		mg/L		96	75 - 125
Bromobenzene	0.0500	0.05007		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.04697		mg/L		94	60 - 140
Bromodichloromethane	0.0500	0.04980		mg/L		100	75 - 125
Bromoform	0.0500	0.05103		mg/L		102	70 - 130
Bromomethane	0.0500	0.05467		mg/L		109	60 - 140
2-Butanone	0.250	0.2283		mg/L		91	60 - 140
Carbon tetrachloride	0.0500	0.04983		mg/L		100	70 - 130
Chlorobenzene	0.0500	0.04834		mg/L		97	65 - 135
Chloroethane	0.0500	0.05082		mg/L		102	60 - 140
Chloroform	0.0500	0.04896		mg/L		98	70 - 121
Chloromethane	0.0500	0.05270		mg/L		105	60 - 140
2-Chlorotoluene	0.0500	0.04816		mg/L		96	73 - 125
4-Chlorotoluene	0.0500	0.04886		mg/L		98	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04842		mg/L		97	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05059		mg/L		101	74 - 125
Dibromochloromethane	0.0500	0.05027		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05019		mg/L		100	59 - 125
1,2-Dibromoethane	0.0500	0.05061		mg/L		101	73 - 125
1,2-Dichlorobenzene	0.0500	0.04968		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.04948		mg/L		99	75 - 125
1,4-Dichlorobenzene	0.0500	0.04883		mg/L		98	75 - 125
Dichlorodifluoromethane	0.0500	0.06333		mg/L		127	50 - 150

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QC Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-128979/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 128979							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04796		mg/L		96	70 - 130
1,2-Dichloroethane	0.0500	0.05002		mg/L		100	72 - 130
1,1-Dichloroethene	0.0500	0.05102		mg/L		102	50 - 150
1,2-Dichloropropane	0.0500	0.05000		mg/L		100	74 - 125
1,3-Dichloropropane	0.0500	0.04947		mg/L		99	75 - 125
2,2-Dichloropropane	0.0500	0.05222		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.04984		mg/L		100	75 - 125
Ethylbenzene	0.0500	0.04873		mg/L		97	75 - 125
Hexachlorobutadiene	0.0500	0.05363		mg/L		107	75 - 125
Isopropylbenzene	0.0500	0.04921		mg/L		98	75 - 125
Methylene Chloride	0.0500	0.04427		mg/L		89	71 - 125
m,p-Xylenes	0.0500	0.04863		mg/L		97	75 - 125
MTBE	0.0500	0.04552		mg/L		91	65 - 135
Naphthalene	0.0500	0.05225		mg/L		104	70 - 130
n-Butylbenzene	0.0500	0.04987		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04814		mg/L		96	75 - 125
o-Xylene	0.0500	0.04884		mg/L		98	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04966		mg/L		99	75 - 125
sec-Butylbenzene	0.0500	0.04964		mg/L		99	75 - 125
Styrene	0.0500	0.04917		mg/L		98	75 - 125
tert-Butylbenzene	0.0500	0.04894		mg/L		98	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05057		mg/L		101	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04903		mg/L		98	74 - 125
Tetrachloroethene	0.0500	0.05055		mg/L		101	71 - 125
Toluene	0.0500	0.04900		mg/L		98	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04754		mg/L		95	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05063		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05247		mg/L		105	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05215		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05055		mg/L		101	70 - 130
1,1,2-Trichloroethane	0.0500	0.05017		mg/L		100	70 - 130
Trichloroethene	0.0500	0.05076		mg/L		102	75 - 135
Trichlorofluoromethane	0.0500	0.05636		mg/L		113	60 - 140
1,2,3-Trichloropropane	0.0500	0.04968		mg/L		99	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04971		mg/L		99	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04911		mg/L		98	60 - 140
Vinyl chloride	0.0500	0.05470		mg/L		109	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		74 - 124				
Dibromofluoromethane (Surr)	100		75 - 131				
1,2-Dichloroethane-d4 (Surr)	96		63 - 144				
Toluene-d8 (Surr)	100		80 - 120				

QC Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-128979/4

Matrix: Water

Analysis Batch: 128979

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	0.04706		mg/L		94	75 - 125	2	25
Bromobenzene	0.0500	0.04843		mg/L		97	75 - 125	3	25
Bromochloromethane	0.0500	0.04496		mg/L		90	60 - 140	4	25
Bromodichloromethane	0.0500	0.04838		mg/L		97	75 - 125	3	25
Bromoform	0.0500	0.04929		mg/L		99	70 - 130	3	25
Bromomethane	0.0500	0.05192		mg/L		104	60 - 140	5	25
2-Butanone	0.250	0.2144		mg/L		86	60 - 140	6	25
Carbon tetrachloride	0.0500	0.04680		mg/L		94	70 - 130	6	25
Chlorobenzene	0.0500	0.04695		mg/L		94	65 - 135	3	25
Chloroethane	0.0500	0.04686		mg/L		94	60 - 140	8	25
Chloroform	0.0500	0.04664		mg/L		93	70 - 121	5	25
Chloromethane	0.0500	0.05052		mg/L		101	60 - 140	4	25
2-Chlorotoluene	0.0500	0.04688		mg/L		94	73 - 125	3	25
4-Chlorotoluene	0.0500	0.04770		mg/L		95	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.04656		mg/L		93	75 - 125	4	25
cis-1,3-Dichloropropene	0.0500	0.04861		mg/L		97	74 - 125	4	25
Dibromochloromethane	0.0500	0.04860		mg/L		97	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04849		mg/L		97	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.04832		mg/L		97	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04807		mg/L		96	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.04817		mg/L		96	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04755		mg/L		95	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.06367		mg/L		127	50 - 150	1	25
1,1-Dichloroethane	0.0500	0.04582		mg/L		92	70 - 130	5	25
1,2-Dichloroethane	0.0500	0.04867		mg/L		97	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.04971		mg/L		99	50 - 150	3	25
1,2-Dichloropropane	0.0500	0.04863		mg/L		97	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04776		mg/L		96	75 - 125	4	25
2,2-Dichloropropane	0.0500	0.05006		mg/L		100	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.04904		mg/L		98	75 - 125	2	25
Ethylbenzene	0.0500	0.04777		mg/L		96	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.05341		mg/L		107	75 - 125	0	25
Isopropylbenzene	0.0500	0.04842		mg/L		97	75 - 125	2	25
Methylene Chloride	0.0500	0.04202		mg/L		84	71 - 125	5	25
m,p-Xylenes	0.0500	0.04761		mg/L		95	75 - 125	2	25
MTBE	0.0500	0.04384		mg/L		88	65 - 135	4	25
Naphthalene	0.0500	0.05006		mg/L		100	70 - 130	4	25
n-Butylbenzene	0.0500	0.04957		mg/L		99	75 - 125	1	25
N-Propylbenzene	0.0500	0.04755		mg/L		95	75 - 125	1	25
o-Xylene	0.0500	0.04751		mg/L		95	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04928		mg/L		99	75 - 125	1	25
sec-Butylbenzene	0.0500	0.04934		mg/L		99	75 - 125	1	25
Styrene	0.0500	0.04784		mg/L		96	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04844		mg/L		97	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04864		mg/L		97	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04710		mg/L		94	74 - 125	4	25
Tetrachloroethene	0.0500	0.05005		mg/L		100	71 - 125	1	25
Toluene	0.0500	0.04781		mg/L		96	70 - 130	2	25

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QC Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-128979/4

Matrix: Water

Analysis Batch: 128979

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	0.04602		mg/L		92	75 - 125		3	25
trans-1,3-Dichloropropene	0.0500	0.04877		mg/L		98	66 - 125		4	25
1,2,3-Trichlorobenzene	0.0500	0.05089		mg/L		102	75 - 137		3	25
1,2,4-Trichlorobenzene	0.0500	0.05075		mg/L		102	75 - 135		3	25
1,1,1-Trichloroethane	0.0500	0.04959		mg/L		99	70 - 130		2	25
1,1,2-Trichloroethane	0.0500	0.04825		mg/L		96	70 - 130		4	25
Trichloroethene	0.0500	0.05000		mg/L		100	75 - 135		2	25
Trichlorofluoromethane	0.0500	0.05562		mg/L		111	60 - 140		1	25
1,2,3-Trichloropropane	0.0500	0.04753		mg/L		95	75 - 125		4	25
1,2,4-Trimethylbenzene	0.0500	0.04833		mg/L		97	75 - 125		3	25
1,3,5-Trimethylbenzene	0.0500	0.04830		mg/L		97	60 - 140		2	25
Vinyl chloride	0.0500	0.05325		mg/L		107	60 - 140		3	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
Toluene-d8 (Surr)	99		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-129021/3

Matrix: Water

Analysis Batch: 129021

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			11/01/23 15:18	1
Chloride	<0.250	U	0.500	0.250 mg/L			11/01/23 15:18	1
Fluoride	<0.100	U	0.500	0.100 mg/L			11/01/23 15:18	1
Sulfate	<0.200	U	0.500	0.200 mg/L			11/01/23 15:18	1

Lab Sample ID: LCS 860-129021/4

Matrix: Water

Analysis Batch: 129021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Bromide	10.0	9.819		mg/L		98	90 - 110	
Chloride	10.0	9.658		mg/L		97	90 - 110	
Fluoride	10.0	10.02		mg/L		100	90 - 110	
Sulfate	10.0	9.640		mg/L		96	90 - 110	

Lab Sample ID: LCSD 860-129021/5

Matrix: Water

Analysis Batch: 129021

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	9.692		mg/L		97	90 - 110		1	20
Chloride	10.0	9.653		mg/L		97	90 - 110		0	20
Fluoride	10.0	10.07		mg/L		101	90 - 110		0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-129021/5

Matrix: Water

Analysis Batch: 129021

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	9.604		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-129021/7

Matrix: Water

Analysis Batch: 129021

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	0.5367		mg/L		107	50 - 150		
Chloride	0.500	0.3039	J	mg/L		61	50 - 150		
Fluoride	0.500	0.2610	J	mg/L		52	50 - 150		
Sulfate	0.500	0.3765	J	mg/L		75	50 - 150		

Lab Sample ID: MB 860-129022/3

Matrix: Water

Analysis Batch: 129022

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			11/01/23 15:18	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/01/23 15:18	1

Lab Sample ID: LCS 860-129022/4

Matrix: Water

Analysis Batch: 129022

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	9.837		mg/L		98	80 - 120		
Nitrite as N	10.0	9.820		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-129022/5

Matrix: Water

Analysis Batch: 129022

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	9.897		mg/L		99	80 - 120	1	20
Nitrite as N	10.0	9.838		mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-129022/6

Matrix: Water

Analysis Batch: 129022

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	0.1397		mg/L		140	50 - 150		
Nitrite as N	0.100	0.1134		mg/L		113	50 - 150		

Eurofins Midland

QC Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-129201/1-A

Matrix: Water

Analysis Batch: 129381

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 129201

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		11/02/23 12:30	11/02/23 17:19	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		11/02/23 12:30	11/02/23 17:19	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		11/02/23 12:30	11/02/23 17:19	1
Sodium	<0.152	U	0.500	0.152 mg/L		11/02/23 12:30	11/02/23 17:19	1
SiO2	<0.471	U	1.07	0.471 mg/L		11/02/23 12:30	11/02/23 17:19	1

Lab Sample ID: LCS 860-129201/2-A

Matrix: Water

Analysis Batch: 129381

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 129201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.40		mg/L		102	85 - 115
Magnesium	25.0	23.60		mg/L		94	85 - 115
Potassium	10.0	9.740		mg/L		97	85 - 115
Sodium	25.0	24.70		mg/L		99	85 - 115
SiO2	21.4	21.61		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-129201/3-A

Matrix: Water

Analysis Batch: 129381

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 129201

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.80		mg/L		103	85 - 115	2	20
Magnesium	25.0	23.90		mg/L		96	85 - 115	1	20
Potassium	10.0	9.780		mg/L		98	85 - 115	0	20
Sodium	25.0	25.10		mg/L		100	85 - 115	2	20
SiO2	21.4	21.40		mg/L		100	85 - 115	1	20

Lab Sample ID: LLCS 860-129201/4-A

Matrix: Water

Analysis Batch: 129381

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 129201

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2300		mg/L		115	50 - 150
Magnesium	0.200	0.2400		mg/L		120	50 - 150
Potassium	0.500	0.5270		mg/L		105	50 - 150
Sodium	0.500	0.6670		mg/L		133	50 - 150
SiO2	1.07	1.340		mg/L		125	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-129452/3

Matrix: Water

Analysis Batch: 129452

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			11/03/23 10:29	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/03/23 10:29	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/03/23 10:29	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			11/03/23 10:29	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-129452/3

Matrix: Water

Analysis Batch: 129452

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			11/03/23 10:29	1

Lab Sample ID: LCS 860-129452/4

Matrix: Water

Analysis Batch: 129452

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	234.1		mg/L		94	85 - 115

Lab Sample ID: LCSD 860-129452/5

Matrix: Water

Analysis Batch: 129452

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	244.3		mg/L		98	85 - 115	4	20

Lab Sample ID: 880-35107-1 DU

Matrix: Water

Analysis Batch: 129452

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	534		541.7		mg/L		1	20
Bicarbonate Alkalinity as CaCO3	534		541.7		mg/L		1	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-129159/1

Matrix: Water

Analysis Batch: 129159

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			11/02/23 09:39	1

Lab Sample ID: LCS 860-129159/2

Matrix: Water

Analysis Batch: 129159

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	1036		mg/L		104	80 - 120

Lab Sample ID: LCSD 860-129159/3

Matrix: Water

Analysis Batch: 129159

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	1092		mg/L		109	80 - 120	5	10

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QC Sample Results

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

Job ID: 880-35107-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-129159/26				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 129159							
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: 880-35107-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 128979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35107-1	Levey Well	Total/NA	Water	8260C	
MB 860-128979/9	Method Blank	Total/NA	Water	8260C	
LCS 860-128979/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-128979/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 129021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35107-1	Levey Well	Total/NA	Water	300.0	
MB 860-129021/3	Method Blank	Total/NA	Water	300.0	
LCS 860-129021/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-129021/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-129021/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 129022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35107-1	Levey Well	Total/NA	Water	300.0	
MB 860-129022/3	Method Blank	Total/NA	Water	300.0	
LCS 860-129022/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-129022/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-129022/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 129201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35107-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-129201/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-129201/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-129201/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-129201/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 129381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35107-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	129201
880-35107-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	129201
MB 860-129201/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	129201
LCS 860-129201/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	129201
LCSD 860-129201/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	129201
LLCS 860-129201/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	129201

General Chemistry

Analysis Batch: 127324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35107-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 129159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35107-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-129159/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 880-35107-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 129159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-129159/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-129159/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-129159/26	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 129258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35107-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 129452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35107-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-129452/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-129452/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-129452/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-35107-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-35107-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-35107-1

Date Collected: 10/31/23 12:10

Matrix: Water

Date Received: 10/31/23 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	128979	NA	EET HOU	11/01/23 19:16
Total/NA	Analysis	300.0		1	129021	A1S	EET HOU	11/02/23 00:34
Total/NA	Analysis	300.0		1	129022	A1S	EET HOU	11/02/23 00:34
Total Recoverable	Prep	200.7			129201	MD	EET HOU	11/02/23 12:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	129381	JDM	EET HOU	11/02/23 18:13
Total Recoverable	Prep	200.7			129201	MD	EET HOU	11/02/23 12:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	129381	JDM	EET HOU	11/02/23 18:45
Total/NA	Analysis	SM 1030E		1	127324	MC	EET HOU	11/06/23 12:16
Total/NA	Analysis	SM 2320B		1	129452	KEG	EET HOU	11/03/23 10:56
Total/NA	Analysis	SM 2540C		1	129159	SA	EET HOU	11/02/23 09:39
Total/NA	Analysis	SM 4500 H+ B		1	129258	KEG	EET HOU	11/02/23 15:11

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: 880-35107-1
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	T104704215-23-53	06-30-24
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
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: 880-35107-1
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: 880-35107-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35107-1	Levey Well	Water	10/31/23 12:10	10/31/23 15:25

- 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

Wor



880-35107 Chain of Custody

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

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

Project Name:	Levey Well	Hobbs NM	Turn Around	ANALYSIS REQUEST										Work Order Notes									
Project Number:	03B1417001		Routine ☐																				
P.O. Number:	03B1417001		Rush 24 hr																				
Sampler's Name:	Shane Diller		Due Date																				
SAMPLE RECEIPT				Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒																
Temperature (°C):	57.5		Thermometer ID																				
Received Inact:	Yes ☒ No ☐		Correction Factor:																				
Cooler Custody Seals:	Yes ☒ No ☐		Total Containers:																				
Sample Custody Seals:	Yes ☒ No ☐																						
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS											TAT starts the day received by the lab if received by 4:30pm	
Levey Well	GW	10-31-22	12:10	7	X	X	X	X	X	X												24hr	

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

Office: 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
		10/31/23			1525

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-35107-1

SDG Number: Hobbs NM

Login Number: 35107

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: 880-35107-1

SDG Number: Hobbs NM

Login Number: 35107

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/01/23 01:58 PM

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



ANALYTICAL REPORT

October 10, 2023

Ensolum, LLC

Sample Delivery Group: L1662577
Samples Received: 10/04/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

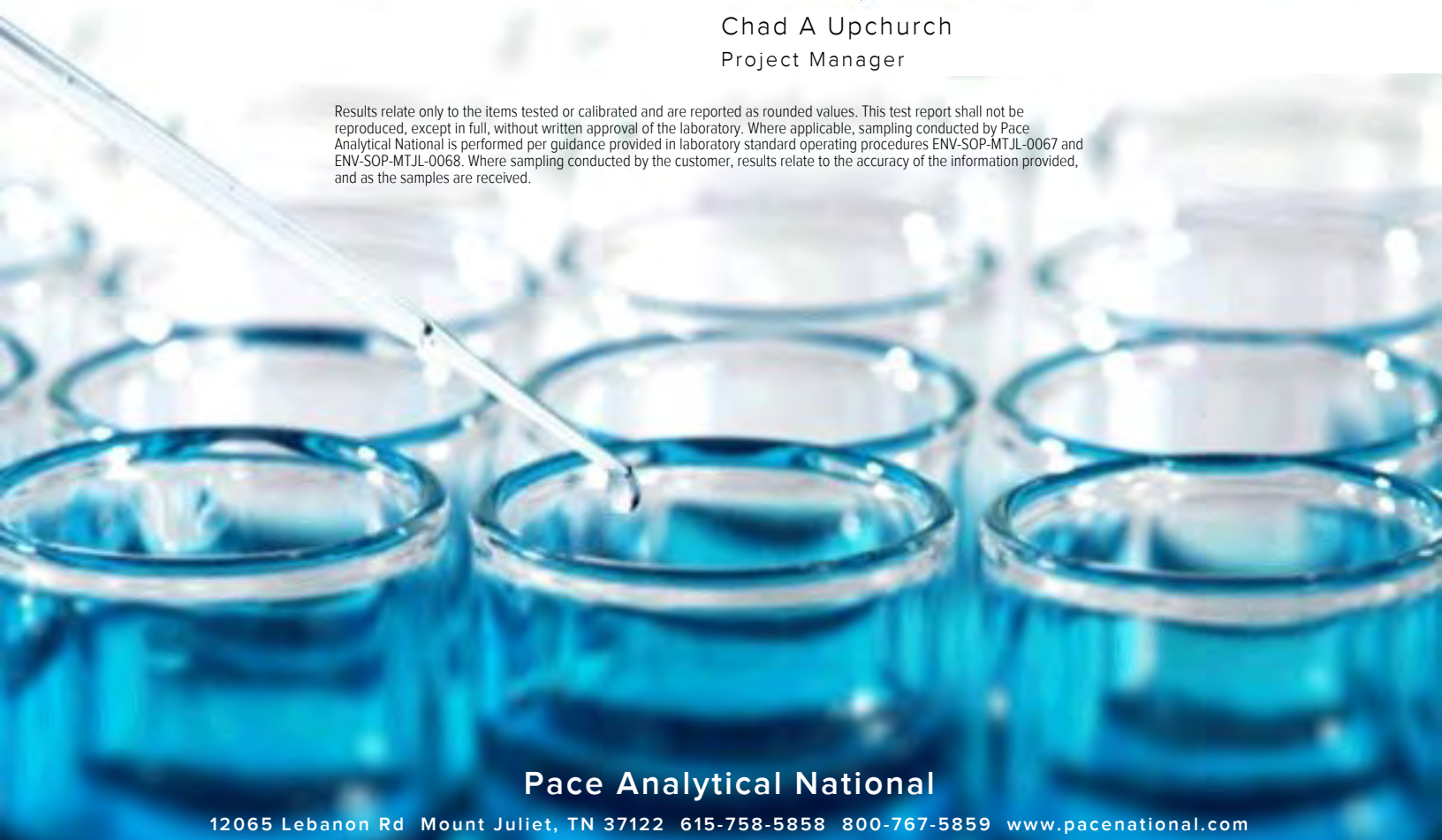


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

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

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1662577-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	15	⁸ Gl
Al: Accreditations & Locations	16	
Sc: Sample Chain of Custody	17	⁹ Al
		¹⁰ Sc

LEVEY WELL L1662577-01 Air

Collected by
Shane Diller

Collected date/time
10/02/23 12:22

Received date/time
10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2145525	100	10/06/23 02:06	10/06/23 02:06	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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



Chad A Upchurch
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

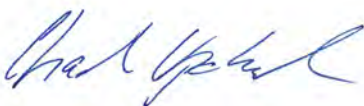
¹⁰ Sc

Laboratory Data Package Cover Page

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

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

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



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 10/10/2023 17:43					
Project Name: Levey Well		Laboratory Job Number: L1662577-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2145525					
# 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: 10/10/2023 17:43					
Project Name: Levey Well		Laboratory Job Number: L1662577-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2145525					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 10/10/2023 17:43	
Project Name: Levey Well		Laboratory Job Number: L1662577-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2145525	
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: 10/02/23 12:22

L1662577

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	720	1710		100	WG2145525
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2145525
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2145525
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2145525
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2145525
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2145525
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2145525
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2145525
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2145525
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2145525
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2145525
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2145525
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2145525
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2145525
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2145525
Cyclohexane	110-82-7	84.20	20.0	68.9	ND	ND		100	WG2145525
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2145525
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2145525
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2145525
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2145525
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2145525
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2145525
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2145525
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2145525
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2145525
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2145525
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2145525
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2145525
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2145525
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2145525
Ethanol	64-17-5	46.10	250	471	2150	4050	B	100	WG2145525
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2145525
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2145525
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2145525
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2145525
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2145525
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2145525
Heptane	142-82-5	100	20.0	81.8	ND	ND		100	WG2145525
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2145525
n-Hexane	110-54-3	86.20	63.0	222	1630	5750		100	WG2145525
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2145525
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2145525
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2145525
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2145525
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2145525
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2145525
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2145525
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2145525
2-Propanol	67-63-0	60.10	125	307	673	1650		100	WG2145525
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2145525
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2145525
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2145525
Tetrachloroethylene	127-18-4	166	20.0	136	26.2	178		100	WG2145525
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2145525
Toluene	108-88-3	92.10	50.0	188	55.4	209		100	WG2145525
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2145525

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 10/02/23 12:22

L1662577

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	WG2145525
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2145525
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2145525
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2145525
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2145525
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2145525
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2145525
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2145525
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2145525
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG2145525
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2145525
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2145525
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.1				WG2145525

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3983039-3 10/05/23 13:57

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	1.08		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	0.145	UL	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	0.116	UL	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	2.29	UL	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3983039-3 10/05/23 13:57

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	0.177	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	0.0950	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	99.6			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3983039-1 10/05/23 09:14 • (LCSD) R3983039-2 10/05/23 13:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.97	3.99	106	106	70.0-130			0.503	25
Allyl chloride	3.75	4.15	4.24	111	113	70.0-130			2.15	25
Benzene	3.75	3.98	4.02	106	107	70.0-130			1.00	25
Benzyl Chloride	3.75	3.67	3.84	97.9	102	70.0-152			4.53	25

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15 [L1662577-01](#)

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

(LCS) R3983039-1 10/05/23 09:14 • (LCSD) R3983039-2 10/05/23 13:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.99	4.02	106	107	70.0-130			0.749	25
Bromoform	3.75	4.17	4.18	111	111	70.0-130			0.240	25
Bromomethane	3.75	3.90	3.87	104	103	70.0-130			0.772	25
1,3-Butadiene	3.75	3.79	3.88	101	103	70.0-130			2.35	25
Carbon disulfide	3.75	3.64	3.69	97.1	98.4	70.0-130			1.36	25
Carbon tetrachloride	3.75	4.10	4.09	109	109	70.0-130			0.244	25
Chlorobenzene	3.75	3.94	3.88	105	103	70.0-130			1.53	25
Chloroethane	3.75	3.68	3.75	98.1	100	70.0-130			1.88	25
Chloroform	3.75	4.07	4.02	109	107	70.0-130			1.24	25
Chloromethane	3.75	3.72	3.80	99.2	101	70.0-130			2.13	25
2-Chlorotoluene	3.75	4.17	4.24	111	113	70.0-130			1.66	25
Cyclohexane	3.75	3.49	3.44	93.1	91.7	70.0-130			1.44	25
Dibromochloromethane	3.75	3.92	3.93	105	105	70.0-130			0.255	25
1,2-Dibromoethane	3.75	3.91	3.88	104	103	70.0-130			0.770	25
1,2-Dichlorobenzene	3.75	3.58	3.79	95.5	101	70.0-130			5.70	25
1,3-Dichlorobenzene	3.75	3.72	4.06	99.2	108	70.0-130			8.74	25
1,4-Dichlorobenzene	3.75	3.69	3.96	98.4	106	70.0-130			7.06	25
1,2-Dichloroethane	3.75	4.07	4.10	109	109	70.0-130			0.734	25
1,1-Dichloroethane	3.75	4.14	4.21	110	112	70.0-130			1.68	25
1,1-Dichloroethene	3.75	4.28	4.17	114	111	70.0-130			2.60	25
cis-1,2-Dichloroethene	3.75	4.12	4.18	110	111	70.0-130			1.45	25
trans-1,2-Dichloroethene	3.75	4.24	4.19	113	112	70.0-130			1.19	25
1,2-Dichloropropane	3.75	4.13	4.02	110	107	70.0-130			2.70	25
cis-1,3-Dichloropropene	3.75	4.08	4.16	109	111	70.0-130			1.94	25
trans-1,3-Dichloropropene	3.75	4.00	4.08	107	109	70.0-130			1.98	25
1,4-Dioxane	3.75	3.69	3.74	98.4	99.7	70.0-140			1.35	25
Ethanol	3.75	4.82	5.12	129	137	55.0-148			6.04	25
Ethylbenzene	3.75	4.26	4.23	114	113	70.0-130			0.707	25
4-Ethyltoluene	3.75	4.05	4.24	108	113	70.0-130			4.58	25
Trichlorofluoromethane	3.75	4.23	4.18	113	111	70.0-130			1.19	25
Dichlorodifluoromethane	3.75	3.97	3.99	106	106	64.0-139			0.503	25
1,1,2-Trichlorotrifluoroethane	3.75	4.15	4.09	111	109	70.0-130			1.46	25
1,2-Dichlorotetrafluoroethane	3.75	4.19	4.21	112	112	70.0-130			0.476	25
Heptane	3.75	4.06	4.08	108	109	70.0-130			0.491	25
Hexachloro-1,3-butadiene	3.75	3.69	3.59	98.4	95.7	70.0-151			2.75	25
n-Hexane	3.75	3.87	3.94	103	105	70.0-130			1.79	25
Isopropylbenzene	3.75	4.20	4.22	112	113	70.0-130			0.475	25
Methylene Chloride	3.75	3.64	3.67	97.1	97.9	70.0-130			0.821	25
Methyl Butyl Ketone	3.75	3.97	4.08	106	109	70.0-149			2.73	25
2-Butanone (MEK)	3.75	3.67	3.62	97.9	96.5	70.0-130			1.37	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1662577-01

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

(LCS) R3983039-1 10/05/23 09:14 • (LCSD) R3983039-2 10/05/23 13:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.00	4.11	107	110	70.0-139			2.71	25
Methyl methacrylate	3.75	3.92	3.74	105	99.7	70.0-130			4.70	25
MTBE	3.75	4.21	4.18	112	111	70.0-130			0.715	25
Naphthalene	3.75	3.86	3.72	103	99.2	70.0-159			3.69	25
2-Propanol	3.75	3.81	3.90	102	104	70.0-139			2.33	25
Propene	3.75	4.07	4.09	109	109	64.0-144			0.490	25
Styrene	3.75	4.09	4.07	109	109	70.0-130			0.490	25
1,1,2,2-Tetrachloroethane	3.75	3.86	4.04	103	108	70.0-130			4.56	25
Tetrachloroethylene	3.75	4.02	4.02	107	107	70.0-130			0.000	25
Tetrahydrofuran	3.75	4.00	4.05	107	108	70.0-137			1.24	25
Toluene	3.75	4.06	4.04	108	108	70.0-130			0.494	25
1,2,4-Trichlorobenzene	3.75	3.73	3.60	99.5	96.0	70.0-160			3.55	25
1,1,1-Trichloroethane	3.75	4.06	4.02	108	107	70.0-130			0.990	25
1,1,2-Trichloroethane	3.75	3.90	3.86	104	103	70.0-130			1.03	25
Trichloroethylene	3.75	4.07	4.08	109	109	70.0-130			0.245	25
1,2,4-Trimethylbenzene	3.75	3.76	4.05	100	108	70.0-130			7.43	25
1,3,5-Trimethylbenzene	3.75	3.86	4.20	103	112	70.0-130			8.44	25
2,2,4-Trimethylpentane	3.75	4.19	4.23	112	113	70.0-130			0.950	25
Vinyl chloride	3.75	3.91	3.94	104	105	70.0-130			0.764	25
Vinyl Bromide	3.75	4.06	3.98	108	106	70.0-130			1.99	25
Vinyl acetate	3.75	3.28	3.27	87.5	87.2	70.0-130			0.305	25
m&p-Xylene	7.50	8.52	8.50	114	113	70.0-130			0.235	25
o-Xylene	3.75	4.18	4.15	111	111	70.0-130			0.720	25
TPH (GC/MS) Low Fraction	188	179	173	95.2	92.0	70.0-130			3.41	25
(S) 1,4-Bromofluorobenzene				100	101	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Released to Imaging: 4/22/2024 11:20:02 AM



ANALYTICAL REPORT

October 10, 2023

Ensolum, LLC

Sample Delivery Group: L1662733
Samples Received: 10/03/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

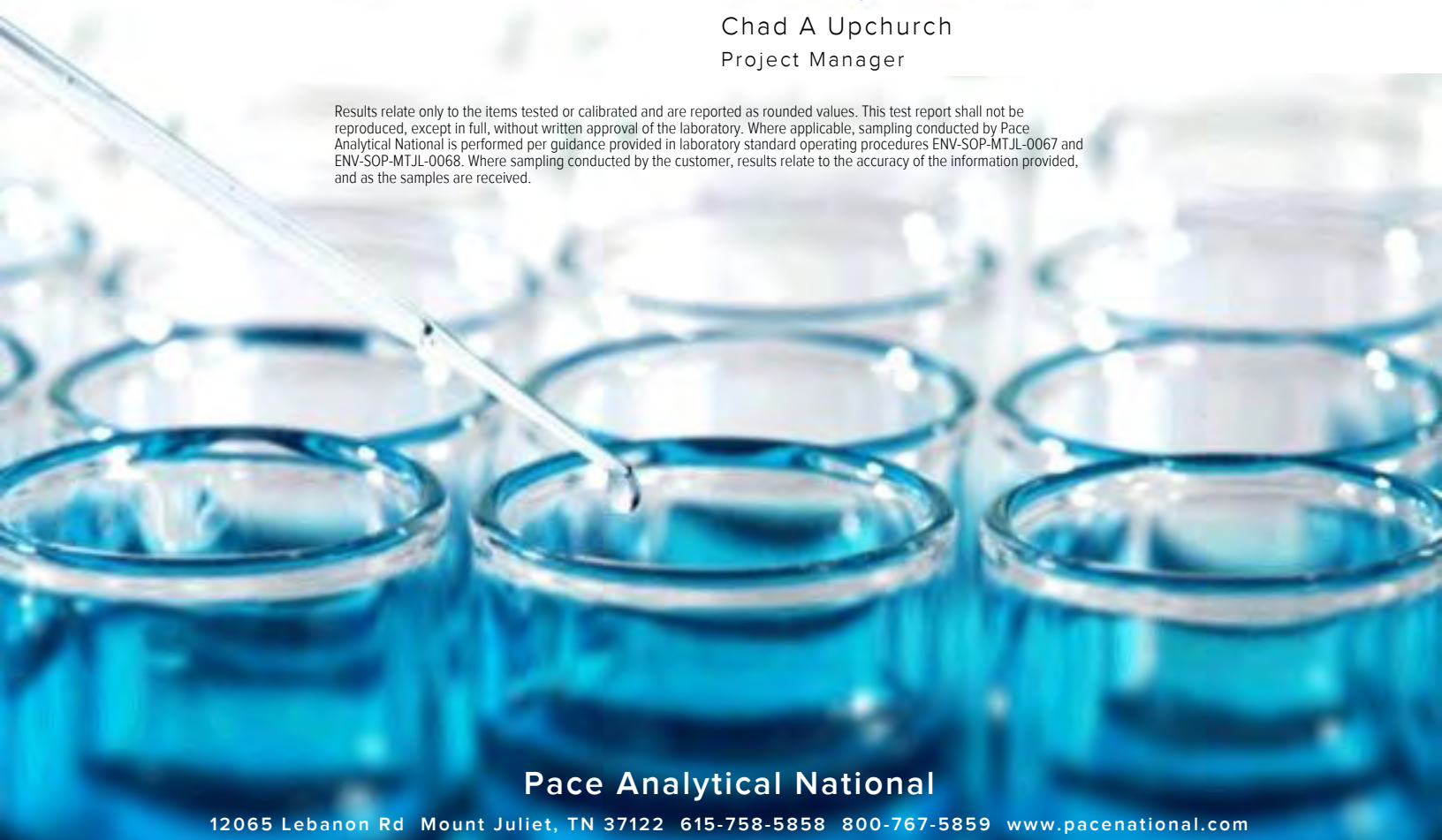


Entire Report Reviewed By:

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 L1662733-01	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 L1662733-01 Air

Collected by
Shane Diller

Collected date/time
10/02/23 12:20

Received date/time
10/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2146386	100	10/07/23 00:32	10/07/23 00:32	GH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2147368	1000	10/08/23 21:13	10/08/23 21:13	JAP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

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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.



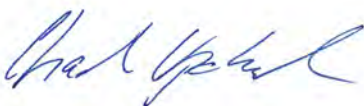
Chad A Upchurch
Project Manager

- 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: 10/10/2023 11:06					
Project Name: Levey Well		Laboratory Job Number: L1662733-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2146386 and WG2147368					
# 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: 10/10/2023 11:06					
Project Name: Levey Well		Laboratory Job Number: L1662733-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2146386 and WG2147368					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 10/10/2023 11:06	
Project Name: Levey Well		Laboratory Job Number: L1662733-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2146386 and WG2147368	
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: 10/02/23 12:20

L1662733

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	WG2146386
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2146386
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2146386
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2146386
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2146386
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2146386
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2146386
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2146386
Carbon disulfide	75-15-0	76.10	20.0	62.2	160	498		100	WG2146386
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2146386
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2146386
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2146386
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2146386
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2146386
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2146386
Cyclohexane	110-82-7	84.20	200	689	30500	105000		1000	WG2147368
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2146386
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2146386
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2146386
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2146386
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2146386
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2146386
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2146386
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2146386
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2146386
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2146386
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2146386
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2146386
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2146386
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2146386
Ethanol	64-17-5	46.10	250	471	1370	2580		100	WG2146386
Ethylbenzene	100-41-4	106	20.0	86.7	26.3	114		100	WG2146386
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2146386
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2146386
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2146386
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2146386
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2146386
Heptane	142-82-5	100	20.0	81.8	2720	11100		100	WG2146386
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2146386
n-Hexane	110-54-3	86.20	630	2220	31400	111000		1000	WG2147368
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2146386
Methylene Chloride	75-09-2	84.90	20.0	69.4	70.9	246		100	WG2146386
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2146386
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2146386
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2146386
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2146386
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2146386
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2146386
2-Propanol	67-63-0	60.10	125	307	ND	ND		100	WG2146386
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2146386
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2146386
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2146386
Tetrachloroethylene	127-18-4	166	20.0	136	59.7	405		100	WG2146386
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2146386
Toluene	108-88-3	92.10	50.0	188	70.6	266		100	WG2146386
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2146386

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 10/02/23 12:20 L1662733

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	WG2146386
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2146386
Trichloroethylene	79-01-6	131	20.0	107	113	605		100	WG2146386
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	25.0	123		100	WG2146386
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	24.1	118		100	WG2146386
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2146386
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2146386
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2146386
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2146386
m&p-Xylene	1330-20-7	106	40.0	173	119	516		100	WG2146386
o-Xylene	95-47-6	106	20.0	86.7	97.4	422		100	WG2146386
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	244000	1010000		100	WG2146386
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2146386
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		78.4				WG2147368

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1662733-01

Method Blank (MB)

(MB) R3983283-3 10/06/23 09:04

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	0.0597	U	0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.964	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1662733-01

Method Blank (MB)

(MB) R3983283-3 10/06/23 09:04

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	50.6	U	39.7	200
(S) 1,4-Bromofluorobenzene	87.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3983283-1 10/06/23 08:07 • (LCSD) R3983283-2 10/06/23 08:36

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	3.77	3.78	101	101	70.0-130			0.265	25
Allyl chloride	3.75	3.47	3.50	92.5	93.3	70.0-130			0.861	25
Benzene	3.75	3.66	3.69	97.6	98.4	70.0-130			0.816	25
Benzyl Chloride	3.75	3.48	3.52	92.8	93.9	70.0-152			1.14	25
Bromodichloromethane	3.75	3.69	3.70	98.4	98.7	70.0-130			0.271	25
Bromoform	3.75	3.65	3.72	97.3	99.2	70.0-130			1.90	25

Volatile Organic Compounds (MS) by Method TO-15

L1662733-01

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

(LCS) R3983283-1 10/06/23 08:07 • (LCSD) R3983283-2 10/06/23 08:36

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	3.60	3.63	96.0	96.8	70.0-130			0.830	25
1,3-Butadiene	3.75	3.63	3.73	96.8	99.5	70.0-130			2.72	25
Carbon disulfide	3.75	3.74	3.80	99.7	101	70.0-130			1.59	25
Carbon tetrachloride	3.75	3.63	3.68	96.8	98.1	70.0-130			1.37	25
Chlorobenzene	3.75	3.63	3.69	96.8	98.4	70.0-130			1.64	25
Chloroethane	3.75	3.47	3.73	92.5	99.5	70.0-130			7.22	25
Chloroform	3.75	3.68	3.68	98.1	98.1	70.0-130			0.000	25
Chloromethane	3.75	3.51	3.52	93.6	93.9	70.0-130			0.284	25
2-Chlorotoluene	3.75	3.85	3.90	103	104	70.0-130			1.29	25
Dibromochloromethane	3.75	3.69	3.74	98.4	99.7	70.0-130			1.35	25
1,2-Dibromoethane	3.75	3.71	3.77	98.9	101	70.0-130			1.60	25
1,2-Dichlorobenzene	3.75	4.23	4.25	113	113	70.0-130			0.472	25
1,3-Dichlorobenzene	3.75	4.37	4.36	117	116	70.0-130			0.229	25
1,4-Dichlorobenzene	3.75	4.28	4.40	114	117	70.0-130			2.76	25
1,2-Dichloroethane	3.75	3.59	3.66	95.7	97.6	70.0-130			1.93	25
1,1-Dichloroethane	3.75	3.56	3.68	94.9	98.1	70.0-130			3.31	25
1,1-Dichloroethene	3.75	3.66	3.73	97.6	99.5	70.0-130			1.89	25
cis-1,2-Dichloroethene	3.75	3.65	3.76	97.3	100	70.0-130			2.97	25
trans-1,2-Dichloroethene	3.75	3.71	3.67	98.9	97.9	70.0-130			1.08	25
1,2-Dichloropropane	3.75	3.68	3.63	98.1	96.8	70.0-130			1.37	25
cis-1,3-Dichloropropene	3.75	3.65	3.71	97.3	98.9	70.0-130			1.63	25
trans-1,3-Dichloropropene	3.75	3.73	3.77	99.5	101	70.0-130			1.07	25
1,4-Dioxane	3.75	3.70	3.69	98.7	98.4	70.0-140			0.271	25
Ethanol	3.75	3.92	3.95	105	105	55.0-148			0.762	25
Ethylbenzene	3.75	3.79	3.84	101	102	70.0-130			1.31	25
4-Ethyltoluene	3.75	4.16	4.19	111	112	70.0-130			0.719	25
Trichlorofluoromethane	3.75	3.65	3.70	97.3	98.7	70.0-130			1.36	25
Dichlorodifluoromethane	3.75	3.63	3.69	96.8	98.4	64.0-139			1.64	25
1,1,2-Trichlorotrifluoroethane	3.75	3.68	3.78	98.1	101	70.0-130			2.68	25
1,2-Dichlorotetrafluoroethane	3.75	3.74	3.74	99.7	99.7	70.0-130			0.000	25
Heptane	3.75	3.67	3.80	97.9	101	70.0-130			3.48	25
Hexachloro-1,3-butadiene	3.75	3.99	4.04	106	108	70.0-151			1.25	25
Isopropylbenzene	3.75	3.85	3.91	103	104	70.0-130			1.55	25
Methylene Chloride	3.75	3.57	3.60	95.2	96.0	70.0-130			0.837	25
Methyl Butyl Ketone	3.75	3.62	3.68	96.5	98.1	70.0-149			1.64	25
2-Butanone (MEK)	3.75	3.76	3.74	100	99.7	70.0-130			0.533	25
4-Methyl-2-pentanone (MIBK)	3.75	3.61	3.92	96.3	105	70.0-139			8.23	25
Methyl methacrylate	3.75	3.81	3.92	102	105	70.0-130			2.85	25
MTBE	3.75	3.60	3.69	96.0	98.4	70.0-130			2.47	25
Naphthalene	3.75	3.51	3.58	93.6	95.5	70.0-159			1.97	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3983283-1 10/06/23 08:07 • (LCSD) R3983283-2 10/06/23 08:36

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	3.67	3.82	97.9	102	70.0-139			4.01	25
Propene	3.75	3.73	3.84	99.5	102	64.0-144			2.91	25
Styrene	3.75	3.95	4.01	105	107	70.0-130			1.51	25
1,1,2,2-Tetrachloroethane	3.75	3.92	3.92	105	105	70.0-130			0.000	25
Tetrachloroethylene	3.75	3.67	3.66	97.9	97.6	70.0-130			0.273	25
Tetrahydrofuran	3.75	3.70	3.82	98.7	102	70.0-137			3.19	25
Toluene	3.75	3.73	3.74	99.5	99.7	70.0-130			0.268	25
1,2,4-Trichlorobenzene	3.75	3.76	3.83	100	102	70.0-160			1.84	25
1,1,1-Trichloroethane	3.75	3.59	3.71	95.7	98.9	70.0-130			3.29	25
1,1,2-Trichloroethane	3.75	3.63	3.70	96.8	98.7	70.0-130			1.91	25
Trichloroethylene	3.75	3.63	3.71	96.8	98.9	70.0-130			2.18	25
1,2,4-Trimethylbenzene	3.75	4.14	4.23	110	113	70.0-130			2.15	25
1,3,5-Trimethylbenzene	3.75	3.99	4.08	106	109	70.0-130			2.23	25
2,2,4-Trimethylpentane	3.75	3.67	3.75	97.9	100	70.0-130			2.16	25
Vinyl chloride	3.75	3.68	3.71	98.1	98.9	70.0-130			0.812	25
Vinyl Bromide	3.75	3.67	3.74	97.9	99.7	70.0-130			1.89	25
Vinyl acetate	3.75	3.47	3.50	92.5	93.3	70.0-130			0.861	25
m&p-Xylene	7.50	7.92	8.05	106	107	70.0-130			1.63	25
o-Xylene	3.75	3.98	4.13	106	110	70.0-130			3.70	25
TPH (GC/MS) Low Fraction	188	185	186	98.4	98.9	70.0-130			0.539	25
(S) 1,4-Bromofluorobenzene				101	101	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1662733-01](#)

Method Blank (MB)

(MB) R3983668-3 10/08/23 11:57

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	86.6			60.0-140

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

(LCS) R3983668-1 10/08/23 10:18 • (LCSD) R3983668-2 10/08/23 11:07

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	4.11	4.34	110	116	70.0-130			5.44	25
n-Hexane	3.75	4.14	4.19	110	112	70.0-130			1.20	25
(S) 1,4-Bromofluorobenzene				103	97.3	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

JThe identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

[illegible]

10/4-NCF-L1662733 ENSOLUMMTX TD

R5

Time estimate: oh

Time spent: oh

Members

☒ Troy Dunlap (responsible) ☒ MB Mark Beasley

- ☐ Login Clarification needed
- ☐ Chain of custody is incomplete
- ☐ Please specify Metals requested
- ☐ Please specify TCLP requested
- ☐ Received additional samples not listed on COC
- ☐ Sample IDs on containers do not match IDs on COC
- ☐ Client did not "X" analysis
- ☒ Chain of Custody is missing
- ☐ If no COC: Received by: _____
- ☐ If no COC: Date/Time: _____
- ☐ If no COC: Temp./Cont.Rec./pH: _____
- ☐ If no COC: Carrier: _____
- ☐ If no COC: Tracking #: _____
- ☐ Client informed by call
- ☐ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: 10/4/23 _____
- ☐ PM initials: MB _____
- ☐ Client Contact: Beaux Jennings _____

Comments

Troy Dunlap COC is missing. ID: Levey Well collected 9/22/23 at 1200 03B1417001	4 October 2023 12:57 PM
Mark Beasley See attached COC	4 October 2023 5:07 PM
Troy Dunlap Done.	4 October 2023 5:46 PM



ANALYTICAL REPORT

October 19, 2023

Ensolum, LLC

Sample Delivery Group: L1665682
Samples Received: 10/12/2023
Project Number: 03B1417001
Description: LEVEY WELL
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

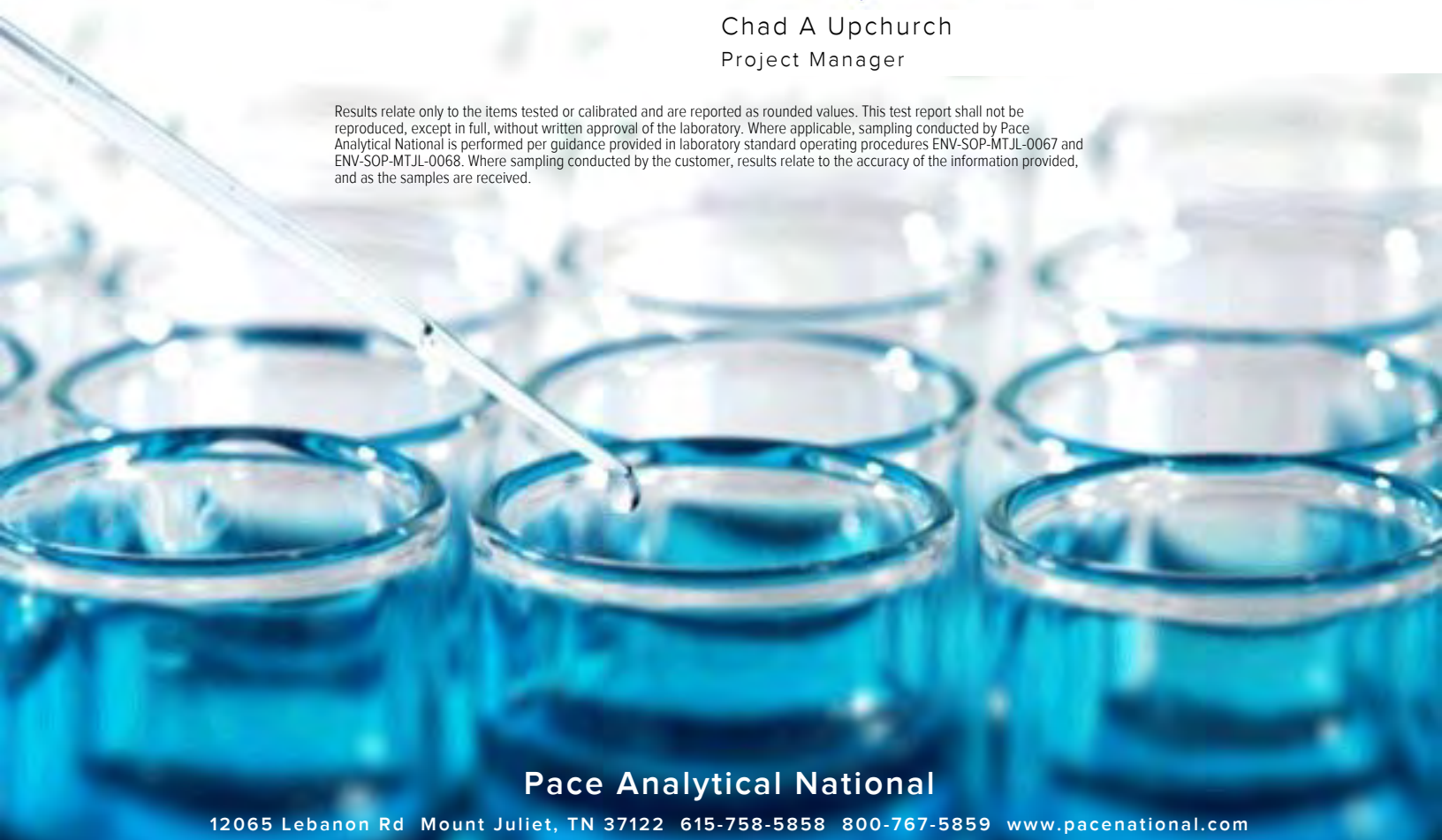


Entire Report Reviewed By:

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	⁶ Sr
LEVEY WELL L1665682-01	9	
LEVEY WELL L1665682-02	11	
LEVEY WELL L1665682-03	13	⁷ Qc
LEVEY WELL L1665682-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	29	
Al: Accreditations & Locations	30	¹⁰ Sc
Sc: Sample Chain of Custody	31	

LEVEY WELL L1665682-01 Air

Collected by
Shane Diller

Collected date/time
10/09/23 08:00

Received date/time
10/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2152968	10000	10/18/23 02:08	10/18/23 02:08	MNP	Mt. Juliet, TN

¹Cp

²Tc

LEVEY WELL L1665682-02 Air

Collected by
Shane Diller

Collected date/time
10/09/23 09:12

Received date/time
10/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2151642	100	10/16/23 02:17	10/16/23 02:17	CEP	Mt. Juliet, TN

³Ss

⁴Cn

⁵Tr

LEVEY WELL L1665682-03 Air

Collected by
Shane Diller

Collected date/time
10/09/23 11:00

Received date/time
10/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2151642	100	10/16/23 02:56	10/16/23 02:56	CEP	Mt. Juliet, TN

⁶Sr

⁷Qc

⁸Gl

LEVEY WELL L1665682-04 Air

Collected by
Shane Diller

Collected date/time
10/09/23 11:19

Received date/time
10/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2150876	100	10/13/23 23:07	10/13/23 23:07	SDS	Mt. Juliet, TN

⁹Al

¹⁰Sc

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



Chad A Upchurch
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

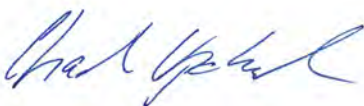
⁹ Al

¹⁰ Sc

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

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

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



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 10/19/2023 11:47					
Project Name: LEVEY WELL		Laboratory Job Number: L1665682-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2150876, WG2151642 and WG2152968					
# 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: 10/19/2023 11:47				
Project Name: LEVEY WELL			Laboratory Job Number: L1665682-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2150876, WG2151642 and WG2152968				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 10/19/2023 11:47	
Project Name: LEVEY WELL		Laboratory Job Number: L1665682-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2150876, WG2151642 and WG2152968	
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: 10/09/23 08:00

L1665682

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch	
Analyte			ppbv	ug/m3	ppbv	ug/m3				
Acetone	67-64-1	58.10	12500	29700	ND	ND		10000	WG2152968	¹ Cp
Allyl chloride	107-05-1	76.53	2000	6260	ND	ND		10000	WG2152968	² Tc
Benzene	71-43-2	78.10	2000	6390	ND	ND		10000	WG2152968	³ Ss
Benzyl Chloride	100-44-7	127	2000	10400	ND	ND		10000	WG2152968	⁴ Cn
Bromodichloromethane	75-27-4	164	2000	13400	ND	ND		10000	WG2152968	⁵ Tr
Bromoform	75-25-2	253	6000	62100	ND	ND		10000	WG2152968	⁶ Sr
Bromomethane	74-83-9	94.90	2000	7760	ND	ND		10000	WG2152968	⁷ Qc
1,3-Butadiene	106-99-0	54.10	20000	44300	ND	ND		10000	WG2152968	⁸ Gl
Carbon disulfide	75-15-0	76.10	2000	6220	5750	17900		10000	WG2152968	⁹ Al
Carbon tetrachloride	56-23-5	154	2000	12600	ND	ND		10000	WG2152968	¹⁰ Sc
Chlorobenzene	108-90-7	113	2000	9240	ND	ND		10000	WG2152968	
Chloroethane	75-00-3	64.50	2000	5280	ND	ND		10000	WG2152968	
Chloroform	67-66-3	119	2000	9730	ND	ND		10000	WG2152968	
Chloromethane	74-87-3	50.50	2000	4130	ND	ND		10000	WG2152968	
2-Chlorotoluene	95-49-8	126	2000	10300	ND	ND		10000	WG2152968	
Cyclohexane	110-82-7	84.20	2000	6890	31800	110000		10000	WG2152968	
Dibromochloromethane	124-48-1	208	2000	17000	ND	ND		10000	WG2152968	
1,2-Dibromoethane	106-93-4	188	2000	15400	ND	ND		10000	WG2152968	
1,2-Dichlorobenzene	95-50-1	147	2000	12000	ND	ND		10000	WG2152968	
1,3-Dichlorobenzene	541-73-1	147	2000	12000	ND	ND		10000	WG2152968	
1,4-Dichlorobenzene	106-46-7	147	2000	12000	ND	ND		10000	WG2152968	
1,2-Dichloroethane	107-06-2	99	2000	8100	ND	ND		10000	WG2152968	
1,1-Dichloroethane	75-34-3	98	2000	8020	ND	ND		10000	WG2152968	
1,1-Dichloroethene	75-35-4	96.90	2000	7930	ND	ND		10000	WG2152968	
cis-1,2-Dichloroethene	156-59-2	96.90	2000	7930	ND	ND		10000	WG2152968	
trans-1,2-Dichloroethene	156-60-5	96.90	2000	7930	ND	ND		10000	WG2152968	
1,2-Dichloropropane	78-87-5	113	2000	9240	ND	ND		10000	WG2152968	
cis-1,3-Dichloropropene	10061-01-5	111	2000	9080	ND	ND		10000	WG2152968	
trans-1,3-Dichloropropene	10061-02-6	111	2000	9080	ND	ND		10000	WG2152968	
1,4-Dioxane	123-91-1	88.10	6300	22700	ND	ND		10000	WG2152968	
Ethanol	64-17-5	46.10	25000	47100	156000	294000		10000	WG2152968	
Ethylbenzene	100-41-4	106	2000	8670	ND	ND		10000	WG2152968	
4-Ethyltoluene	622-96-8	120	2000	9820	ND	ND		10000	WG2152968	
Trichlorofluoromethane	75-69-4	137.40	2000	11200	ND	ND		10000	WG2152968	
Dichlorodifluoromethane	75-71-8	120.92	2000	9890	ND	ND		10000	WG2152968	
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	2000	15300	ND	ND		10000	WG2152968	
1,2-Dichlorotetrafluoroethane	76-14-2	171	2000	14000	ND	ND		10000	WG2152968	
Heptane	142-82-5	100	2000	8180	9010	36900		10000	WG2152968	
Hexachloro-1,3-butadiene	87-68-3	261	6300	67300	ND	ND		10000	WG2152968	
n-Hexane	110-54-3	86.20	6300	22200	376000	1330000		10000	WG2152968	
Isopropylbenzene	98-82-8	120.20	2000	9830	ND	ND		10000	WG2152968	
Methylene Chloride	75-09-2	84.90	2000	6940	5900	20500		10000	WG2152968	
Methyl Butyl Ketone	591-78-6	100	12500	51100	ND	ND		10000	WG2152968	
2-Butanone (MEK)	78-93-3	72.10	12500	36900	ND	ND		10000	WG2152968	
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	12500	51200	ND	ND		10000	WG2152968	
Methyl methacrylate	80-62-6	100.12	2000	8190	13600	55700		10000	WG2152968	
MTBE	1634-04-4	88.10	2000	7210	ND	ND		10000	WG2152968	
Naphthalene	91-20-3	128	6300	33000	ND	ND		10000	WG2152968	
2-Propanol	67-63-0	60.10	12500	30700	445000	1090000		10000	WG2152968	
Propene	115-07-1	42.10	12500	21500	ND	ND		10000	WG2152968	
Styrene	100-42-5	104	2000	8510	ND	ND		10000	WG2152968	
1,1,2,2-Tetrachloroethane	79-34-5	168	2000	13700	ND	ND		10000	WG2152968	
Tetrachloroethylene	127-18-4	166	2000	13600	8630	58600	B	10000	WG2152968	
Tetrahydrofuran	109-99-9	72.10	2000	5900	ND	ND		10000	WG2152968	
Toluene	108-88-3	92.10	5000	18800	12900	48600		10000	WG2152968	
1,2,4-Trichlorobenzene	120-82-1	181	6300	46600	ND	ND		10000	WG2152968	

Collected date/time: 10/09/23 08:00

L1665682

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	2000	10900	ND	ND		10000	WG2152968
1,1,2-Trichloroethane	79-00-5	133	2000	10900	ND	ND		10000	WG2152968
Trichloroethylene	79-01-6	131	2000	10700	ND	ND		10000	WG2152968
1,2,4-Trimethylbenzene	95-63-6	120	2000	9820	ND	ND		10000	WG2152968
1,3,5-Trimethylbenzene	108-67-8	120	2000	9820	ND	ND		10000	WG2152968
2,2,4-Trimethylpentane	540-84-1	114.22	2000	9340	2250	10500		10000	WG2152968
Vinyl chloride	75-01-4	62.50	2000	5110	ND	ND		10000	WG2152968
Vinyl Bromide	593-60-2	106.95	2000	8750	ND	ND		10000	WG2152968
Vinyl acetate	108-05-4	86.10	6300	22200	ND	ND		10000	WG2152968
m&p-Xylene	1330-20-7	106	4000	17300	4020	17400		10000	WG2152968
o-Xylene	95-47-6	106	2000	8670	ND	ND		10000	WG2152968
TPH (GC/MS) Low Fraction	8006-61-9	101	2000000	8260000	ND	ND		10000	WG2152968
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2152968

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 10/09/23 09:12

L1665682

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	1470	3490		100	WG2151642
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2151642
Benzene	71-43-2	78.10	20.0	63.9	110	351		100	WG2151642
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2151642
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2151642
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2151642
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2151642
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2151642
Carbon disulfide	75-15-0	76.10	20.0	62.2	146	454	B	100	WG2151642
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2151642
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2151642
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2151642
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2151642
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2151642
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2151642
Cyclohexane	110-82-7	84.20	20.0	68.9	655	2260		100	WG2151642
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2151642
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2151642
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2151642
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2151642
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2151642
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2151642
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2151642
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2151642
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	117	464		100	WG2151642
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	29.2	116		100	WG2151642
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2151642
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2151642
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2151642
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2151642
Ethanol	64-17-5	46.10	250	471	3950	7450		100	WG2151642
Ethylbenzene	100-41-4	106	20.0	86.7	72.8	316		100	WG2151642
4-Ethyltoluene	622-96-8	120	20.0	98.2	50.1	246		100	WG2151642
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2151642
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2151642
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2151642
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2151642
Heptane	142-82-5	100	20.0	81.8	893	3650		100	WG2151642
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2151642
n-Hexane	110-54-3	86.20	63.0	222	3860	13600		100	WG2151642
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2151642
Methylene Chloride	75-09-2	84.90	20.0	69.4	121	420	B	100	WG2151642
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2151642
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2151642
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2151642
Methyl methacrylate	80-62-6	100.12	20.0	81.9	68.5	280		100	WG2151642
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2151642
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2151642
2-Propanol	67-63-0	60.10	125	307	9550	23500		100	WG2151642
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2151642
Styrene	100-42-5	104	20.0	85.1	63.7	271		100	WG2151642
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2151642
Tetrachloroethylene	127-18-4	166	20.0	136	273	1850		100	WG2151642
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2151642
Toluene	108-88-3	92.10	50.0	188	687	2590		100	WG2151642
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2151642



Collected date/time: 10/09/23 09:12

L1665682

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	WG2151642
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2151642
Trichloroethylene	79-01-6	131	20.0	107	1570	8410		100	WG2151642
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	55.1	270		100	WG2151642
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2151642
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2151642
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2151642
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2151642
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2151642
m&p-Xylene	1330-20-7	106	40.0	173	266	1150		100	WG2151642
o-Xylene	95-47-6	106	20.0	86.7	77.1	334		100	WG2151642
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	24400	101000		100	WG2151642
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2151642

Sample Narrative:

L1665682-02 WG2151642: Non-target compounds too high to run at a lower dilution.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Collected date/time: 10/09/23 11:00

L1665682

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	1530	3640		100	WG2151642
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2151642
Benzene	71-43-2	78.10	20.0	63.9	52.5	168		100	WG2151642
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2151642
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2151642
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2151642
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2151642
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2151642
Carbon disulfide	75-15-0	76.10	20.0	62.2	152	473	B	100	WG2151642
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2151642
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2151642
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2151642
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2151642
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2151642
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2151642
Cyclohexane	110-82-7	84.20	20.0	68.9	811	2790		100	WG2151642
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2151642
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2151642
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2151642
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2151642
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2151642
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2151642
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2151642
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2151642
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	20.7	82.0		100	WG2151642
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	22.6	89.6		100	WG2151642
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2151642
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2151642
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2151642
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2151642
Ethanol	64-17-5	46.10	250	471	3220	6070		100	WG2151642
Ethylbenzene	100-41-4	106	20.0	86.7	82.9	359		100	WG2151642
4-Ethyltoluene	622-96-8	120	20.0	98.2	58.4	287		100	WG2151642
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2151642
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2151642
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2151642
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2151642
Heptane	142-82-5	100	20.0	81.8	ND	ND		100	WG2151642
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2151642
n-Hexane	110-54-3	86.20	63.0	222	4540	16000		100	WG2151642
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2151642
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2151642
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2151642
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2151642
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2151642
Methyl methacrylate	80-62-6	100.12	20.0	81.9	161	659		100	WG2151642
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2151642
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2151642
2-Propanol	67-63-0	60.10	125	307	2280	5600		100	WG2151642
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2151642
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2151642
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2151642
Tetrachloroethylene	127-18-4	166	20.0	136	47.5	322		100	WG2151642
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2151642
Toluene	108-88-3	92.10	50.0	188	512	1930		100	WG2151642
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2151642

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 10/09/23 11:00

L1665682

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	WG2151642
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2151642
Trichloroethylene	79-01-6	131	20.0	107	119	638		100	WG2151642
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	54.9	269		100	WG2151642
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2151642
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2151642
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2151642
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2151642
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2151642
m&p-Xylene	1330-20-7	106	40.0	173	335	1450		100	WG2151642
o-Xylene	95-47-6	106	20.0	86.7	101	438		100	WG2151642
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	30900	128000		100	WG2151642
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2151642

Sample Narrative:

L1665682-03 WG2151642: Non-target compounds too high to run at a lower dilution.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 10/09/23 11:19

L1665682

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	871	2070		100	WG2150876
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2150876
Benzene	71-43-2	78.10	20.0	63.9	31.2	99.7		100	WG2150876
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2150876
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2150876
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2150876
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2150876
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2150876
Carbon disulfide	75-15-0	76.10	20.0	62.2	58.3	181		100	WG2150876
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2150876
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2150876
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2150876
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2150876
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2150876
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2150876
Cyclohexane	110-82-7	84.20	20.0	68.9	579	1990		100	WG2150876
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2150876
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2150876
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2150876
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2150876
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2150876
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2150876
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2150876
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2150876
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	38.9	154		100	WG2150876
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2150876
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2150876
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2150876
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2150876
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2150876
Ethanol	64-17-5	46.10	250	471	1140	2150		100	WG2150876
Ethylbenzene	100-41-4	106	20.0	86.7	50.3	218		100	WG2150876
4-Ethyltoluene	622-96-8	120	20.0	98.2	43.3	213		100	WG2150876
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2150876
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2150876
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2150876
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2150876
Heptane	142-82-5	100	20.0	81.8	518	2120		100	WG2150876
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2150876
n-Hexane	110-54-3	86.20	63.0	222	3130	11000		100	WG2150876
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2150876
Methylene Chloride	75-09-2	84.90	20.0	69.4	50.9	177		100	WG2150876
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2150876
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2150876
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2150876
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2150876
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2150876
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2150876
2-Propanol	67-63-0	60.10	125	307	1250	3070		100	WG2150876
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2150876
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2150876
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2150876
Tetrachloroethylene	127-18-4	166	20.0	136	65.0	441		100	WG2150876
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2150876
Toluene	108-88-3	92.10	50.0	188	278	1050		100	WG2150876
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2150876

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 10/09/23 11:19

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	WG2150876
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2150876
Trichloroethylene	79-01-6	131	20.0	107	416	2230		100	WG2150876
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	44.2	217		100	WG2150876
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2150876
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2150876
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2150876
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2150876
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2150876
m&p-Xylene	1330-20-7	106	40.0	173	224	971		100	WG2150876
o-Xylene	95-47-6	106	20.0	86.7	72.3	313		100	WG2150876
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2150876
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		91.5				WG2150876

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R3986093-3 10/13/23 10:55

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	0.285	U	0.265	2.50
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

L1665682-04

Method Blank (MB)

(MB) R3986093-3 10/13/23 10:55

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
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	104			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3986093-1 10/13/23 09:36 • (LCSD) R3986093-2 10/13/23 10:16

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	3.57	3.62	95.2	96.5	70.0-130			1.39	25
Allyl chloride	3.75	3.74	3.80	99.7	101	70.0-130			1.59	25
Benzene	3.75	3.69	3.77	98.4	101	70.0-130			2.14	25
Benzyl Chloride	3.75	3.69	3.69	98.4	98.4	70.0-152			0.000	25

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

(LCS) R3986093-1 10/13/23 09:36 • (LCSD) R3986093-2 10/13/23 10:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.66	3.72	97.6	99.2	70.0-130			1.63	25
Bromoform	3.75	3.30	3.35	88.0	89.3	70.0-130			1.50	25
Bromomethane	3.75	3.78	3.85	101	103	70.0-130			1.83	25
1,3-Butadiene	3.75	3.76	3.87	100	103	70.0-130			2.88	25
Carbon disulfide	3.75	3.74	3.76	99.7	100	70.0-130			0.533	25
Carbon tetrachloride	3.75	3.60	3.60	96.0	96.0	70.0-130			0.000	25
Chlorobenzene	3.75	3.60	3.66	96.0	97.6	70.0-130			1.65	25
Chloroethane	3.75	3.89	3.88	104	103	70.0-130			0.257	25
Chloroform	3.75	3.69	3.69	98.4	98.4	70.0-130			0.000	25
Chloromethane	3.75	3.91	3.87	104	103	70.0-130			1.03	25
2-Chlorotoluene	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25
Cyclohexane	3.75	3.72	3.73	99.2	99.5	70.0-130			0.268	25
Dibromochloromethane	3.75	3.53	3.58	94.1	95.5	70.0-130			1.41	25
1,2-Dibromoethane	3.75	3.61	3.71	96.3	98.9	70.0-130			2.73	25
1,2-Dichlorobenzene	3.75	3.69	3.62	98.4	96.5	70.0-130			1.92	25
1,3-Dichlorobenzene	3.75	3.62	3.63	96.5	96.8	70.0-130			0.276	25
1,4-Dichlorobenzene	3.75	3.63	3.59	96.8	95.7	70.0-130			1.11	25
1,2-Dichloroethane	3.75	3.70	3.68	98.7	98.1	70.0-130			0.542	25
1,1-Dichloroethane	3.75	3.79	3.76	101	100	70.0-130			0.795	25
1,1-Dichloroethene	3.75	3.61	3.62	96.3	96.5	70.0-130			0.277	25
cis-1,2-Dichloroethene	3.75	3.72	3.73	99.2	99.5	70.0-130			0.268	25
trans-1,2-Dichloroethene	3.75	3.71	3.73	98.9	99.5	70.0-130			0.538	25
1,2-Dichloropropane	3.75	3.69	3.75	98.4	100	70.0-130			1.61	25
cis-1,3-Dichloropropene	3.75	3.66	3.67	97.6	97.9	70.0-130			0.273	25
trans-1,3-Dichloropropene	3.75	3.62	3.68	96.5	98.1	70.0-130			1.64	25
1,4-Dioxane	3.75	3.77	3.80	101	101	70.0-140			0.793	25
Ethanol	3.75	3.85	3.87	103	103	55.0-148			0.518	25
Ethylbenzene	3.75	3.58	3.63	95.5	96.8	70.0-130			1.39	25
4-Ethyltoluene	3.75	3.73	3.71	99.5	98.9	70.0-130			0.538	25
Trichlorofluoromethane	3.75	3.42	3.48	91.2	92.8	70.0-130			1.74	25
Dichlorodifluoromethane	3.75	3.78	3.82	101	102	64.0-139			1.05	25
1,1,2-Trichlorotrifluoroethane	3.75	3.50	3.51	93.3	93.6	70.0-130			0.285	25
1,2-Dichlorotetrafluoroethane	3.75	3.83	3.79	102	101	70.0-130			1.05	25
Heptane	3.75	3.75	3.79	100	101	70.0-130			1.06	25
Hexachloro-1,3-butadiene	3.75	3.36	3.41	89.6	90.9	70.0-151			1.48	25
n-Hexane	3.75	4.10	4.04	109	108	70.0-130			1.47	25
Isopropylbenzene	3.75	3.66	3.62	97.6	96.5	70.0-130			1.10	25
Methylene Chloride	3.75	3.71	3.73	98.9	99.5	70.0-130			0.538	25
Methyl Butyl Ketone	3.75	3.86	3.86	103	103	70.0-149			0.000	25
2-Butanone (MEK)	3.75	3.80	3.88	101	103	70.0-130			2.08	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3986093-1 10/13/23 09:36 • (LCSD) R3986093-2 10/13/23 10:16

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	3.93	3.95	105	105	70.0-139			0.508	25
Methyl methacrylate	3.75	3.52	3.76	93.9	100	70.0-130			6.59	25
MTBE	3.75	3.75	3.75	100	100	70.0-130			0.000	25
Naphthalene	3.75	3.57	3.70	95.2	98.7	70.0-159			3.58	25
2-Propanol	3.75	3.73	3.73	99.5	99.5	70.0-139			0.000	25
Propene	3.75	3.83	3.86	102	103	64.0-144			0.780	25
Styrene	3.75	3.64	3.59	97.1	95.7	70.0-130			1.38	25
1,1,2,2-Tetrachloroethane	3.75	3.83	3.78	102	101	70.0-130			1.31	25
Tetrachloroethylene	3.75	3.50	3.48	93.3	92.8	70.0-130			0.573	25
Tetrahydrofuran	3.75	3.90	3.87	104	103	70.0-137			0.772	25
Toluene	3.75	3.64	3.72	97.1	99.2	70.0-130			2.17	25
1,2,4-Trichlorobenzene	3.75	3.40	3.52	90.7	93.9	70.0-160			3.47	25
1,1,1-Trichloroethane	3.75	3.65	3.68	97.3	98.1	70.0-130			0.819	25
1,1,2-Trichloroethane	3.75	3.60	3.64	96.0	97.1	70.0-130			1.10	25
Trichloroethylene	3.75	3.62	3.64	96.5	97.1	70.0-130			0.551	25
1,2,4-Trimethylbenzene	3.75	3.72	3.69	99.2	98.4	70.0-130			0.810	25
1,3,5-Trimethylbenzene	3.75	3.74	3.72	99.7	99.2	70.0-130			0.536	25
2,2,4-Trimethylpentane	3.75	3.83	3.85	102	103	70.0-130			0.521	25
Vinyl chloride	3.75	3.92	3.97	105	106	70.0-130			1.27	25
Vinyl Bromide	3.75	3.52	3.47	93.9	92.5	70.0-130			1.43	25
Vinyl acetate	3.75	3.89	3.85	104	103	70.0-130			1.03	25
m&p-Xylene	7.50	7.25	7.29	96.7	97.2	70.0-130			0.550	25
o-Xylene	3.75	3.59	3.63	95.7	96.8	70.0-130			1.11	25
TPH (GC/MS) Low Fraction	188	174	173	92.6	92.0	70.0-130			0.576	25
(S) 1,4-Bromofluorobenzene				102	100	60.0-140				

1
Cp

2
Tc

3
Ss

4
Cn

5
Tr

6
Sr

7
Qc

8
Gl

9
Al

10
Sc

Method Blank (MB)

(MB) R3987153-3 10/15/23 12:03

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	0.163	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	0.630
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3987153-3 10/15/23 12:03

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	0.130	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	0.630
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	101			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3987153-1 10/15/23 09:39 • (LCSD) R3987153-2 10/15/23 10:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.88	3.90	103	104	70.0-130			0.514	25
Allyl chloride	3.75	3.85	4.04	103	108	70.0-130			4.82	25
Benzene	3.75	3.89	3.90	104	104	70.0-130			0.257	25
Benzyl Chloride	3.75	4.03	3.98	107	106	70.0-152			1.25	25

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

(LCS) R3987153-1 10/15/23 09:39 • (LCSD) R3987153-2 10/15/23 10:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.90	3.89	104	104	70.0-130			0.257	25
Bromoform	3.75	4.01	4.11	107	110	70.0-130			2.46	25
Bromomethane	3.75	3.83	3.89	102	104	70.0-130			1.55	25
1,3-Butadiene	3.75	3.83	3.88	102	103	70.0-130			1.30	25
Carbon disulfide	3.75	3.54	3.61	94.4	96.3	70.0-130			1.96	25
Carbon tetrachloride	3.75	3.88	3.90	103	104	70.0-130			0.514	25
Chlorobenzene	3.75	4.00	4.02	107	107	70.0-130			0.499	25
Chloroethane	3.75	4.09	4.03	109	107	70.0-130			1.48	25
Chloroform	3.75	3.90	3.92	104	105	70.0-130			0.512	25
Chloromethane	3.75	3.92	3.99	105	106	70.0-130			1.77	25
2-Chlorotoluene	3.75	3.83	4.15	102	111	70.0-130			8.02	25
Cyclohexane	3.75	3.72	3.75	99.2	100	70.0-130			0.803	25
Dibromochloromethane	3.75	4.00	4.02	107	107	70.0-130			0.499	25
1,2-Dibromoethane	3.75	3.99	4.01	106	107	70.0-130			0.500	25
1,2-Dichlorobenzene	3.75	3.80	3.82	101	102	70.0-130			0.525	25
1,3-Dichlorobenzene	3.75	3.72	3.80	99.2	101	70.0-130			2.13	25
1,4-Dichlorobenzene	3.75	3.76	3.78	100	101	70.0-130			0.531	25
1,2-Dichloroethane	3.75	3.95	3.99	105	106	70.0-130			1.01	25
1,1-Dichloroethane	3.75	3.96	3.96	106	106	70.0-130			0.000	25
1,1-Dichloroethene	3.75	3.93	3.98	105	106	70.0-130			1.26	25
cis-1,2-Dichloroethene	3.75	3.95	3.96	105	106	70.0-130			0.253	25
trans-1,2-Dichloroethene	3.75	3.90	3.97	104	106	70.0-130			1.78	25
1,2-Dichloropropane	3.75	3.85	3.91	103	104	70.0-130			1.55	25
cis-1,3-Dichloropropene	3.75	3.90	3.96	104	106	70.0-130			1.53	25
trans-1,3-Dichloropropene	3.75	3.99	3.99	106	106	70.0-130			0.000	25
1,4-Dioxane	3.75	3.84	3.92	102	105	70.0-140			2.06	25
Ethanol	3.75	3.73	3.79	99.5	101	55.0-148			1.60	25
Ethylbenzene	3.75	4.10	4.14	109	110	70.0-130			0.971	25
4-Ethyltoluene	3.75	3.80	3.99	101	106	70.0-130			4.88	25
Trichlorofluoromethane	3.75	3.88	3.90	103	104	70.0-130			0.514	25
Dichlorodifluoromethane	3.75	3.80	3.85	101	103	64.0-139			1.31	25
1,1,2-Trichlorotrifluoroethane	3.75	3.86	3.89	103	104	70.0-130			0.774	25
1,2-Dichlorotetrafluoroethane	3.75	3.95	4.04	105	108	70.0-130			2.25	25
Heptane	3.75	3.90	3.92	104	105	70.0-130			0.512	25
Hexachloro-1,3-butadiene	3.75	3.75	3.80	100	101	70.0-151			1.32	25
n-Hexane	3.75	3.90	3.98	104	106	70.0-130			2.03	25
Isopropylbenzene	3.75	3.84	4.14	102	110	70.0-130			7.52	25
Methylene Chloride	3.75	3.34	3.37	89.1	89.9	70.0-130			0.894	25
Methyl Butyl Ketone	3.75	4.13	4.31	110	115	70.0-149			4.27	25
2-Butanone (MEK)	3.75	3.93	3.92	105	105	70.0-130			0.255	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3987153-1 10/15/23 09:39 • (LCSD) R3987153-2 10/15/23 10:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.02	4.06	107	108	70.0-139			0.990	25
Methyl methacrylate	3.75	3.88	3.83	103	102	70.0-130			1.30	25
MTBE	3.75	3.91	3.94	104	105	70.0-130			0.764	25
Naphthalene	3.75	4.06	4.08	108	109	70.0-159			0.491	25
2-Propanol	3.75	3.82	3.86	102	103	70.0-139			1.04	25
Propene	3.75	3.76	3.86	100	103	64.0-144			2.62	25
Styrene	3.75	3.94	4.04	105	108	70.0-130			2.51	25
1,1,2,2-Tetrachloroethane	3.75	3.76	3.98	100	106	70.0-130			5.68	25
Tetrachloroethylene	3.75	3.89	3.89	104	104	70.0-130			0.000	25
Tetrahydrofuran	3.75	3.89	3.92	104	105	70.0-137			0.768	25
Toluene	3.75	3.87	3.87	103	103	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	3.99	4.01	106	107	70.0-160			0.500	25
1,1,1-Trichloroethane	3.75	3.83	3.88	102	103	70.0-130			1.30	25
1,1,2-Trichloroethane	3.75	3.86	3.89	103	104	70.0-130			0.774	25
Trichloroethylene	3.75	3.86	3.89	103	104	70.0-130			0.774	25
1,2,4-Trimethylbenzene	3.75	3.83	3.83	102	102	70.0-130			0.000	25
1,3,5-Trimethylbenzene	3.75	3.77	3.87	101	103	70.0-130			2.62	25
2,2,4-Trimethylpentane	3.75	4.02	4.06	107	108	70.0-130			0.990	25
Vinyl chloride	3.75	3.85	3.90	103	104	70.0-130			1.29	25
Vinyl Bromide	3.75	3.79	3.84	101	102	70.0-130			1.31	25
Vinyl acetate	3.75	3.43	3.11	91.5	82.9	70.0-130			9.79	25
m&p-Xylene	7.50	8.26	8.34	110	111	70.0-130			0.964	25
o-Xylene	3.75	3.99	4.11	106	110	70.0-130			2.96	25
TPH (GC/MS) Low Fraction	188	183	186	97.3	98.9	70.0-130			1.63	25
(S) 1,4-Bromofluorobenzene				96.7	102	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3987475-3 10/17/23 11:25

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	0.630
Ethanol	1.23	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3987475-3 10/17/23 11:25

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	0.128	U	0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	0.0968	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	0.630
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	44.9	U	39.7	200
(S) 1,4-Bromofluorobenzene	102			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3987475-1 10/17/23 10:26 • (LCSD) R3987475-2 10/17/23 10:55

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	3.42	3.43	91.2	91.5	70.0-130			0.292	25
Allyl chloride	3.75	3.33	3.37	88.8	89.9	70.0-130			1.19	25
Benzene	3.75	3.51	3.52	93.6	93.9	70.0-130			0.284	25
Benzyl Chloride	3.75	3.88	3.98	103	106	70.0-152			2.54	25

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

(LCS) R3987475-1 10/17/23 10:26 • (LCSD) R3987475-2 10/17/23 10:55

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.68	3.69	98.1	98.4	70.0-130			0.271	25
Bromoform	3.75	3.79	3.87	101	103	70.0-130			2.09	25
Bromomethane	3.75	3.62	3.55	96.5	94.7	70.0-130			1.95	25
1,3-Butadiene	3.75	3.13	3.11	83.5	82.9	70.0-130			0.641	25
Carbon disulfide	3.75	3.50	3.51	93.3	93.6	70.0-130			0.285	25
Carbon tetrachloride	3.75	3.73	3.71	99.5	98.9	70.0-130			0.538	25
Chlorobenzene	3.75	3.88	3.86	103	103	70.0-130			0.517	25
Chloroethane	3.75	3.57	3.60	95.2	96.0	70.0-130			0.837	25
Chloroform	3.75	3.68	3.69	98.1	98.4	70.0-130			0.271	25
Chloromethane	3.75	3.25	3.23	86.7	86.1	70.0-130			0.617	25
2-Chlorotoluene	3.75	3.84	3.87	102	103	70.0-130			0.778	25
Cyclohexane	3.75	3.55	3.62	94.7	96.5	70.0-130			1.95	25
Dibromochloromethane	3.75	3.88	3.90	103	104	70.0-130			0.514	25
1,2-Dibromoethane	3.75	3.89	3.86	104	103	70.0-130			0.774	25
1,2-Dichlorobenzene	3.75	4.00	4.00	107	107	70.0-130			0.000	25
1,3-Dichlorobenzene	3.75	3.95	4.05	105	108	70.0-130			2.50	25
1,4-Dichlorobenzene	3.75	3.92	4.01	105	107	70.0-130			2.27	25
1,2-Dichloroethane	3.75	3.51	3.49	93.6	93.1	70.0-130			0.571	25
1,1-Dichloroethane	3.75	3.65	4.19	97.3	112	70.0-130			13.8	25
1,1-Dichloroethene	3.75	3.54	3.55	94.4	94.7	70.0-130			0.282	25
cis-1,2-Dichloroethene	3.75	3.54	3.55	94.4	94.7	70.0-130			0.282	25
trans-1,2-Dichloroethene	3.75	3.58	3.62	95.5	96.5	70.0-130			1.11	25
1,2-Dichloropropane	3.75	3.63	3.57	96.8	95.2	70.0-130			1.67	25
cis-1,3-Dichloropropene	3.75	3.61	3.99	96.3	106	70.0-130			10.0	25
trans-1,3-Dichloropropene	3.75	3.75	3.71	100	98.9	70.0-130			1.07	25
1,4-Dioxane	3.75	4.21	4.09	112	109	70.0-140			2.89	25
Ethanol	3.75	4.18	3.90	111	104	55.0-148			6.93	25
Ethylbenzene	3.75	3.76	3.74	100	99.7	70.0-130			0.533	25
4-Ethyltoluene	3.75	3.90	3.96	104	106	70.0-130			1.53	25
Trichlorofluoromethane	3.75	3.65	3.65	97.3	97.3	70.0-130			0.000	25
Dichlorodifluoromethane	3.75	3.48	3.54	92.8	94.4	64.0-139			1.71	25
1,1,2-Trichlorotrifluoroethane	3.75	3.76	3.78	100	101	70.0-130			0.531	25
1,2-Dichlorotetrafluoroethane	3.75	3.64	3.66	97.1	97.6	70.0-130			0.548	25
Heptane	3.75	3.28	3.29	87.5	87.7	70.0-130			0.304	25
Hexachloro-1,3-butadiene	3.75	3.97	4.04	106	108	70.0-151			1.75	25
n-Hexane	3.75	3.43	3.44	91.5	91.7	70.0-130			0.291	25
Isopropylbenzene	3.75	3.88	3.93	103	105	70.0-130			1.28	25
Methylene Chloride	3.75	3.23	3.21	86.1	85.6	70.0-130			0.621	25
Methyl Butyl Ketone	3.75	4.01	3.70	107	98.7	70.0-149			8.04	25
2-Butanone (MEK)	3.75	3.80	3.79	101	101	70.0-130			0.264	25

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

(LCS) R3987475-1 10/17/23 10:26 • (LCSD) R3987475-2 10/17/23 10:55

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.14	4.23	110	113	70.0-139			2.15	25
Methyl methacrylate	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25
MTBE	3.75	4.04	3.98	108	106	70.0-130			1.50	25
Naphthalene	3.75	3.99	3.92	106	105	70.0-159			1.77	25
2-Propanol	3.75	3.56	3.63	94.9	96.8	70.0-139			1.95	25
Propene	3.75	2.97	3.01	79.2	80.3	64.0-144			1.34	25
Styrene	3.75	3.86	3.85	103	103	70.0-130			0.259	25
1,1,2,2-Tetrachloroethane	3.75	3.84	3.82	102	102	70.0-130			0.522	25
Tetrachloroethylene	3.75	3.92	3.94	105	105	70.0-130			0.509	25
Tetrahydrofuran	3.75	3.48	3.48	92.8	92.8	70.0-137			0.000	25
Toluene	3.75	3.74	3.73	99.7	99.5	70.0-130			0.268	25
1,2,4-Trichlorobenzene	3.75	4.01	4.02	107	107	70.0-160			0.249	25
1,1,1-Trichloroethane	3.75	3.72	3.68	99.2	98.1	70.0-130			1.08	25
1,1,2-Trichloroethane	3.75	3.81	3.89	102	104	70.0-130			2.08	25
Trichloroethylene	3.75	3.60	3.65	96.0	97.3	70.0-130			1.38	25
1,2,4-Trimethylbenzene	3.75	3.97	4.04	106	108	70.0-130			1.75	25
1,3,5-Trimethylbenzene	3.75	3.89	3.96	104	106	70.0-130			1.78	25
2,2,4-Trimethylpentane	3.75	3.62	3.68	96.5	98.1	70.0-130			1.64	25
Vinyl chloride	3.75	3.51	3.44	93.6	91.7	70.0-130			2.01	25
Vinyl Bromide	3.75	3.78	3.74	101	99.7	70.0-130			1.06	25
Vinyl acetate	3.75	3.21	3.75	85.6	100	70.0-130			15.5	25
m&p-Xylene	7.50	7.52	7.55	100	101	70.0-130			0.398	25
o-Xylene	3.75	3.77	3.86	101	103	70.0-130			2.36	25
TPH (GC/MS) Low Fraction	188	203	206	108	110	70.0-130			1.47	25
(S) 1,4-Bromofluorobenzene				101	103	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

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Released to Imaging: 4/22/2024 11:20:02 AM



ANALYTICAL REPORT

October 30, 2023

Ensolum, LLC

Sample Delivery Group: L1668207

Samples Received: 10/19/2023

Project Number: 03B1417001

Description: Levey Well

Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

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

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1668207-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	15	⁸ Gl
Al: Accreditations & Locations	16	
Sc: Sample Chain of Custody	17	⁹ Al
		¹⁰ Sc

LEVEY WELL L1668207-01 Air

Collected by
Shane Diller

Collected date/time
10/17/23 12:07

Received date/time
10/19/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2156338	100	10/23/23 21:53	10/23/23 21:53	MBF	Mt. Juliet, TN

¹Cp

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



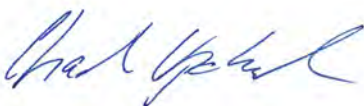
Chad A Upchurch
Project Manager

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

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

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

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



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 10/30/2023 17:21				
Project Name: Levey Well			Laboratory Job Number: L1668207-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2156338				
# 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: 10/30/2023 17:21					
Project Name: Levey Well		Laboratory Job Number: L1668207-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2156338					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 10/30/2023 17:21	
Project Name: Levey Well		Laboratory Job Number: L1668207-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2156338	
ER #¹	Description		
1	TO-15 WG2156338 L1668207-01: 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: 10/17/23 12:07

L1668207

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	1260	2990		100	WG2156338
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2156338
Benzene	71-43-2	78.10	20.0	63.9	110	351		100	WG2156338
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2156338
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2156338
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2156338
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2156338
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2156338
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2156338
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2156338
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2156338
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2156338
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2156338
Chloromethane	74-87-3	50.50	20.0	41.3	60.8	126		100	WG2156338
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2156338
Cyclohexane	110-82-7	84.20	20.0	68.9	56.4	194		100	WG2156338
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2156338
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2156338
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2156338
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2156338
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2156338
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2156338
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2156338
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2156338
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2156338
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2156338
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2156338
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2156338
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2156338
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2156338
Ethanol	64-17-5	46.10	250	471	32000	60300	E	100	WG2156338
Ethylbenzene	100-41-4	106	20.0	86.7	146	633		100	WG2156338
4-Ethyltoluene	622-96-8	120	20.0	98.2	40.9	201		100	WG2156338
Trichlorofluoromethane	75-69-4	137.40	20.0	112	21.5	121		100	WG2156338
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	44.7	221		100	WG2156338
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2156338
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2156338
Heptane	142-82-5	100	20.0	81.8	134	548		100	WG2156338
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2156338
n-Hexane	110-54-3	86.20	63.0	222	984	3470		100	WG2156338
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2156338
Methylene Chloride	75-09-2	84.90	20.0	69.4	3340	11600		100	WG2156338
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2156338
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2156338
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2156338
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2156338
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2156338
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2156338
2-Propanol	67-63-0	60.10	125	307	1990	4890		100	WG2156338
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2156338
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2156338
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2156338
Tetrachloroethylene	127-18-4	166	20.0	136	274	1860		100	WG2156338
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2156338
Toluene	108-88-3	92.10	50.0	188	750	2830		100	WG2156338
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2156338

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 10/17/23 12:07

L1668207

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	WG2156338
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2156338
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2156338
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	170	834		100	WG2156338
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	44.9	220		100	WG2156338
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	182	850		100	WG2156338
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2156338
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2156338
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2156338
m&p-Xylene	1330-20-7	106	40.0	173	473	2050		100	WG2156338
o-Xylene	95-47-6	106	20.0	86.7	199	863		100	WG2156338
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2156338
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.5				WG2156338

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3991088-2 10/23/23 10:21

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	0.630
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Volatile Organic Compounds (MS) by Method TO-15

L1668207-01

Method Blank (MB)

(MB) R3991088-2 10/23/23 10:21

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	42.7	U	39.7	200
(S) 1,4-Bromofluorobenzene	98.3			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3991088-1 10/23/23 09:53 • (LCSD) R3991088-3 10/23/23 12:09

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.54	3.42	94.4	91.2	70.0-130			3.45	25
Allyl chloride	3.75	3.56	3.80	94.9	101	70.0-130			6.52	25
Benzene	3.75	4.02	4.07	107	109	70.0-130			1.24	25
Benzyl Chloride	3.75	3.02	3.12	80.5	83.2	70.0-152			3.26	25

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

(LCS) R3991088-1 10/23/23 09:53 • (LCSD) R3991088-3 10/23/23 12:09

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.61	3.65	96.3	97.3	70.0-130			1.10	25
Bromoform	3.75	3.22	3.30	85.9	88.0	70.0-130			2.45	25
Bromomethane	3.75	4.22	3.79	113	101	70.0-130			10.7	25
1,3-Butadiene	3.75	4.45	3.89	119	104	70.0-130			13.4	25
Carbon disulfide	3.75	3.70	3.63	98.7	96.8	70.0-130			1.91	25
Carbon tetrachloride	3.75	3.32	3.41	88.5	90.9	70.0-130			2.67	25
Chlorobenzene	3.75	3.88	3.86	103	103	70.0-130			0.517	25
Chloroethane	3.75	4.35	3.82	116	102	70.0-130			13.0	25
Chloroform	3.75	3.71	3.72	98.9	99.2	70.0-130			0.269	25
Chloromethane	3.75	4.57	4.50	122	120	70.0-130			1.54	25
2-Chlorotoluene	3.75	3.78	3.87	101	103	70.0-130			2.35	25
Cyclohexane	3.75	4.03	4.00	107	107	70.0-130			0.747	25
Dibromochloromethane	3.75	3.49	3.53	93.1	94.1	70.0-130			1.14	25
1,2-Dibromoethane	3.75	3.80	3.86	101	103	70.0-130			1.57	25
1,2-Dichlorobenzene	3.75	3.77	3.87	101	103	70.0-130			2.62	25
1,3-Dichlorobenzene	3.75	3.81	3.90	102	104	70.0-130			2.33	25
1,4-Dichlorobenzene	3.75	3.90	3.97	104	106	70.0-130			1.78	25
1,2-Dichloroethane	3.75	3.56	3.61	94.9	96.3	70.0-130			1.39	25
1,1-Dichloroethane	3.75	4.02	4.02	107	107	70.0-130			0.000	25
1,1-Dichloroethene	3.75	3.61	3.61	96.3	96.3	70.0-130			0.000	25
cis-1,2-Dichloroethene	3.75	4.00	3.95	107	105	70.0-130			1.26	25
trans-1,2-Dichloroethene	3.75	4.01	3.97	107	106	70.0-130			1.00	25
1,2-Dichloropropane	3.75	3.93	4.00	105	107	70.0-130			1.77	25
cis-1,3-Dichloropropene	3.75	3.57	3.80	95.2	101	70.0-130			6.24	25
trans-1,3-Dichloropropene	3.75	3.53	3.56	94.1	94.9	70.0-130			0.846	25
1,4-Dioxane	3.75	4.53	4.44	121	118	70.0-140			2.01	25
Ethanol	3.75	4.41	3.73	118	99.5	55.0-148			16.7	25
Ethylbenzene	3.75	3.81	3.83	102	102	70.0-130			0.524	25
4-Ethyltoluene	3.75	4.00	4.11	107	110	70.0-130			2.71	25
Trichlorofluoromethane	3.75	3.16	3.36	84.3	89.6	70.0-130			6.13	25
Dichlorodifluoromethane	3.75	3.85	3.88	103	103	64.0-139			0.776	25
1,1,2-Trichlorotrifluoroethane	3.75	3.66	3.59	97.6	95.7	70.0-130			1.93	25
1,2-Dichlorotetrafluoroethane	3.75	4.09	4.09	109	109	70.0-130			0.000	25
Heptane	3.75	4.33	4.33	115	115	70.0-130			0.000	25
Hexachloro-1,3-butadiene	3.75	3.45	3.53	92.0	94.1	70.0-151			2.29	25
n-Hexane	3.75	4.16	4.11	111	110	70.0-130			1.21	25
Isopropylbenzene	3.75	3.77	3.84	101	102	70.0-130			1.84	25
Methylene Chloride	3.75	3.71	3.44	98.9	91.7	70.0-130			7.55	25
Methyl Butyl Ketone	3.75	4.10	4.45	109	119	70.0-149			8.19	25
2-Butanone (MEK)	3.75	4.13	4.16	110	111	70.0-130			0.724	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1668207-01

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

(LCS) R3991088-1 10/23/23 09:53 • (LCSD) R3991088-3 10/23/23 12:09

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.36	4.37	116	117	70.0-139			0.229	25
Methyl methacrylate	3.75	3.94	4.02	105	107	70.0-130			2.01	25
MTBE	3.75	3.70	3.77	98.7	101	70.0-130			1.87	25
Naphthalene	3.75	3.80	3.87	101	103	70.0-159			1.83	25
2-Propanol	3.75	3.22	3.42	85.9	91.2	70.0-139			6.02	25
Propene	3.75	4.07	3.98	109	106	64.0-144			2.24	25
Styrene	3.75	3.95	3.97	105	106	70.0-130			0.505	25
1,1,2,2-Tetrachloroethane	3.75	4.02	4.08	107	109	70.0-130			1.48	25
Tetrachloroethylene	3.75	3.76	3.67	100	97.9	70.0-130			2.42	25
Tetrahydrofuran	3.75	4.24	4.25	113	113	70.0-137			0.236	25
Toluene	3.75	3.90	3.98	104	106	70.0-130			2.03	25
1,2,4-Trichlorobenzene	3.75	3.57	3.73	95.2	99.5	70.0-160			4.38	25
1,1,1-Trichloroethane	3.75	3.50	3.52	93.3	93.9	70.0-130			0.570	25
1,1,2-Trichloroethane	3.75	3.89	4.00	104	107	70.0-130			2.79	25
Trichloroethylene	3.75	3.81	3.79	102	101	70.0-130			0.526	25
1,2,4-Trimethylbenzene	3.75	3.99	4.09	106	109	70.0-130			2.48	25
1,3,5-Trimethylbenzene	3.75	4.02	3.96	107	106	70.0-130			1.50	25
2,2,4-Trimethylpentane	3.75	4.19	4.18	112	111	70.0-130			0.239	25
Vinyl chloride	3.75	4.45	4.51	119	120	70.0-130			1.34	25
Vinyl Bromide	3.75	3.64	3.69	97.1	98.4	70.0-130			1.36	25
Vinyl acetate	3.75	2.63	2.96	70.1	78.9	70.0-130			11.8	25
m&p-Xylene	7.50	7.85	7.93	105	106	70.0-130			1.01	25
o-Xylene	3.75	3.92	4.01	105	107	70.0-130			2.27	25
TPH (GC/MS) Low Fraction	188	196	197	104	105	70.0-130			0.509	25
(S) 1,4-Bromofluorobenzene				101	104	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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Released to Imaging: 4/22/2024 11:20:02 AM



ANALYTICAL REPORT

November 06, 2023

Ensolum, LLC

Sample Delivery Group: L1669996
Samples Received: 10/25/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

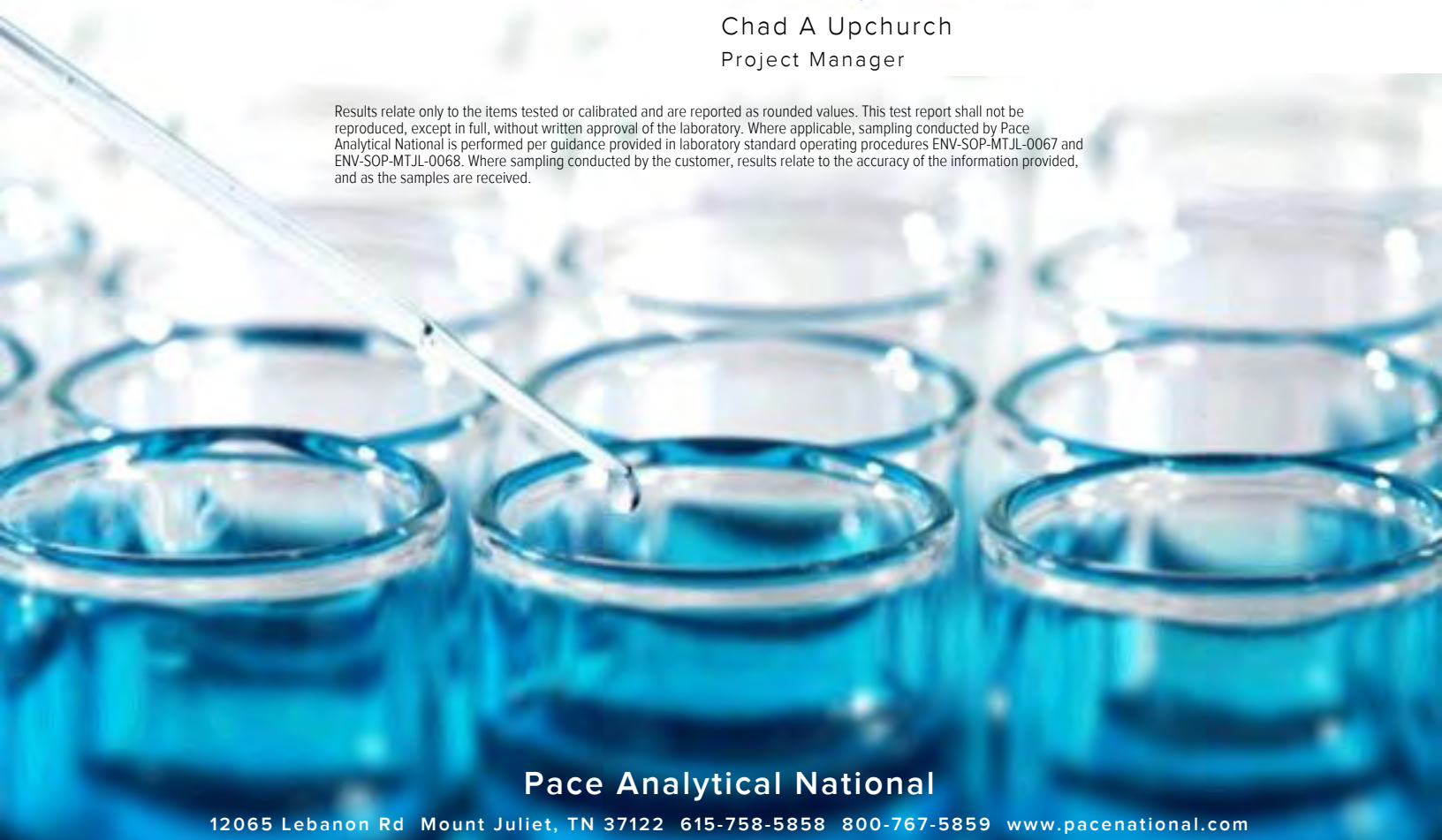


Entire Report Reviewed By:

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	⁶ Sr
LEVEY WELL L1669996-01	9	
LEVEY WELL L1669996-02	11	
LEVEY WELL L1669996-03	13	⁷ Qc
LEVEY WELL L1669996-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	23	
Al: Accreditations & Locations	24	¹⁰ Sc
Sc: Sample Chain of Custody	25	

LEVEY WELL L1669996-01 Air

Collected by
Shane Diller

Collected date/time
10/23/23 10:13

Received date/time
10/25/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2161494	100	11/01/23 01:47	11/01/23 01:47	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2163892	10000	11/03/23 23:21	11/03/23 23:21	SDS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

LEVEY WELL L1669996-02 Air

Collected by
Shane Diller

Collected date/time
10/23/23 12:00

Received date/time
10/25/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2161494	100	11/01/23 02:27	11/01/23 02:27	DAH	Mt. Juliet, TN

LEVEY WELL L1669996-03 Air

Collected by
Shane Diller

Collected date/time
10/23/23 13:58

Received date/time
10/25/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2161494	100	11/01/23 03:07	11/01/23 03:07	DAH	Mt. Juliet, TN

LEVEY WELL L1669996-04 Air

Collected by
Shane Diller

Collected date/time
10/23/23 14:45

Received date/time
10/25/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2161494	100	11/01/23 03:47	11/01/23 03:47	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2163395	1000	11/03/23 02:53	11/03/23 02:53	MBF	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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

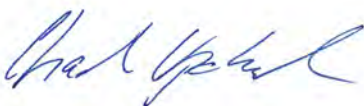
⁹ Al

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: 11/06/2023 11:39					
Project Name: Levey Well		Laboratory Job Number: L1669996-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2161494, WG2163395 and WG2163892					
# 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: 11/06/2023 11:39				
Project Name: Levey Well			Laboratory Job Number: L1669996-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2161494, WG2163395 and WG2163892				
# 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: 11/06/2023 11:39	
Project Name: Levey Well		Laboratory Job Number: L1669996-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2161494, WG2163395 and WG2163892	
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: 10/23/23 10:13

L1669996

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	687	1630		100	WG2161494
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2161494
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2161494
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2161494
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2161494
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2161494
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2161494
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2161494
Carbon disulfide	75-15-0	76.10	20.0	62.2	25.3	78.7		100	WG2161494
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2161494
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2161494
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2161494
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2161494
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2161494
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2161494
Cyclohexane	110-82-7	84.20	20.0	68.9	9710	33400		100	WG2161494
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2161494
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2161494
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2161494
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2161494
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2161494
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2161494
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2161494
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2161494
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2161494
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2161494
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2161494
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2161494
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2161494
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2161494
Ethanol	64-17-5	46.10	250	471	1160	2190		100	WG2161494
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2161494
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2161494
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2161494
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2161494
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2161494
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2161494
Heptane	142-82-5	100	20.0	81.8	4600	18800		100	WG2161494
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2161494
n-Hexane	110-54-3	86.20	6300	22200	719000	2530000		10000	WG2163892
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2161494
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2161494
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2161494
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2161494
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2161494
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2161494
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2161494
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2161494
2-Propanol	67-63-0	60.10	125	307	3570	8780		100	WG2161494
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2161494
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2161494
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2161494
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2161494
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2161494
Toluene	108-88-3	92.10	50.0	188	125	471		100	WG2161494
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2161494

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 10/23/23 10:13

L1669996

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	WG2161494
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2161494
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2161494
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	25.9	127		100	WG2161494
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2161494
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2161494
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2161494
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2161494
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2161494
m&p-Xylene	1330-20-7	106	40.0	173	52.0	225		100	WG2161494
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2161494
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	215000	888000		100	WG2161494
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.5				WG2161494
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2163892

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Collected date/time: 10/23/23 12:00

L1669996

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	480	1140		100	WG2161494
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2161494
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2161494
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2161494
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2161494
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2161494
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2161494
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2161494
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2161494
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2161494
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2161494
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2161494
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2161494
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2161494
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2161494
Cyclohexane	110-82-7	84.20	20.0	68.9	486	1670		100	WG2161494
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2161494
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2161494
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2161494
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2161494
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2161494
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2161494
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2161494
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2161494
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2161494
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2161494
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2161494
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2161494
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2161494
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2161494
Ethanol	64-17-5	46.10	250	471	1640	3090		100	WG2161494
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2161494
4-Ethyltoluene	622-96-8	120	20.0	98.2	20.4	100		100	WG2161494
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2161494
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2161494
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2161494
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2161494
Heptane	142-82-5	100	20.0	81.8	311	1270		100	WG2161494
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2161494
n-Hexane	110-54-3	86.20	63.0	222	4740	16700		100	WG2161494
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2161494
Methylene Chloride	75-09-2	84.90	20.0	69.4	60.4	210	B	100	WG2161494
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2161494
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2161494
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2161494
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2161494
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2161494
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2161494
2-Propanol	67-63-0	60.10	125	307	1040	2560		100	WG2161494
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2161494
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2161494
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2161494
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2161494
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2161494
Toluene	108-88-3	92.10	50.0	188	110	414		100	WG2161494
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2161494



Collected date/time: 10/23/23 12:00

L1669996

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	WG2161494
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2161494
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2161494
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	25.0	123		100	WG2161494
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2161494
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2161494
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2161494
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2161494
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2161494
m&p-Xylene	1330-20-7	106	40.0	173	53.5	232		100	WG2161494
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2161494
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2161494
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				WG2161494

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 10/23/23 13:58

L1669996

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	483	1150		100	WG2161494
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2161494
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2161494
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2161494
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2161494
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2161494
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2161494
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2161494
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2161494
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2161494
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2161494
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2161494
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2161494
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2161494
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2161494
Cyclohexane	110-82-7	84.20	20.0	68.9	361	1240		100	WG2161494
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2161494
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2161494
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2161494
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2161494
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2161494
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2161494
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2161494
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2161494
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2161494
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2161494
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2161494
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2161494
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2161494
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2161494
Ethanol	64-17-5	46.10	250	471	1580	2980		100	WG2161494
Ethylbenzene	100-41-4	106	20.0	86.7	38.2	166		100	WG2161494
4-Ethyltoluene	622-96-8	120	20.0	98.2	56.8	279		100	WG2161494
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2161494
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2161494
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2161494
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2161494
Heptane	142-82-5	100	20.0	81.8	224	916		100	WG2161494
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2161494
n-Hexane	110-54-3	86.20	63.0	222	3370	11900		100	WG2161494
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2161494
Methylene Chloride	75-09-2	84.90	20.0	69.4	51.7	180	B	100	WG2161494
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2161494
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2161494
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2161494
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2161494
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2161494
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2161494
2-Propanol	67-63-0	60.10	125	307	994	2440		100	WG2161494
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2161494
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2161494
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2161494
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2161494
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2161494
Toluene	108-88-3	92.10	50.0	188	129	486		100	WG2161494
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2161494

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 10/23/23 13:58

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	WG2161494
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2161494
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2161494
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	46.8	230		100	WG2161494
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2161494
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2161494
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2161494
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2161494
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2161494
m&p-Xylene	1330-20-7	106	40.0	173	112	486		100	WG2161494
o-Xylene	95-47-6	106	20.0	86.7	35.6	154		100	WG2161494
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2161494
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.9				WG2161494

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Collected date/time: 10/23/23 14:45

L1669996

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	590	1400		100	WG2161494
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2161494
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2161494
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2161494
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2161494
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2161494
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2161494
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2161494
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2161494
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2161494
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2161494
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2161494
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2161494
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2161494
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2161494
Cyclohexane	110-82-7	84.20	20.0	68.9	1600	5510		100	WG2161494
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2161494
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2161494
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2161494
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2161494
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2161494
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2161494
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2161494
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2161494
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2161494
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2161494
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2161494
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2161494
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2161494
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2161494
Ethanol	64-17-5	46.10	250	471	1830	3450		100	WG2161494
Ethylbenzene	100-41-4	106	20.0	86.7	50.6	219		100	WG2161494
4-Ethyltoluene	622-96-8	120	20.0	98.2	107	525		100	WG2161494
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2161494
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2161494
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2161494
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2161494
Heptane	142-82-5	100	20.0	81.8	ND	ND		100	WG2161494
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2161494
n-Hexane	110-54-3	86.20	630	2220	18100	63800		1000	WG2163395
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2161494
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2161494
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2161494
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2161494
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2161494
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2161494
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2161494
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2161494
2-Propanol	67-63-0	60.10	125	307	1150	2830		100	WG2161494
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2161494
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2161494
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2161494
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2161494
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2161494
Toluene	108-88-3	92.10	50.0	188	140	527		100	WG2161494
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2161494

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 10/23/23 14:45

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	WG2161494
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2161494
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2161494
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	93.8	460		100	WG2161494
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	36.2	178		100	WG2161494
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2161494
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2161494
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2161494
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2161494
m&p-Xylene	1330-20-7	106	40.0	173	157	681		100	WG2161494
o-Xylene	95-47-6	106	20.0	86.7	52.3	227		100	WG2161494
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	49600	205000		100	WG2161494
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.1				WG2161494
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2163395

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3993763-3 10/31/23 11:11

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	0.630
Ethanol	1.07	U	0.265	2.50
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

L1669996-01,02,03,04

Method Blank (MB)

(MB) R3993763-3 10/31/23 11:11

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	0.129	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	0.630
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) R3993763-1 10/31/23 09:49 • (LCSD) R3993763-2 10/31/23 10:30

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.62	3.65	96.5	97.3	70.0-130			0.825	25
Allyl chloride	3.75	3.79	3.86	101	103	70.0-130			1.83	25
Benzene	3.75	4.05	4.00	108	107	70.0-130			1.24	25
Benzyl Chloride	3.75	3.97	3.93	106	105	70.0-152			1.01	25

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

(LCS) R3993763-1 10/31/23 09:49 • (LCSD) R3993763-2 10/31/23 10:30

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.00	3.94	107	105	70.0-130			1.51	25
Bromoform	3.75	3.85	3.84	103	102	70.0-130			0.260	25
Bromomethane	3.75	3.86	3.93	103	105	70.0-130			1.80	25
1,3-Butadiene	3.75	3.96	4.32	106	115	70.0-130			8.70	25
Carbon disulfide	3.75	4.02	3.95	107	105	70.0-130			1.76	25
Carbon tetrachloride	3.75	3.79	3.80	101	101	70.0-130			0.264	25
Chlorobenzene	3.75	4.05	3.97	108	106	70.0-130			2.00	25
Chloroethane	3.75	4.04	4.18	108	111	70.0-130			3.41	25
Chloroform	3.75	3.84	3.79	102	101	70.0-130			1.31	25
Chloromethane	3.75	3.94	3.93	105	105	70.0-130			0.254	25
2-Chlorotoluene	3.75	4.20	4.15	112	111	70.0-130			1.20	25
Cyclohexane	3.75	3.89	3.92	104	105	70.0-130			0.768	25
Dibromochloromethane	3.75	3.99	3.94	106	105	70.0-130			1.26	25
1,2-Dibromoethane	3.75	3.97	3.91	106	104	70.0-130			1.52	25
1,2-Dichlorobenzene	3.75	4.03	4.00	107	107	70.0-130			0.747	25
1,3-Dichlorobenzene	3.75	4.04	4.03	108	107	70.0-130			0.248	25
1,4-Dichlorobenzene	3.75	4.13	4.14	110	110	70.0-130			0.242	25
1,2-Dichloroethane	3.75	4.01	3.95	107	105	70.0-130			1.51	25
1,1-Dichloroethane	3.75	3.88	3.82	103	102	70.0-130			1.56	25
1,1-Dichloroethene	3.75	3.96	3.92	106	105	70.0-130			1.02	25
cis-1,2-Dichloroethene	3.75	3.59	3.53	95.7	94.1	70.0-130			1.69	25
trans-1,2-Dichloroethene	3.75	3.87	3.81	103	102	70.0-130			1.56	25
1,2-Dichloropropane	3.75	3.96	3.91	106	104	70.0-130			1.27	25
cis-1,3-Dichloropropene	3.75	3.91	3.84	104	102	70.0-130			1.81	25
trans-1,3-Dichloropropene	3.75	3.94	3.82	105	102	70.0-130			3.09	25
1,4-Dioxane	3.75	4.00	3.95	107	105	70.0-140			1.26	25
Ethanol	3.75	4.18	4.30	111	115	55.0-148			2.83	25
Ethylbenzene	3.75	3.86	3.83	103	102	70.0-130			0.780	25
4-Ethyltoluene	3.75	4.05	4.01	108	107	70.0-130			0.993	25
Trichlorofluoromethane	3.75	4.03	4.08	107	109	70.0-130			1.23	25
Dichlorodifluoromethane	3.75	3.77	3.62	101	96.5	64.0-139			4.06	25
1,1,2-Trichlorotrifluoroethane	3.75	3.94	3.94	105	105	70.0-130			0.000	25
1,2-Dichlorotetrafluoroethane	3.75	4.05	4.07	108	109	70.0-130			0.493	25
Heptane	3.75	4.52	4.48	121	119	70.0-130			0.889	25
Hexachloro-1,3-butadiene	3.75	4.01	4.09	107	109	70.0-151			1.98	25
n-Hexane	3.75	3.85	3.82	103	102	70.0-130			0.782	25
Isopropylbenzene	3.75	3.89	3.83	104	102	70.0-130			1.55	25
Methylene Chloride	3.75	3.79	3.76	101	100	70.0-130			0.795	25
Methyl Butyl Ketone	3.75	4.16	4.08	111	109	70.0-149			1.94	25
2-Butanone (MEK)	3.75	3.79	3.80	101	101	70.0-130			0.264	25

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

L1669996-01,02,03,04

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

(LCS) R3993763-1 10/31/23 09:49 • (LCSD) R3993763-2 10/31/23 10:30

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.14	4.05	110	108	70.0-139			2.20	25
Methyl methacrylate	3.75	3.77	3.76	101	100	70.0-130			0.266	25
MTBE	3.75	3.77	3.73	101	99.5	70.0-130			1.07	25
Naphthalene	3.75	3.99	4.04	106	108	70.0-159			1.25	25
2-Propanol	3.75	3.78	3.80	101	101	70.0-139			0.528	25
Propene	3.75	3.89	3.82	104	102	64.0-144			1.82	25
Styrene	3.75	4.07	4.00	109	107	70.0-130			1.73	25
1,1,2,2-Tetrachloroethane	3.75	3.97	3.98	106	106	70.0-130			0.252	25
Tetrachloroethylene	3.75	3.89	3.90	104	104	70.0-130			0.257	25
Tetrahydrofuran	3.75	3.84	3.79	102	101	70.0-137			1.31	25
Toluene	3.75	3.95	3.87	105	103	70.0-130			2.05	25
1,2,4-Trichlorobenzene	3.75	4.06	4.08	108	109	70.0-160			0.491	25
1,1,1-Trichloroethane	3.75	3.84	3.80	102	101	70.0-130			1.05	25
1,1,2-Trichloroethane	3.75	3.95	3.94	105	105	70.0-130			0.253	25
Trichloroethylene	3.75	3.90	3.83	104	102	70.0-130			1.81	25
1,2,4-Trimethylbenzene	3.75	4.09	4.14	109	110	70.0-130			1.22	25
1,3,5-Trimethylbenzene	3.75	4.13	4.08	110	109	70.0-130			1.22	25
2,2,4-Trimethylpentane	3.75	3.86	3.88	103	103	70.0-130			0.517	25
Vinyl chloride	3.75	4.08	4.38	109	117	70.0-130			7.09	25
Vinyl Bromide	3.75	4.07	4.08	109	109	70.0-130			0.245	25
Vinyl acetate	3.75	4.68	4.66	125	124	70.0-130			0.428	25
m&p-Xylene	7.50	7.91	7.73	105	103	70.0-130			2.30	25
o-Xylene	3.75	3.83	3.79	102	101	70.0-130			1.05	25
TPH (GC/MS) Low Fraction	188	188	187	100	99.5	70.0-130			0.533	25
(S) 1,4-Bromofluorobenzene				97.6	98.0	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1669996-04

Method Blank (MB)

(MB) R3995154-3 11/02/23 14:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	102			60.0-140

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

(LCS) R3995154-1 11/02/23 12:57 • (LCSD) R3995154-2 11/02/23 13:40

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	3.95	3.98	105	106	70.0-130			0.757	25
(S) 1,4-Bromofluorobenzene				99.5	99.0	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3995350-3 11/03/23 11:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	102			60.0-140

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

(LCS) R3995350-1 11/03/23 09:39 • (LCSD) R3995350-2 11/03/23 10:22

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	4.24	4.23	113	113	70.0-130			0.236	25
(S) 1,4-Bromofluorobenzene				100	99.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Released to Imaging: 4/22/2024 11:20:02 AM



ANALYTICAL REPORT

November 13, 2023

Ensolum, LLC

Sample Delivery Group: L1674745
Samples Received: 11/07/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

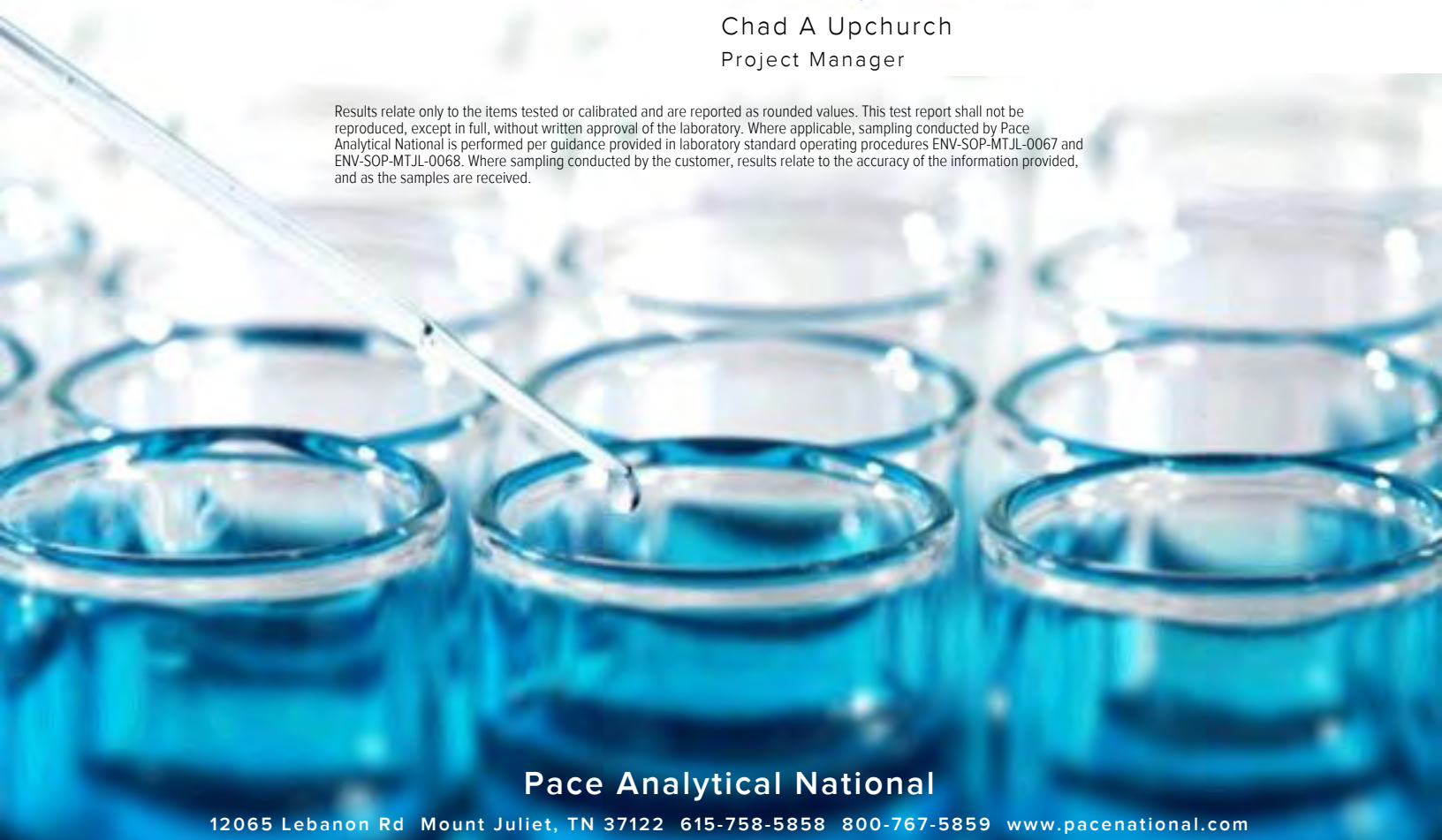


Entire Report Reviewed By:

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 L1674745-01	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 L1674745-01 Air

Collected by
Shane Diller

Collected date/time
10/31/23 11:07

Received date/time
11/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2167011	100	11/09/23 06:31	11/09/23 06:31	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2168838	2000	11/10/23 16:24	11/10/23 16:24	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

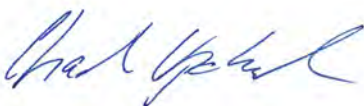
⁹ Al

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: 11/13/2023 14:31				
Project Name: Levey Well			Laboratory Job Number: L1674745-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2167011 and WG2168838				
# 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: 11/13/2023 14:31					
Project Name: Levey Well		Laboratory Job Number: L1674745-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2167011 and WG2168838					
# 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: 11/13/2023 14:31	
Project Name: Levey Well		Laboratory Job Number: L1674745-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2167011 and WG2168838	
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: 10/31/23 11:07

L1674745

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	1250	2970		100	WG2167011
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2167011
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2167011
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2167011
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2167011
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2167011
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2167011
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2167011
Carbon disulfide	75-15-0	76.10	20.0	62.2	32.0	99.6		100	WG2167011
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2167011
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2167011
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2167011
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2167011
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2167011
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2167011
Cyclohexane	110-82-7	84.20	20.0	68.9	5900	20300		100	WG2167011
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2167011
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2167011
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2167011
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2167011
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2167011
1,2-Dichloroethane	107-06-2	99	20.0	81.0	30.9	125		100	WG2167011
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2167011
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2167011
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2167011
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2167011
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2167011
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2167011
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2167011
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2167011
Ethanol	64-17-5	46.10	250	471	1540	2900	B	100	WG2167011
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2167011
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2167011
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2167011
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2167011
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2167011
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2167011
Heptane	142-82-5	100	20.0	81.8	3360	13700		100	WG2167011
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2167011
n-Hexane	110-54-3	86.20	1260	4440	82900	292000		2000	WG2168838
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2167011
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2167011
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2167011
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2167011
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2167011
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2167011
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2167011
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2167011
2-Propanol	67-63-0	60.10	125	307	2990	7350		100	WG2167011
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2167011
Styrene	100-42-5	104	20.0	85.1	24.2	103		100	WG2167011
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2167011
Tetrachloroethylene	127-18-4	166	20.0	136	48.9	332		100	WG2167011
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2167011
Toluene	108-88-3	92.10	50.0	188	56.6	213		100	WG2167011
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2167011

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 10/31/23 11:07 L1674745

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	WG2167011
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2167011
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2167011
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	41.2	202		100	WG2167011
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2167011
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2167011
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2167011
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2167011
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2167011
m&p-Xylene	1330-20-7	106	40.0	173	72.2	313		100	WG2167011
o-Xylene	95-47-6	106	20.0	86.7	24.2	105		100	WG2167011
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	98400	406000		100	WG2167011
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.1				WG2167011
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		106				WG2168838

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3997607-3 11/08/23 17:17

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	0.630
Ethanol	1.71	U	0.265	2.50
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

L1674745-01

Method Blank (MB)

(MB) R3997607-3 11/08/23 17:17

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	0.630
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	93.0			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3997607-1 11/08/23 15:59 • (LCSD) R3997607-2 11/08/23 16:39

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.14	3.12	83.7	83.2	70.0-130			0.639	25
Allyl chloride	3.75	3.00	2.90	80.0	77.3	70.0-130			3.39	25
Benzene	3.75	3.27	3.33	87.2	88.8	70.0-130			1.82	25
Benzyl Chloride	3.75	3.40	3.77	90.7	101	70.0-152			10.3	25
Bromodichloromethane	3.75	3.42	3.44	91.2	91.7	70.0-130			0.583	25

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

(LCS) R3997607-1 11/08/23 15:59 • (LCSD) R3997607-2 11/08/23 16:39

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	3.75	3.38	3.34	90.1	89.1	70.0-130			1.19	25
Bromomethane	3.75	3.08	3.06	82.1	81.6	70.0-130			0.651	25
1,3-Butadiene	3.75	2.89	2.85	77.1	76.0	70.0-130			1.39	25
Carbon disulfide	3.75	2.82	2.74	75.2	73.1	70.0-130			2.88	25
Carbon tetrachloride	3.75	3.32	3.23	88.5	86.1	70.0-130			2.75	25
Chlorobenzene	3.75	3.34	3.55	89.1	94.7	70.0-130			6.10	25
Chloroethane	3.75	3.26	3.18	86.9	84.8	70.0-130			2.48	25
Chloroform	3.75	3.24	3.31	86.4	88.3	70.0-130			2.14	25
Chloromethane	3.75	3.03	2.96	80.8	78.9	70.0-130			2.34	25
2-Chlorotoluene	3.75	3.31	3.28	88.3	87.5	70.0-130			0.910	25
Cyclohexane	3.75	3.27	3.22	87.2	85.9	70.0-130			1.54	25
Dibromochloromethane	3.75	3.39	3.52	90.4	93.9	70.0-130			3.76	25
1,2-Dibromoethane	3.75	3.31	3.40	88.3	90.7	70.0-130			2.68	25
1,2-Dichlorobenzene	3.75	3.39	3.79	90.4	101	70.0-130			11.1	25
1,3-Dichlorobenzene	3.75	3.39	3.92	90.4	105	70.0-130			14.5	25
1,4-Dichlorobenzene	3.75	3.51	3.95	93.6	105	70.0-130			11.8	25
1,2-Dichloroethane	3.75	3.38	3.43	90.1	91.5	70.0-130			1.47	25
1,1-Dichloroethane	3.75	3.15	3.14	84.0	83.7	70.0-130			0.318	25
1,1-Dichloroethene	3.75	3.30	3.16	88.0	84.3	70.0-130			4.33	25
cis-1,2-Dichloroethene	3.75	3.14	3.14	83.7	83.7	70.0-130			0.000	25
trans-1,2-Dichloroethene	3.75	3.18	3.17	84.8	84.5	70.0-130			0.315	25
1,2-Dichloropropane	3.75	3.24	3.26	86.4	86.9	70.0-130			0.615	25
cis-1,3-Dichloropropene	3.75	3.28	3.39	87.5	90.4	70.0-130			3.30	25
trans-1,3-Dichloropropene	3.75	3.32	3.44	88.5	91.7	70.0-130			3.55	25
1,4-Dioxane	3.75	3.31	3.36	88.3	89.6	70.0-140			1.50	25
Ethanol	3.75	4.74	4.71	126	126	55.0-148			0.635	25
Ethylbenzene	3.75	3.26	3.33	86.9	88.8	70.0-130			2.12	25
4-Ethyltoluene	3.75	3.35	3.57	89.3	95.2	70.0-130			6.36	25
Trichlorofluoromethane	3.75	3.30	3.28	88.0	87.5	70.0-130			0.608	25
Dichlorodifluoromethane	3.75	3.25	3.23	86.7	86.1	64.0-139			0.617	25
1,1,2-Trichlorotrifluoroethane	3.75	3.25	3.17	86.7	84.5	70.0-130			2.49	25
1,2-Dichlorotetrafluoroethane	3.75	3.17	3.16	84.5	84.3	70.0-130			0.316	25
Heptane	3.75	3.31	3.35	88.3	89.3	70.0-130			1.20	25
Hexachloro-1,3-butadiene	3.75	3.11	3.01	82.9	80.3	70.0-151			3.27	25
Isopropylbenzene	3.75	3.31	3.29	88.3	87.7	70.0-130			0.606	25
Methylene Chloride	3.75	3.12	3.00	83.2	80.0	70.0-130			3.92	25
Methyl Butyl Ketone	3.75	3.34	3.39	89.1	90.4	70.0-149			1.49	25
2-Butanone (MEK)	3.75	3.18	3.23	84.8	86.1	70.0-130			1.56	25
4-Methyl-2-pentanone (MIBK)	3.75	3.24	3.32	86.4	88.5	70.0-139			2.44	25
Methyl methacrylate	3.75	3.17	3.23	84.5	86.1	70.0-130			1.87	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1674745-01

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

(LCS) R3997607-1 11/08/23 15:59 • (LCSD) R3997607-2 11/08/23 16:39

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
MTBE	3.75	3.17	3.21	84.5	85.6	70.0-130			1.25	25
Naphthalene	3.75	3.29	3.21	87.7	85.6	70.0-159			2.46	25
2-Propanol	3.75	3.31	3.28	88.3	87.5	70.0-139			0.910	25
Propene	3.75	3.07	3.08	81.9	82.1	64.0-144			0.325	25
Styrene	3.75	3.35	3.34	89.3	89.1	70.0-130			0.299	25
1,1,2,2-Tetrachloroethane	3.75	3.17	3.38	84.5	90.1	70.0-130			6.41	25
Tetrachloroethylene	3.75	3.38	3.51	90.1	93.6	70.0-130			3.77	25
Tetrahydrofuran	3.75	3.10	3.16	82.7	84.3	70.0-137			1.92	25
Toluene	3.75	3.31	3.42	88.3	91.2	70.0-130			3.27	25
1,2,4-Trichlorobenzene	3.75	3.29	3.36	87.7	89.6	70.0-160			2.11	25
1,1,1-Trichloroethane	3.75	3.29	3.22	87.7	85.9	70.0-130			2.15	25
1,1,2-Trichloroethane	3.75	3.27	3.33	87.2	88.8	70.0-130			1.82	25
Trichloroethylene	3.75	3.35	3.33	89.3	88.8	70.0-130			0.599	25
1,2,4-Trimethylbenzene	3.75	3.30	3.72	88.0	99.2	70.0-130			12.0	25
1,3,5-Trimethylbenzene	3.75	3.37	3.37	89.9	89.9	70.0-130			0.000	25
2,2,4-Trimethylpentane	3.75	3.24	3.22	86.4	85.9	70.0-130			0.619	25
Vinyl chloride	3.75	3.05	3.00	81.3	80.0	70.0-130			1.65	25
Vinyl Bromide	3.75	3.23	3.13	86.1	83.5	70.0-130			3.14	25
Vinyl acetate	3.75	3.23	3.06	86.1	81.6	70.0-130			5.41	25
m&p-Xylene	7.50	6.75	6.83	90.0	91.1	70.0-130			1.18	25
o-Xylene	3.75	3.35	3.36	89.3	89.6	70.0-130			0.298	25
TPH (GC/MS) Low Fraction	188	152	151	80.9	80.3	70.0-130			0.660	25
(S) 1,4-Bromofluorobenzene				104	94.7	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1674745-01](#)

Method Blank (MB)

(MB) R3998410-2 11/10/23 11:00

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	104			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3998410-1 11/10/23 10:17 • (LCSD) R3998410-3 11/10/23 11:44

	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	2.92	2.77	77.9	73.9	70.0-130			5.27	25
(S) 1,4-Bromofluorobenzene				110	108	60.0-140				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

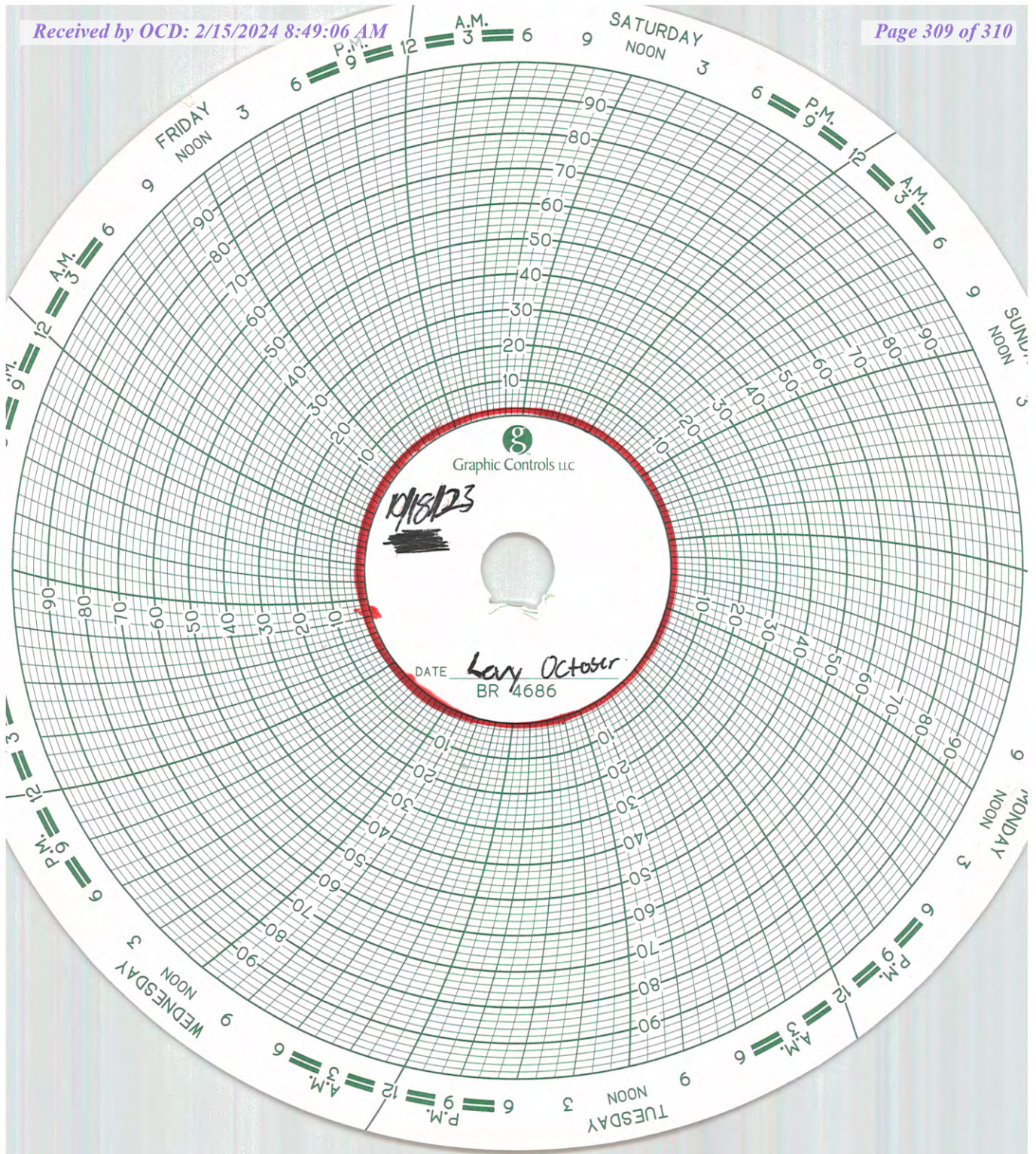
¹⁰Sc

Released to Imaging: 4/22/2024 11:20:02 AM



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 314635

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID:	157984
	Action Number:	314635
	Action Type:	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	GAS MITIGATION MONTHLY REPORT – October 2023 Property: South Hobbs G/SA Unit Accepted for the record.	4/22/2024