



GAS MITIGATION MONTHLY REPORT – December 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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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 - December 2023 summarizes activities subsequent to the *Gas Mitigation Monthly Report – November 2023*, dated February 15, 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 December 18, 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 December 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 and TDS. Benzene concentrations ranged from 0.0139 milligrams per liter (mg/L) to 0.0224 mg/L in monitoring well MW-2 and TDS concentrations ranged from 1,090 mg/L to 1,280 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 12/18/2023, with no pressure observed in either monitoring well. The pressure reading chart available for December 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 December 1 - 31, 2023 was approximately 621,537 gallons.

1.3 Gas Recovery – Levey Well

OXY conducted two vacuum recovery events during the month of December 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 January 2024 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 December 8, 2023 and December 18, 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 December 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:

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 January 2024. 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, 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, 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, ethylbenzene, 4-ethyltoluene, heptane, n-hexane, isopropylbenzene, 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene, and/or TPH 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 approximately one week subsequent to a vacuum recovery event. During the air sampling event, elevated concentrations of acetone, benzene, cyclohexane, ethanol, ethylbenzene, 4-ethyltoluene, heptane, n-hexane, isopropylbenzene, 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene, and/or TPH were observed inside the Levey water well casing. These results again indicate that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well.

3.2 Groundwater Samples

Ensolum compared the laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the December 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 1,090 mg/L to 1,280 mg/L were observed during the December 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 0.0139 mg/L to 0.0224 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

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

4.0 RECOMMENDATIONS

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

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.
- Nicholson, Jr. A. and A. Clebsch, Jr. 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. United States Geological Survey Ground-Water Report 6. Prepared in cooperation with the New Mexico Institute of Mining and Technology, State Bureau of Mines and Mineral Resources Division and the New Mexico State Engineer.
- Gorody, A.W., 2012. Factors affecting the variability of stray gas concentration and composition ingroundwater. Environ. Geosci. 19, 17–31. <https://doi.org/10.1306/eg.12081111013>.
- Molofsky, L.J., Richardson, S.D., Gorody, A.W., Baldassare, F., Connor, J.A., McHugh, T.E., Smith, A.P., Wylie, A.S., Wagner, T., 2018. Purging and other sampling variables affecting dissolved methane concentration in water supply wells. Sci. Total Environ. 618, 998-1007. <https://doi.org/10.1016/j.scitotenv.2017.09.077>.



APPENDIX A

Figures and Graphs



SITE MAP

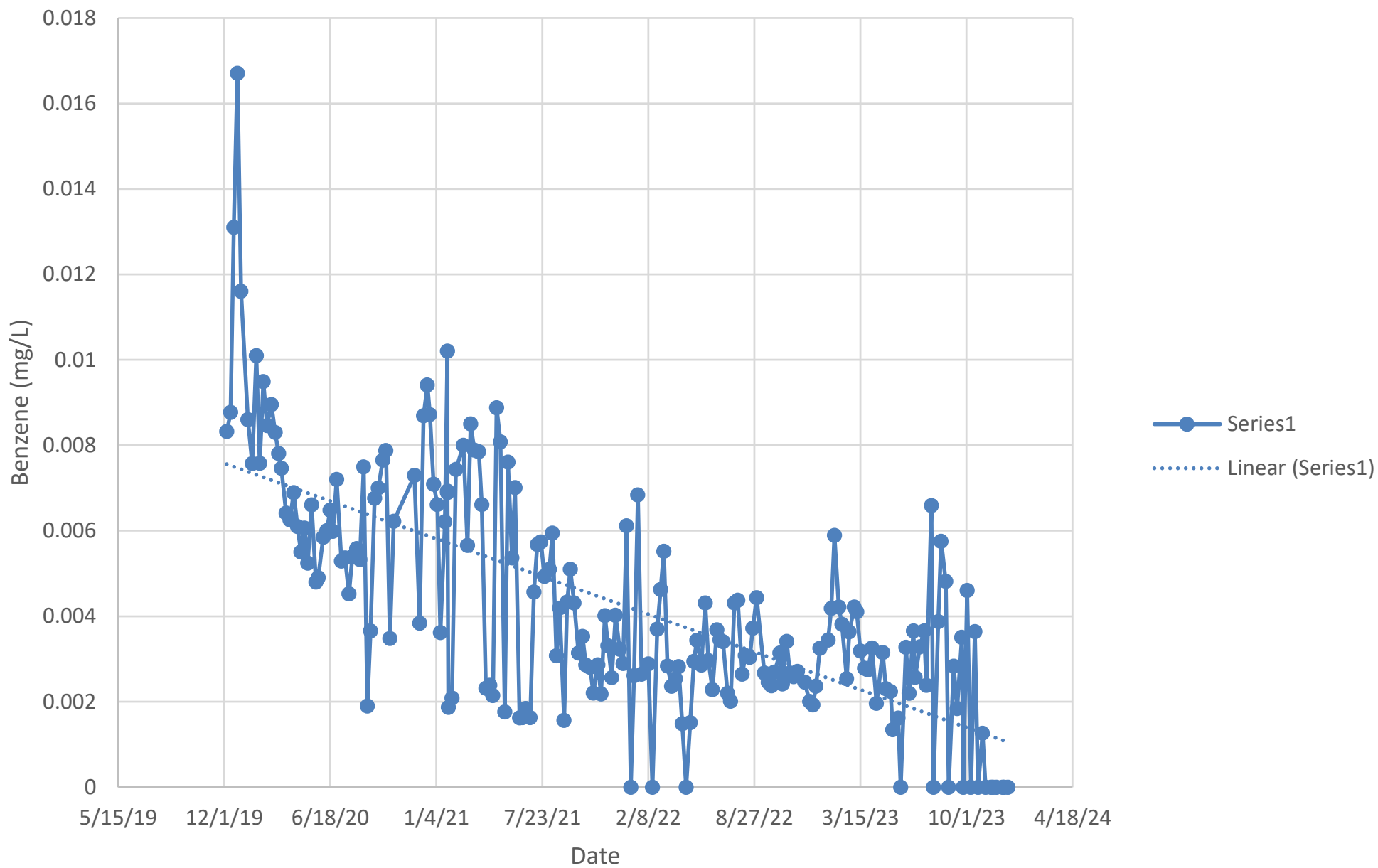
OCCIDENTAL PERMIAN LTD
S HOBBS G/SA UNIT
Unit F, Sec 5, T19S, R38E, Hobbs, New Mexico
32.690683° N, 103.173158° W

PROJECT NUMBER: 03B1417002

FIGURE

1

Levey Well Benzene Over Time





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	&																			

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	1/25/2021	0.00693	0.0342	0.0251	0.0113	0.0737	0.0850	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00146	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0133	<0.0100	0.0124	<0.00100	<0.00100	0.0738	0.0218
	1/27/2021	0.00186	0.00398	0.0101	0.00322	0.0219	0.0251	<0.0500	0.00110	0.00169	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00618	<0.0100	0.0125	<0.00100	<0.00100	0.0743	0.0224
	2/3/2021	0.00208	0.00551	0.0120	0.00438	0.0262	0.0306	<0.0500	<0.00100	0.00195	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00101	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00756	<0.0100	0.0156	<0.00100	<0.00100	0.0945	0.0282
	2/10/2021	0.00743	0.0531	0.0280	0.0157	0.104	0.120	<0.0500	0.00140	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0142	<0.0100	0.00876	<0.00100	<0.00100	0.0448	0.0143
	2/24/2021	0.00800	0.0593	0.0287	0.0177	0.109	0.127	<0.0500	<0.00100	0.0024	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00142	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0140	<0.0100	0.00808	<0.00100	<0.00100	0.0408	0.0132
	3/4/2021	0.00566	0.0446	0.0222	0.0133	0.0869	0.100	<0.0500	<0.00100	0.00187	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00110	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00694	<0.00100	<0.00100	0.0390	0.0119
	3/10/2021	0.00850	0.0668	0.0314	0.0194	0.126	0.145	<0.0500	<0.00100	0.00270	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00176	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0156	<0.0100	0.00898	<0.00100	<0.00100	0.0466	0.0150
	3/17/2021	0.00789	0.0563	0.0273	0.0168	0.103	0.120	0.0253 J	0.000840 J	0.00239	<0.000195	<0.00100	<0.00100	NA	<0.000214	<0.000183	0.00139	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00830	<0.000228	<0.000162	0.0427	0.0135
	3/25/2021	0.00785	0.0585	0.0276	0.0175	0.109	0.127	0.0206 J	0.00129	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00143	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0141	<0.0100	0.00779	<0.00100	<0.00100	0.0416	<0.00100
	3/31/2021	0.00661	0.0459	0.0243	0.0143	0.0857	0.100	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	0.00302	<0.000183	0.00144	<0.000244	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00840	<0.000228	<0.000162	0.0422	0.01370
	4/8/2021	0.00231	0.00502	0.0106	0.00358	0.0227	0.0263	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00103	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00689	<0.0100	0.0148	<0.00100	<0.00100	0.0951	0.0639
	4/15/2021	0.00238	0.00491	0.0109	0.00364	0.0266	0.0302	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00109	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00733	<0.0100	0.0162	<0.00100	<0.00100	0.111	<0.00100
	4/21/2021	0.00214	0.00431	0.00957	0.00340	0.0198	0.0232	<0.00270	<0.000286	0.00181	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00103	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00658	<0.00200	0.0149	<0.000228	<0.000623	0.109	0.0631
	4/28/2021	0.00888	0.0652	0.0325	0.0201	0.121	0.141	0.0198 J	<0.000286	0.00259	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0161	<0.00200	0.00855	<0.000228	<0.000623	0.0431	0.0138
	5/5/2021	0.00808	0.0527	0.0257	0.0160	0.0935	0.110	<0.00270	0.00135	0.00232	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0121	<0.00200	0.00760	<0.000228	<0.000623	0.0414	<0.000279
	5/13/2021	0.00176	0.00332	0.00899	0.00297	0.0187	0.0217	<0.00270	0.00109	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000802 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00592	<0.00200	0.0139	<0.000228	<0.000623	0.0828	0.0239
	5/19/2021	0.00760	0.0603	0.0296	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	<0.000199	<0.000481	0.0111	<0.00200	0.00924	<0.000228	<0.000623	0.0483	0.0150
	6/2/2021	0.00701	0.0521	0.0258	0.0154	0.0906	0.106	<0.00270	<0.000286	0.00254	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00160	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0130	<0.00200	0.00800	<0.000228	<0.000623	0.0388	0.0128
	6/10/2021	0.00162	0.00304	0.00713	0.00221	0.0146	0.0168	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	0.00195	0.0126	<0.000214	<0.000183	0.000716 J	<0.000285	<0.000396	<0.000174	<0.000199	0.00516	0.00483	<0.00200	0.0109	<0.000228	<0.000623	0.0658	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	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	2/16/2022	0.000814 J	0.00676	0.00397	0.00212	0.0142	0.0163	<0.00270	<0.000286	<0.000199	<0.000195	0.00175	<0.000259	<0.000318	<0.000214	<0.000183	0.000336 J	<0.000285	0.000534 J	<0.000174	<0.000199	<0.000481	0.00202	<0.00200	0.00130	<0.000228	<0.000623	0.00924	0.00283
	2/25/2022	0.00370	0.0196	0.0133	0.00750	0.0489	0.0564	0.00976 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000696 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00626	<0.00200	0.00308	<0.000228	<0.000623	0.0131	0.00450
	3/3/2022	0.00462	0.0327	0.0162	0.00973	0.0634	0.0731	0.0180 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00731	<0.00200	0.00342	<0.000228	<0.000623	0.0140	0.00470
	3/9/2022	0.00552	0.0388	0.0204	0.0124	0.0768	0.0892	<0.00270	0.00169	0.00180	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00966	<0.00200	0.00484	<0.000228	<0.000623	0.0226	0.00720
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.00283	0.0227	0.0106	0.00619	0.0409	0.0471	<0.00270	<0.000286	0.000916 J	<0.000195	0.00174	<0.000259	<0.000318	<0.000214	<0.000183	0.000550 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00477	<0.00200	0.00238	<0.000228	<0.000623	0.0114	0.00388
	3/24/2022	0.00236	0.0178	0.00867	0.00491	0.0341	0.0390	<0.00270	0.000553 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000509 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00409	<0.00200	0.00208	<0.000228	<0.000623	0.0101	0.00323
	3/31/2022	0.00254	0.0197	0.00985	0.00574	0.0371	0.0428	0.00431 J	<0.000286	0.000932 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000605 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00482	<0.00200	0.00233	<0.000228	<0.000623	0.0121	0.00390
	4/6/2022	0.00282	0.0215	0.0106	0.00647	0.0405	0.0470	0.00381 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000581 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00491	<0.00200	0.00250	<0.000228	<0.000623	0.0125	0.00386
	4/13/2022	0.00148	0.0113	0.00559	0.00334	0.0211	0.0244	<0.00270	<0.000286	<0.000199	<0.000195	0.000531 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000351 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00269	<0.00200	0.00153	<0.000228	<0.000623	0.00856	0.00264
	4/20/2022	0.000594 J	0.00776	0.00375	0.00212	0.0158	0.0179	<0.00270	<0.000286	0.000408 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000239 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00196	<0.00200	0.000651 J	<0.000228	<0.000623	0.00643	0.00156
	4/28/2022	0.00151	0.0112	0.00540	0.00323	0.0207	0.0239	<0.00270	<0.000286	0.000523 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00238	<0.00200	0.00133	<0.000228	<0.000623	0.00733	0.00242
	5/5/2022	0.00294	0.0275	0.0130	0.00761	0.0515	0.0591	<0.00270	<0.000286	0.00117	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000709 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00600	<0.00200	0.00265	<0.000228	<0.000623	0.0145	0.00440
	5/10/2022	0.00343	0.0282	0.0132	0.00821	0.0517	0.0599	<0.00270	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000652 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00630	<0.00200	0.00301	<0.000228	<0.000623	0.0148	0.00463
	5/19/2022	0.00285	0.0228	0.0107	0.00633	0.0424	0.0487	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000527 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.00232	<0.000228	<0.000623	0.0102	0.00345
	5/26/2022	0.00431	0.0360	0.0171	0.0109	0.0679	0.0788	<0.00270	<0.000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000918 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00840	<0.00200	0.00391	<0.000228	<0.000623	0.0182	0.00580
	6/1/2022	0.00296	0.0233	0.0107	0.00653	0.0423	0.0488	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000538 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00499	<0.00200	0.00212	<0.000228	<0.000623	0.00987	0.00337
	6/9/2022	0.00228	0.0182	0.00874	0.00514	0.0352	0.0403	<0.00270	0.000536 J	0.000776 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000539 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00436	<0.00200	0.00197	<0.000228	<0.000623	0.00847	0.00271
	6/17/2022	0.00368	0.0282	0.0141	0.00881	0.0544	0.0632	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000744 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00678	<0.00200	0.00340	<0.000228	<0.000623	0.0152	0.00482
	6/23/2022	0.00344	0.0304	0.0149	0.00959	0.0599	0.0695	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000733 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00715	<0.00200	0.00313	<0.000228</			

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	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	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00406	<0.00135	0.00199	<0.000511	<0.000655	0.00922	0.00261
	7/5/2023	0.00328	0.0241	0.0126	0.00842	0.0508	0.0592	<0.00828	<0.000644	0.00119	<0.000442	<0.000801	0.0173	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00636	<0.00135	0.00280	<0.000511	<0.000655	0.0129	0.00384
	7/13/2023	0.00365	0.0239	0.0125	0.00796	0.0540	0.0620	<0.00828	<0.000644	0.00102	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00586	<0.00135	0.00252	<0.000511	<0.000655	0.0123	0.00368
	7/17/2023	0.00238	0.0198	0.0103	0.00646	0.0431	0.0496	<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	0.00484	<0.00135	0.00222	<0.000511	<0.000655	0.0102	0.00307
	7/27/2023	0.00659	0.0421	0.0228	0.0138	0.0887	0.103	<0.00828	0.00111	0.00197	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.00116	<0.000590	0.00262 J	<0.000714	<0.000513	<0.00160	0.0111	<0.00135	0.00502	<0.000511	<0.000655	0.0219	0.00651
	7/31/2023	<0.000460	0.000786 J	0.000681 J	<0.000551	0.00256 J	0.00256 J	<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	0.00120	<0.000456
	8/9/2023	0.00387	0.0283	0.0140	0.00880	0.0548	0.0636	<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	0.00660	<0.00135	0.00283	<0.000511	<0.000655	0.0115	0.00388
	8/14/2023	0.00575	0.0378	0.0185	0.0117	0.0754	0.0871	<0.00828	0.000788 J	0.00143	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00855	<0.00135	0.00372	<0.000511	<0.000655	0.0157	0.00509
	8/23/2023	0.00481	0.0338	0.0168	0.0113	0.0683	0.0796	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.0011														

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

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

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

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-1	12/16/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	12/22/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	12/29/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	1/6/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	1/12/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000396	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	1/19/2022	<0.000214	<0.000500	<0.000515	<0.000192	0.000640 J	0.000640 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000396	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	0.000414 J	<0.000279
	1/26/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	0.000623	<0.000252	<0.000279
	2/2/2022		Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																										
	2/8/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	0.000799 J	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	2/16/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	2/25/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/3/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/9/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																										
	3/16/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/24/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/31/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	4/6/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	4/13/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	4/20/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	4/28/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	5/5/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	5/10/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	5/19/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	5/26/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	6/1/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	6/9/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000199	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	6/17/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	6/23/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161						

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

Sample Designation		Date	VOCs (mg/L)																											
			Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards			0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	5/26/2020	0.00901	0.0299	0.0069	0.0186	0.0545	0.0731	<0.00270	<0.000286	0.000270 J	<0.000195	<0.00500	<0.000259	NA	<0.000214	<0.000183	0.000660	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00223	<0.00200	0.000570 J	<0.000228	<0.000162	0.0125	0.00704	
	6/30/2020	0.0124	0.0193	0.0187	0.0196	0.0903	0.110	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00667	<0.0100	0.00243	<0.00100	<0.00100	0.0231	0.00815	
	8/20/2020	0.0148	0.0172	0.0182	0.0160	0.0802	0.0962	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00640	<0.0100	0.00170	<0.00100	<0.00100	0.0145	0.00421	
	10/23/2020	0.0250	0.00730	0.0248	0.0186	0.110	0.129	NA											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	0.000640 J	<0.000195	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000480 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0060	<0.00200	0.00175	<0.000228	<0.000162	0.0191	0.00496	
	3/4/2021	0.0264	0.0232	0.0320	0.0212	0.142	0.163	<0.00575	0.000430 J	0.00131	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000930 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0115	<0.00200	0.00390	<0.000228	<0.000162	0.0403	0.0100	
	3/10/2021	0.0269	0.0234	0.0271	0.0206	0.117	0.138	<0.00575	<0.000286	0.000970 J	<0.000195	<0.00100	<0.000259	NA	<0.000214	<0.000183	0.000720 J	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.00931	<0.00200	0.00281	<0.000228	<0.000162	0.0287	0.00720	
	3/17/2021	0.0238	0.0237	0.0257	0.0190	0.113	0.132	<0.0500	<0.00100	0.00113	<0.00100	<0.00100	<0.000259	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00500	<0.00500	<0.00100	<0.00500	0.00923	<0.0100	0.00305	<0.00100	<0.00100	0.0315	0.00821
	3/25/2021	0.0209	0.0281	0.0202	0.0165	0.0892	0.106	<0.0500	<0.00100	0.000799 J	0.00134	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.000610 J	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<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		

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	12/22/2021	0.0351	0.0155	0.0376	0.0216	0.282	0.315	<0.00270	<0.000286	0.00168	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00135	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0129	<0.00200	0.00448	<0.000228	<0.000623	0.0528	0.0139
	12/29/2021	0.0257	0.0232	0.0131	0.0147	0.0738	0.0885	<0.00270	<0.000286	0.000412 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000356 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00356	<0.00200	0.000712 J	<0.000228	<0.000623	0.0148	0.00395
	1/6/2022	0.0360	0.00656	0.0309	0.0229	0.253	0.274	<0.00270	0.00192	0.00273	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00265	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00488	<0.000228	<0.000623	0.108	0.0273
	1/12/2022	0.0205	0.00174	0.00106	0.0200	0.0949	0.115	<0.00270	<0.000286	0.00132	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	0.00184	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.000546 J	<0.000228	<0.000623	0.0619	0.00491
	1/19/2022	0.0262	0.00733	0.0305	0.0147	0.229	0.249	<0.00270	0.00104	0.00147	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0142	<0.00200	0.00403	<0.000228	<0.000623	0.0435	0.0115
	1/26/2022	0.0331	0.00488	0.0137	0.00718	0.0755	0.0827	<0.00270	<0.00286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000314 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00555	<0.00200	0.00112	<0.000228	<0.000623	0.0145	0.00380
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.0184	0.00572	0.0133	0.00676	0.0653	0.0721	<0.00270	<0.00286	0.000510 J	<0.000195	<0.000500	<0.000259	0.00165 J	<0.000214	<0.000183	0.000391 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00544	<0.00200	0.00149	<0.000228	<0.000623	0.0150	0.00409
	2/16/2022	0.0357	0.0270	0.0391	0.0307	0.205	0.244	<0.00270	<0.00286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000884 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0127	<0.00200	0.00392	<0.000228	<0.000623	0.0393	0.0103
	2/25/2022	0.0341	0.00559	0.0206	0.0111	0.134	0.145	<0.00270	<0.000286	<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	<0.000286	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	<0.000286	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	<0.000286	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	<0.0										

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	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	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	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<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	0.00117	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0110	<0.00135	0.00325	<0.000511	<0.000655	0.0320	0.00823
	6/26/2023	0.0161	0.00327	0.0163	0.0148	0.0553	0.0701	<0.00828	<0.000644	0.00105	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.000958 J	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00672	<0.00135	0.00234	<0.000511	<0.000655	0.0330	0.00840
	7/5/2023	0.0146	0.00280	0.0159	0.0122	0.0469	0.0591	<0.00828	<0.000644	0.000973 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	0.00819	<0.00135	0.00231	<0.000511	<0.000655	0.0255	0.00670
	7/13/2023	0.0223	0.00332	0.0210	0.0162	0.0506	0.0668	<0.00828	0.000658 J	0.000815 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	0.00786	<0.00135	0.00211	<0.000511	<0.000655	0.0289	0.00696
	7/17/2023	0.0131	0.00244	0.0120	0.00986	0.0413	0.0512	<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	0.00600	<0.00135	0.00149	<0.000511	<0.000655	0.0213	0.00498
	7/27/2023	0.0194	0.00357	0.0193	0.0136	0.0487	0.0623	<0.00828	0.000772 J	0.00105	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.01000	<0.00135	0.00265	<0.000511	<0.000655	0.0274	0.00651
	7/31/2023	0.0154	0.00300	0.0147	0.0115	0.0423	0.0538	<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	0.00793	<0.00135	0.00214	<0.000511	<0.000655	0.0252	0.00649
	8/9/2023	0.0126	0.00322	0.0181	0.0126	0.0412	0.0538	<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	0.00716	<0.00135	0.00200	<0.000511	<0.000655	0.0165	0.00460
	8/14/2023	0.0135	0.00306	0.00914	0.0108	0.039.																							



TABLE 2 GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																
Sample Designation	Date	(mg/L)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
Levey Well	12/6/2019	<0.500	253	<0.500	0.594	0.199	61.5	405	65.0	5.27	83.7	1,680	1,260	<4.00	2.70	6.45
	12/13/2019	<0.500	315	<0.500	0.744	0.222	72.9	450	80.1	6.71	110	1,900	1,230	<4.00	2.00	7.02
	12/19/2019	0.414 J	311	0.381 J	0.539	<0.0293	62.9	411	72.2	5.61	101	1,640	1,140	<4.00	0.200	6.57
	12/26/2019	<0.500	257	<0.500	0.617	0.204	61.7	418	68.8	5.82	88.5	1,760	1,280	<4.00	1.30	6.44
	1/2/2020	<0.500	302	<0.500	0.331	<0.100	60.6	375	70.5	5.96	98.8	1,630	1,150	<4.00	2.40	6.83
	1/15/2020	<0.500	190	0.559	0.129	0.930	53.5	401	66.8	4.82	82.9	1,570	1,260	<4.00	0	6.35
	1/23/2020	<0.500	195	0.617	0.126	0.128	46.2	426	76.3	8.84	86.4	1,530	1,230	<4.00	1.60	6.21
	1/31/2020	<0.500	197	0.616	0.129	<0.100	48.5	446	79.1	7.43	89.5	1,440	1,230	<4.00	3.20	6.15
	2/6/2020	<0.500	316	<0.500	0.179	<0.100	64.2	430	76.0	7.60	101	1,100	1,180	<4.00	1.10	6.07
	2/13/2020	<2.50	293	0.623	0.178	<0.500	57.3	409	74.5	6.80	95.7	1,640	1,200	<4.00	0.300	6.04
	2/20/2020	<0.500	272	0.586	0.157	<0.100	49.6	421	71.4	6.38	91.4	1,690	1,220	<4.00	0.300	5.93
	2/28/2020	<0.500	307	<0.500	1.05	1.35	56.6	438	74.0	5.98	97.4	1,620	1,230	<4.00	0.400	6.12
	3/6/2020	<0.500	284	0.621	0.107	1.27	56.2	418	67.9	5.60	92.7	1,880	1,230	<4.00	0.800	6.26
	3/13/2020	<0.500	316	0.629	<0.100	<0.100	59.3	393	63.3	5.32	91.2	1,770	1,200	<4.00	4.30	6.23
	3/18/2020	0.533	332	0.642	0.128	<0.100	63.5	391	67.4	5.56	95.7	1,680	1,180	<4.00	3.80	6.44
	3/27/2020	0.533	324	0.728	<0.100	<0.100	57.6	418	70.3	5.91	105	1,610	1,180	<4.00	0.200	6.57
	4/3/2020	<0.500	304	0.807	0.110	<0.100	57.3	417	69.0	5.91	101	1,960	1,180	<4.00	0.200	6.37
	4/10/2020	0.575	351	0.612	0.172	<0.100	61.8	431	72.3	6.17	104	1,930	1,190	<4.00	0.600	6.73
	4/17/2020	0.590	353	0.691	0.165	<0.100	59.7	406	73.2	5.40	108	1,750	1,180	<4.00	1.70	6.51
	4/24/2020	0.595	370	0.723	0.152	<0.100	61.2	408	75.2	5.55	113	1,810	1,130	<4.00	0.600	6.32
	5/1/2020	0.576	376	0.686	0.140	<0.100	61.8	402	74.6	5.39	106	1,750	1,130	<4.00	1.90	6.37
	5/7/2020	0.517	365	0.675	0.163	<0.100	58.8	425	70.5	5.57	108	1,640	1,140	<4.00	0.00	6.55
	5/14/2020	0.571	409	0.585	0.160	<0.100	56.0	412	76.5	6.23	107	1,900	1,200	<4.00	3.70	6.34
	5/22/2020	0.531	319	0.561	1.550	<0.100	30.1	354	63.7	5.24	97.4	1,360	1,190	<4.00	6.10	6.54
	5/26/2020	0.549	357	0.688	0.153	<0.100	44.5	356	69.6	5.67	102	1,650	1,170	<4.00	6.30	6.42
	6/5/2020	0.640	417	0.535	0.139	<0.100	39.9	379	73.3	5.92	108	1,670	1,160	<4.00	5.90	6.30
	6/12/2020	0.602	359	0.697	0.145	<0.100	43.9	386	72.4	6.70	106	1,670	1,140	<4.00	2.40	6.22
	6/18/2020	0.576	431	<5.00	0.144	<0.100	39.5	418	78.8	6.23	115	1,800	1,180	<4.00	2.40	6.28
	6/23/2020	0.586	398	<5.00	0.136	<0.100	33.3	361	66.3	5.48	98.2	1,920	1,190	<4.00	8.40	6.23
	6/30/2020	0.695	431	<5.00	0.149	<0.100	37.9	437	78.6	6.70	113	1,830	1,170	<4.00	2.60	6.39
	7/9/2020	0.647	413	<5.00	0.147	0.215	40.5	421	78.5	6.58	114	1,790	1,170	<4.00	1.50	6.37
	7/16/2020	0.657	390	<5.00	0.128	<0.100	40.6	402	77.6	7.01	114	1,890	1,170	<4.00	1.90	6.34
	7/23/2020	0.621	396	<5.00	0.175	0.169	36.5	419	74.0	6.58	111	2,000	1,160	<4.00	1.10	6.22
	7/30/2020	0.669	390	0.625	0.181	<0.100	39.3	397	71.4	5.59	103	1,910	1,170	<4.00	3.70	6.18
	8/7/2020	0.631	387	0.526	0.186	1.75	36.1	404	79.5	6.73	111	1,810	1,150	<4.00	0.900	6.12
	8/13/2020	0.713	408	0.505	0.191	1.45	34.9	368	75.1	6.54	115	1,980	1,150	<4.00	5.00	6.26
	8/20/2020	0.690	449	<0.500	0.164	<0.100	38.7	389	69.0	5.99	113	2,000	1,090	<4.00	4.40	6.18
	8/27/2020	0.846	582	<0.500	0.158	1.68	49.4	446	82.6	7.17	161	2,570	973	<4.00	1.50	6.35
	9/2/2020	0.868	635	<0.500	0.159	<0.100	48.1	422	77.9	7.25	168	1,620	1,030	<4.00	3.40	6.30
	9/10/2020	0.714	499	<0.500	<0.100	1.61	41.9	387	79.4	6.53	133	1,980	1,090	<4.00	4.20	6.10
	9/17/2020	0.769	472	<0.500	0.272	1.06	40.8	467	73.4	6.45	119	1,930	1,110	<4.00	1.10	6.14
	9/25/2020	0.779	541	<0.500	0.150	<0.100	44.0	386	75.9	5.86	133	1,680	1,110	<4.00	6.70	6.17
	10/1/2020	0.721	466	<0.500	0.173	<0.100	41.4	398	75.5	6.25	124	1,940	1,110	<4.00	3.30	6.07
	10/9/2020	0.786	527	<0.500	0.161	<0.100	43.8	426	79.8	6.90	139	2,220	1,090	<4.00	1.90	6.21
	10/16/2020	0.595	460	0.511	<0.100	<2.00	45.7	376	72.5	5.90	122	2,020	1,080	<4.00	4.80	6.20
	11/24/2020	0.817	572	<0.500	0.124	2.07	37.5	438	79.6	6.56	141	2,200	1,100	<4.00	2.60	6.45
	12/4/2020	0.687	706	<0.500	0.142	3.27	30.9	405	75.8	7.09	143	2,000	1,050	<4.00	9.30	6.33
	12/11/2020	0.816	487	0.949	0.197	1.80	33.4	445	82.0	6.90	133	1,990	1,160	<4.00	0.200	6.20
	12/18/2020	0.763	497	<5.00	0.129	1.87	37.6	424	79.5	6.97	137	1,910	1,180	<4.00	2.70	6.39
	12/23/2020	0.613	477	<5.00	0.108	<0.100	38.3	416	78.2	7.82	129	1,800	1,290	<4.00	5.70	6.22
	12/30/2020	0.712	493	<0.500	<0.100	<0.100	40.1	448	80.0	6.21	139	2,120	1,340	<4.00	4.40	6.14



TABLE 2 GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																	
Sample Designation	Date	(mg/L)													%	SU	
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9	
Levey Well	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 Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.															
	2/8/2022	0.780	329	1.24	<0.0391	0.420	62.0	272	58.5	4.77	97.0	1,410	756	<4.00	-11.40	6.5	
	2/16/2022	0.488 J	217	0.769	0.0551 J	0.349	27.9	212	46.2	3.76	74.5	1,070	555	<4.00	-6.59	6.6	
	2/25/2022	0.726	484	0.902	0.141	<0.0293	31.2	429	78.2	6.80	139	1,960	1,210	<4.00	-9.05	6.4	
	3/3/2022	0.606	380	1.76	0.220	0.175	39.8	410	78.2	7.36	137	2,130	1,190	<4.00	-6.76	6.3	
	3/9/2022	0.507	355	1.10	0.147	<0.0293	42.6	422	79.4	7.55	129	1,820	1,160	<4.00	-4.98	6.3	
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.															
	3/16/2022	0.380 J	229	0.464 J	0.208	<0.0293	42.2	258	55.9	4.48	85.6	1,190	673	<4.00	-4.29	6.4	
	3/24/2022	0.539	230	0.709	<0.0391	<0.0293	43.4	252	51.3	4.07	81.5	1,390	644	<4.00	-4.80	6.5	
	3/31/2022	0.515	223	0.690	0.239	<0.0293	44.0	245	52.7	3.79	77.2	1,220	641	<4.00	-5.18	6.4	
	4/6/2022	0.540	218	0.868	0.0931 J	<0.0293	42.4	256	50.3	3.90	76.6	1,220	619	<4.00	-2.94	6.4	
	4/13/2022	0.400 J	212	0.773	0.111	<0.0293	42.0	256	51.3	3.87	74.5	1,200	650	<4.00	-3.94	6.6	
	4/20/2022	0.496 J	218	0.651	0.268	<0.0293	44.6	238	48.7	4.05	75.0	1,260	686	<4.00	-8.77	6.6	
	4/28/2022	0.477 J	214	0.690	0.104	<0.0293	43.2	272	55.4	4.43	84.3	1,140	658	<4.00	-1.11	6.8	
	5/5/2022	0.352 J	217	0.567	0.737 J	1.93	41.8	233	49.1	3.67	82.4	1,210	659	<4.00	-7.39	6.6	
	5/10/2022	0.589	219	0.643	0.100	<0.0293	44.6	301	61.6	4.74	90.5	1,080	652	<4.00	2.74	6.4	
	5/19/2022	0.551	217	0.519	<0.0391	<0.0293	45.9	242	51.7	4.08	74.8	1,040	421	<4.00	5.76	6.7	
	5/26/2022	0.606	212	0.714	0.0986 J	2.77	41.2	215	38.7	2.93	66.7	1,240	683	<4.00	-11.5	6.2	
	6/1/2022	0.449 J	205	0.788	0.0622 J	<0.0293	37.2	219	42.0	3.22	67.7	1,100	402	<4.00	2.15	7.0	
	6/9/2022	0.395 J	215	0.332 J	0.0721 J	<0.0293	44.2	295	53.3	4.27	80.9	1,170	712	<4.00	-1.83	6.3	
	6/17/2022	0.282 J	204	0.643	0.151	<0.0293	43.9	190	35.3	2.54	59.9	1,160	619	<4.00	-16.7	6.4	
	6/23/2022	0.321 J	206	0.377 J	0.250	<0.0293	38.4	306	47.2	3.80	73.0	1,150	454	<4.00	11.3	6.5	
	6/29/2022	0.350 J	213	0.505	0.207	<0.0293	44.4	243	49.9	3.79	77.7	889	674	<4.00	-6.92	6.3	
	7/7/2022	0.425 J	214	0.609	<0.0391	<0.0293	46.0	251	50.6	3.88	77.0	1,470	592	<4.00	-2.28	6.5	
	7/13/2022	0.393 J	212	0.663	0.129	<0.0293	46.2	245	48.1	3.89	74.2	1,160	417	<4.00	5.53	6.3	
	7/20/2022	0.468 J	207	0.383 J	0.0538 J	<0.0293	47.5	251	51.8	4.12	77.2	1,170	742	<4.00	-8.12	6.4	
	7/27/2022	0.437 J	209	0.349 J	0.201	<0.0293	46.2	215	42.6	3.22	68.3	1,350	601	<4.00	-9.64	6.7	
	8/4/2022	0.483 J	211	0.453 J	0.236	<0.0293	45.4	199	39.8	3.04	65.6	1,300	600	<4.00	-13.2	6.4	
	8/10/2022	0.464 J	215	0.475 J	0.103	<0.0293	44.3	278	53.6	4.27	78.9	1,160	567	<4.00	3.02	6.5	
	8/18/2022	0.473 J	213	0.552	0.157	<0.0293	45.4	261	52.0	4.22	80.6	1,370	563	<4.00	0.748	6.5	
	8/24/2022	0.500	222	0.674	<0.100	<0.100	48.7	229	46.5	3.28	72.0	1,280	728	<4.00	-12.7	6.6	
	8/31/2022	0.434 J	217	0.468 J	<0.0391	<0.0293	46.8	253	50.7	4.20	79.3	1,270	651	<4.00	-4.91	6.9	
	9/15/2022	1.55	218	0.688	0.116	<0.0293	47.4	241	52.6	4.39	81.7	1,170	618	<4.00	-4.19	6.4	
	9/22/2022	0.468 J	217	0.316 J	0.546	<0.0293	52.8	179	39.9	3.11	66.4	1,250	613	<4.00	-17.7	6.4	
	9/28/2022	2.32	214	0.688	0.234	<0.0293	47.2	242	48.3	4.11	73.6	1,160	592	<4.00	-4.04	6.4	
	10/4/2022	0.515	200	0.740	0.396	<0.0293	45.0	242	50.2	4.07	78.2	706	456	<4.00	4.21	6.6	
	10/14/2022	0.495 J	212	0.655	0.464	<0.0293	49.1	208	42.7	3.22	68.5	1,250	719	<4.00	-16.5	6.3	
	10/19/2022	1.08 J	206	0.612 J	0.359	<0.0293	46.0	250	51.3	4.05	81.9	1,340	676	<4.00	-5.64	6.6	
	10/27/2022	0.412 J	201	0.631	0.0757 J	0.690	40.1	322	64.8	5.47	95.2	977	740	<4.00	3.53	6.4	
	11/2/2022	0.473 J	216	0.509	0.165	<0.0293	46.1	247	49.2	4.26	76.4	1,230	681	<4.00	-6.86	6.3	
	11/9/2022	0.461 J	218	0.683	0.0934 J	<0.0293	46.5	238	44.2	3.36	73.3	1,450					



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	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
	11/6/2023	0.272 J	222	0.379 J	<0.0391	<0.0293	43.3	201	40.3	3.02	71.9	1,160	408	<4.00	-2.77	6.9
	11/16/2023	0.425 J	221	0.299 J	0.142	<0.0293	50.4	223	44.0	3.83	75.9	1,340	678	<4.00	-11.3	6.3
	11/20/2023	0.826	224	0.747	0.137	0.970	43.6	194	38.8	2.80	73.4	1,030	437	<4.00	-5.89	7.1
	11/27/2023	0.569	223	0.617	0.124	0.462	49.2	283	52.9	4.51	89.0	1,300	676	<4.00	-2.72	6.3
	12/8/2023	0.500	238	0.645	0.143	<0.0293	45.7	203	40.9	2.71	78.5	1,090	439	<4.00	-4.79	7.0
	12/11/2023	0.640	226	0.564	0.157	0.660	49.7	272	52.6	4.53	84.9	1,280	652	<4.00	-2.23	6.5
12/18/2023	0.525	234	0.825	0.125	<0.0293	43.2	188	39.9	2.85	72.0	1,140	454	<4.00	-8.07	7.2	



TABLE 2 GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																			
Sample Designation	Date	(mg/L)													%	SU			
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH			
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9			
MW-1	5/26/2020	NA	363	0.913	0.998	1.03	283	NA											7.21
	6/30/2020	0.591	342	<0.500	0.145	<0.100	88.8	401	84.7	6.41	191	1,890	1,290	<4.00	NA	6.75			
	8/20/2020	0.634	339	<0.500	<0.100	<0.100	68.3	401	90.3	5.38	147	1,760	1,210	<4.00	NA	6.30			
	10/23/2020	NA	353	NA															
	11/24/2020	0.629	345	0.309 J	0.161	2.00	73.2	412	82.8	5.61	124	1,630	1,200	<4.00	0.400	6.45			
	12/18/2020	NA	375	NA				414	79.7	5.41	117	1,380	1,160	<4.00	1.30	6.58			
	12/23/2020	0.627	339	0.316 J	0.117	<0.0293	73.2	408	82.5	6.58	119	1,600	1,130	<4.00	2.10	6.56			
	12/30/2020	NA	347	NA															6.37
	1/6/2021	NA	325	NA															6.51
	1/12/2021	NA	359	NA									1,160	<4.00	NA	6.42			
	1/20/2021	NA	353	NA									1,160	<4.00	NA	6.34			
	1/27/2021	NA	334	NA									1,010	<4.00	NA	6.44			
	2/3/2021	NA	368	NA									1,130	<4.00	NA	6.38			
	2/10/2021	NA	339	NA									1,160	<4.00	NA	6.45			
	2/24/2021	NA	343	NA									1,070	<4.00	NA	6.45			
	3/4/2021	NA	339	NA									1,070	<4.00	NA	6.38			
	3/10/2021	NA	324	NA									1,020	<4.00	NA	6.34			
	3/17/2021	NA	330	NA									1,020	<4.00	NA	6.16			
	3/25/2021	NA	312	0.367 J	0.129	<0.100	77.5	NA					980	<4.00	NA	6.9			
	3/31/2021	NA	309	0.387 J	0.175	<0.0293	81.3	NA					977	<4.00	NA	6.7			
	4/8/2021	NA	290	0.515	0.0994 J	<0.0293	58.1	NA					933	<4.00	NA	6.5			
	4/15/2021	NA	272	0.583	0.107	<0.0293	54.0	NA					833	<4.00	NA	6.6			
	4/21/2021	NA	299	0.369 J	0.135	<0.0293	52.7	NA					927	<4.00	NA	6.5			
	4/28/2021	NA	315	0.315 J	0.119	<0.0293	57.8	NA					994	<4.00	NA	6.5			
	5/5/2021	NA	317	0.358 J	0.135	<0.0293	68.5	NA					1,020	<4.00	NA	6.5			
	5/13/2021	NA	270	0.492 J	0.125	0.729 J	55.6	NA					819	<4.00	NA	6.8			
	5/19/2021	NA	324	0.335 J	<0.0391	2.58	65.0	NA					1,070	<4.00	NA	6.5			
	5/27/2021	NA	325	0.380 J	0.128	0.148	70.3	NA					971	<4.00	NA	6.3			
	6/2/2021	NA	315	0.305 J	0.146	<0.0293	72.8	NA					979	<4.00	NA	6.5			
	6/10/2021	NA	295	0.561	0.130	1.44	64.7	NA					768	<4.00	NA	6.6			
	6/16/2021	NA	320	0.478 J	0.127	0.243	59.1	NA					811	<4.00	NA	6.7			
	6/22/2021	NA	311	0.478 J	0.119	1.65	56.9	NA					790	<4.00	NA	6.8			
	6/30/2021	NA	308	0.561	0.145	0.168	64.2	NA					813	<4.00	NA	6.7			
	7/1/2021	Levey Well Now Running Full Time																	
	7/7/2021	NA	325	0.547	0.127	<0.0293	75.9	NA					761	<4.00	NA	6.8			
	7/14/2021	NA	360	0.418 J	0.134	0.0880 J	112	NA					931	<4.00	NA	6.8			
	7/20/2021	NA	324	0.138 J	0.0457 J	<0.0293	81.5	NA					750	<4.00	NA	6.7			
	7/27/2021	NA	352	0.340 J	0.148	1.22	82.8	NA					786	<4.00	NA	6.7			
	8/5/2021	NA	336	0.426 J	0.117	<0.0293	79.0	NA					695	<4.00	NA	6.9			
	8/11/2021	NA	326	0.342 J	0.153	1.48	85.5	NA					735	<4.00	NA	6.6			
	8/19/2021	NA	334	0.227 J	0.149	1.36	81.9	NA					810	<4.00	NA	6.8			
	8/25/2021	NA	328	0.395 J	0.132	0.947 J	76.5	NA					809	<4.00	NA	6.8			
	9/2/2021	NA	325	0.311 J	0.105	<0.0293	74.7	NA					755	<4.00	NA	6.8			
	9/8/2021	NA	272	0.442 J	0.103	0.782 J	64.5	NA					584	<4.00	NA	6.9			
	9/14/2021	NA	332	0.276 J	0.103	0.776 J	98.4	NA					660	<4.00	NA	7.0			
	9/21/2021	NA	203	0.896	0.186	<0.0293	32.4	NA					419	<4.00	NA	6.9			
	9/29/2021	NA	232	0.659	0.168	0.0819 J	40.1	NA					505	<4.00	NA	6.9			
	10/7/2021	NA	253	0.626	0.186	<0.0293	58.2	NA					567	<4.00	NA	6.9			
	10/13/2021	NA	268	0.659	0.178	<0.0293	62.9	NA					564	<4.00	NA	8.1			
	10/21/2021	NA	293	0.409 J	0.144	<0.0293	81.1	NA					591	<4.00	NA	7.1			
	11/5/2021	NA	282	0.631	0.191	<0.0293	77.1	NA					571	<4.00	NA	7.0			
	11/11/2021	NA	311	0.309 J	0.258	<0.0293	89.9	NA					536	<4.00	NA	7.1			
	11/18/2021	NA	172	0.741	0.151	<0.0293	23.1	NA					314	<4.00	NA	7.4			
	11/24/2021	NA	267	0.429 J	0.220	0.549	81.4	NA					502	<4.00	NA	6.8			
	12/1/2021	NA	222	0.596	0.141	<0.0293	61.0	NA					390	<4.00	NA	7.3			
	12/8/2021	NA	226	0.358 J	0.162	<0.0293	66.0	NA					484	<4.00	NA	6.9			
	12/16/2021	NA	174	0.504	0.143	<0.0293	49.9	NA					398	<4.00	NA	6.9			
	12/22/2021	NA	163	0.517	0.240	<0.0293	40.2	NA					312	<4.00	NA	7.1			
	12/29/2021	NA	142	0.591	0.205	0.295	42.2	NA					302	<4.00	NA	7.3			
	1/6/2022	NA	138	0.471 J	0.180	<0.0293	43.2	NA					335	<4.00	NA	7.0			
	1/12/2022	NA	149	0.491 J	0.154	0.0428 J	42.1	NA					326	<4.00	NA	6.7			
	1/19/2022	NA	141	0.532	0.145	0.227	45.1	NA					324	<4.00	NA	7.0			
	1/26/2022	NA	142	0.548	0.177	0.150	44.7	NA					282	<4.00	NA	7.1			
	2/2/2022	Unable to Sample due to 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				



TABLE 2 GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																
Sample Designation	Date	(mg/L)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
MW-1	8/24/2022	NA	92.0	0.739	<0.100	<0.100	40.8			NA			273	<4.00	NA	7.2
	8/31/2022	NA	85.9	0.628	<0.0391	<0.0293	36.7			NA			277	<4.00	NA	7.4
	9/15/2022	NA	86.4	1.03	0.0909 J	0.206	33.4			NA			277	<4.00	NA	7.0
	9/22/2022	NA	95.8	0.585	0.518	<0.0293	38.4			NA			280	<4.00	NA	7.3
	9/28/2022	NA	91.2	0.702	<0.0391	<0.0293	32.8			NA			285	<4.00	NA	7.3
	10/4/2022	NA	75.6	0.803	0.376	0.201	33.7			NA			272	<4.00	NA	7.2
	10/14/2022	NA	81.0	0.807	0.360	0.195	33.1			NA			266	<4.00	NA	7.3
	10/19/2022	NA	136	<0.100	<0.0391	<0.0293	19.2			NA			283	<4.00	NA	7.4
	10/27/2022	NA	80.4	0.750	0.0601 J	0.423	29.8			NA			277	<4.00	NA	7.4
	11/2/2022	NA	80.0	0.681	0.120	0.154	29.8			NA			252	<4.00	NA	7.2
	11/9/2022	NA	81.1	0.746	0.141	0.117	32.5			NA			294	<4.00	NA	7.4
	11/16/2022	NA	82.2	0.738	0.120	0.384	30.9			NA			282	<4.00	NA	7.3
	11/30/2022	NA	88.1	0.602	0.140	0.141	45.4			NA			300	<4.00	NA	7.3
	12/9/2022	NA	83.7	0.809	0.0610 J	0.247	44.2			NA			309	<4.00	NA	7.5
	12/15/2022	NA	82.1	0.786	<0.0391	0.121	44.3			NA			348	<4.00	NA	7.2
	12/21/2022	NA	84.4	0.676	0.0802 J	<0.0293	43.6			NA			377	<4.00	NA	7.3
	12/29/2022	NA	77.3	0.555	0.211	0.310	33.4			NA			409	<4.00	NA	7.1
	1/4/2023	NA	75.9	0.863	0.0857 J	<0.0293	39.7			NA			354	<4.00	NA	7.4
	1/13/2023	NA	76.2	0.600	0.208	0.266	41.1			NA			357	<4.00	NA	7.2
	1/19/2023	NA	82.6	0.624	<0.0391	<0.0293	49.2			NA			340	<4.00	NA	7.1
	1/25/2023	NA	73.7	0.631	0.0564 J	0.149	47.7			NA			363	<4.00	NA	7.4
	2/2/2023	NA	75.4	0.670	0.223	0.196	47.2			NA			329	<4.00	NA	7.1
	2/8/2023	NA	84.5	0.607	0.0542 J	0.133	54.7			NA			360	<4.00	NA	7.2
	2/17/2023	NA	102	0.763	<0.0391	<0.0293	65.2			NA			432	<4.00	NA	7.5
	2/22/2023	NA	87.3	0.528	<0.0391	<0.0293	55.6			NA			418	<4.00	NA	7.1
	3/3/2023	NA	70.8	0.703	0.0671 J	0.0580 J	47.8			NA			310	<4.00	NA	7.2
	3/8/2023	NA	94.9	0.471 J	0.0666 J	<0.0293	55.9			NA			397	<4.00	NA	7.0
	3/15/2023	NA	93.9	0.636	<0.0391	<0.0293	51.0			NA			412	<4.00	NA	7.1
	3/23/2023	NA	92.9	0.485 J	0.0908 J	<0.0293	50.9			NA			398	<4.00	NA	7.1
	3/29/2023	NA	91.6	0.619	<0.0391	0.293	46.7			NA			474	<4.00	NA	7.1
	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	
11/6/2023	NA	123	<0.100	0.0630 J	0.551	89.6			NA			775	<4.00	NA	6.8	
11/16/2023	NA	119	0.211 J	0.101	<0.0293	106			NA			900	<4.00	NA	6.6	
11/20/2023	NA	123	0.406 J	0.122	1.08	105			NA			868	<4.00	NA	6.9	
11/27/2023	NA	135	0.428 J	0.0887 J	0.452	124			NA			898	<4.00	NA	6.9	
12/8/2023	NA	130	0.351 J	0.143	<0.0293	115			NA			934	<4.00	NA	7.0	
12/11/2023	NA	137	0.358 J	0.127	0.690	123			NA			937	<4.00	NA	6.8	
12/18/2023	NA	132	0.327 J	0.124	<0.0293	111			NA			918	<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	NA															
	11/24/2020	0.565	180	0.172 J	1.08	0.557	136	841	85.5	12.8	116	1,670	1,450	<4.00	15.4	6.30			
	12/18/2020	NA	153	NA				494	64.9	6.63	98.0	1,410	1,380	<4.00	3.20	6.29			
	12/23/2020	0.621	165	0.179 J	1.11	0.639	126	472	65.7	5.96	101	1,810	1,430	<4.00	0.300	6.27			
	12/30/2020	NA	153	NA															6.15
	1/6/2021	NA	124	NA															6.24
	1/12/2021	NA	141	NA									1,350	<4.00	NA	6.20			
	1/20/2021	NA	133	NA									1,360	<4.00	NA	6.12			
	1/27/2021	NA	140	NA									1,360	<4.00	NA	6.24			
	2/3/2021	NA	178	NA									1,390	<4.00	NA	6.17			
	2/10/2021	NA	133	NA									1,380	<4.00	NA	6.19			
	2/24/2021	NA	146	NA									1,370	<4.00	NA	6.17			
	3/4/2021	NA	166	NA									1,380	<4.00	NA	6.07			
	3/10/2021	NA	175	NA									1,390	<4.00	NA	6.14			
	3/17/2021	NA	163	NA									1,400	<4.00	NA	5.87			
	3/25/2021	NA	161	0.183 J	0.835	0.425	119	NA					1,420	<4.00	NA	6.5			
	3/31/2021	NA	102	0.299 J	0.714	1.13	99.9	NA					1,330	<4.00	NA	6.4			
	4/8/2021	NA	157	0.223 J	0.784	0.549	122	NA					1,430	<4.00	NA	6.2			
	4/15/2021	NA	136	0.255 J	0.711	0.683	115	NA					1,380	<4.00	NA	6.1			
	4/21/2021	NA	114	0.157 J	0.650	0.856	101	NA					1,340	<4.00	NA	6.1			
	4/28/2021	NA	155	0.178 J	0.692	0.511	118	NA					1,380	<4.00	NA	6.2			
	5/5/2021	NA	122	0.198 J	0.704	0.609	105	NA					1,350	<4.00	NA	6.3			
	5/13/2021	NA	104	0.199 J	0.686	1.02	98.3	NA					1,320	<4.00	NA	6.3			
	5/19/2021	NA	142	0.171 J	0.633	0.435	120	NA					1,370	<4.00	NA	6.2			
	5/27/2021	NA	147	0.206 J	0.689	0.889	120	NA					1,260	<4.00	NA	6.5			
	6/2/2021	NA	119	0.168 J	0.647	0.549	103	NA					1,250	<4.00	NA	6.2			
	6/10/2021	NA	151	0.252 J	0.714	2.77	123	NA					1,260	<4.00	NA	6.1			
	6/16/2021	NA	118	0.205 J	0.613	1.36	104	NA					1,208	<4.00	NA	6.5			
	6/22/2021	NA	122	0.171 J	0.593	0.969	105	NA					1,260	<4.00	NA	6.5			
	6/30/2021	NA	111	0.417 J	0.633	1.37	102	NA					1,230	<4.00	NA	6.4			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	110	0.257 J	0.543	0.713	98.2	NA					1,120	<4.00	NA	6.4			
	7/14/2021	NA	187	0.233 J	0.752	0.797	124	NA					1,350	<4.00	NA	6.4			
	7/20/2021	NA	123	0.132 J	0.460	0.659	107	NA					1,280	<4.00	NA	6.3			
	7/27/2021	NA	113	0.134 J	0.607	0.516 J	100	NA					1,250	<4.00	NA	6.4			
	8/5/2021	NA	120	0.189 J	0.660	0.552	103	NA					1,200	<4.00	NA	6.5			
	8/11/2021	NA	115	0.181 J	0.624	3.02	101	NA					1,300	<4.00	NA	6.3			
	8/19/2021	NA	122	0.104 J	0.630	1.73	104	NA					1,290	<4.00	NA	6.4			
	8/25/2021	NA	122	0.191 J	0.639	0.603	103	NA					1,270	<4.00	NA	6.5			
	9/2/2021	NA	110	<0.100	0.536	0.595	98.1	NA					1,320	<4.00	NA	6.4			
	9/8/2021	NA	105	<0.100	0.540	0.590	97.3	NA					1,280	<4.00	NA	6.4			
	9/14/2021	NA	124	<0.100	0.542	0.386	107	NA					1,270	<4.00	NA	6.4			
	9/21/2021	NA	90.5	0.426 J	0.638	1.04	89.1	NA					1,250	<4.00	NA	6.3			
	9/29/2021	NA	133	0.245 J	0.631	0.982	117	NA					1,300	<4.00	NA	6.4			
	10/7/2021	NA	108	0.201 J	0.581	0.564	96.6	NA					1,280	<4.00	NA	6.4			
	10/13/2021	NA	178	0.140 J	0.734	0.507	131	NA					1,320	<4.00	NA	6.5			
	10/21/2021	NA	102	0.133 J	0.635	0.787	93.3	NA					1,270	<4.00	NA	6.5			
	11/5/2021	NA	141	0.363 J	<0.0391	0.454	108	NA					1,250	<4.00	NA	6.6			
	11/11/2021	NA	115	<0.100	0.677	0.374	97.6	NA					1,240	<4.00	NA	6.5			
	11/18/2021	NA	103	<0.100	0.600	1.28	98.1	NA					1,140	<4.00	NA	6.6			
	11/24/2021	NA	163	<0.500	0.680	0.539	127	NA					1,500	<4.00	NA	6.3			
	12/1/2021	NA	120	0.148 J	0.604	0.511	103	NA					1,240	<4.00	NA	6.9			
	12/8/2021	NA	188	<0.100	0.759	0.684	123	NA					1,250	<4.00	NA	6.3			
	12/16/2021	NA	134	<0.100	0.529	<0.0293	113	NA					1,180	<4.00	NA	6.3			
	12/22/2021	NA	163	<0.100	0.670	0.462	122	NA					1,280	<4.00	NA	6.4			
	12/29/2021	NA	210	<0.100	1.02	0.415	115	NA					1,280	<4.00	NA	6.3			
	1/6/2022	NA	106	<0.100	0.559	0.746	97.5	NA					1,300	<4.00	NA	6.4			
	1/12/2022	NA	73.9	0.288 J	0.506	1.47	92.2	NA					1,150	<4.00	NA	6.2			
	1/19/2022	NA	120	<0.100	0.591	0.757	104	NA					1,290	<4.00	NA	6.1			
	1/26/2022	NA	120	<0.100	0.592	0.608	100	NA					1,270	<4.00	NA	6.1			
	2/2/2022		Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.																
	2/8/2022	NA	148	0.156 J	0.683	1.03	125	NA					1,290	<4.00	NA	6.1			
	2/16/2022	NA	186	0.409 J	0.809	0.338	113	NA					1,320	<4.00	NA	6.2			
	2/25/2022	NA	133	0.704	0.536	0.647	154	NA					1,280	<4.00	NA	6.3			
	3/3/2022	NA	126	<0.100	0.776	0.992	112	NA					1,360	<4.00	NA	6.1			
	3/9/2022	NA	167	<0.100	0.789	2.12	133	NA					1,330	<4.00	NA	6.2			
	3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																
	3/16/2022	NA	165	<0.100	0.890	1.47	135	NA					1,350	<4.00	NA	6.2			
	3/24/2022	NA	140	<0.100	<0.0391	0.389	120	NA					1,320	<4.00	NA	6.3			
3/31/2022	NA	150	<0.100	<0.0391	1.65	106	NA					1,340	<4.00	NA	6.3				
4/6/2022	NA	130	0.175 J	0.619	1.60	111	NA					1,360	<4.00	NA	6.2				
4/13/2022	NA	135	0.271 J	0.589	1.67	108	NA					1,380	<4.00	NA	6.5				
4/20/2022	NA	198	0.174 J	0.966	0.722	121	NA					1,330	<4.00	NA	6.4				
4/28/2022	NA	156	0.172 J	0.711	0.434	118	NA					1,380	<4.00	NA	6.4				
5/5/2022	NA	116	0.229 J	0.586	11.5	112	NA					1,330	<4.00	NA	6.3				
5/10/2022	NA	134	0.230 J	0.548	1.83	120	NA					1,320	<4.00	NA	6.3				
5/19/2022	NA	133	0.116 J	<0.0391	0.373	118	NA					1,380	<4.00	NA	6.2				
5/26/2022	NA	107	0.196 J	0.392	1.14	104	NA					1,320	<4.00	NA	6.0				
6/1/2022	NA	130	0.107 J	0.481	1.47	116	NA					1,340	<4.00	NA	6.3				
6/9/2022	NA	103	<0.100	0.330	0.236	103	NA					1,320	<4.00	NA	6.2				
6/17/2022	NA	99.0	0.213 J	0.395	0.702	102	NA					1,290	<4.00	NA	6.4				
6/23/2022	NA	109	<0.100	0.494	5.21	107	NA					1,270	<4.00	NA	6.3				
6/29/2022	NA	82.6	0.111 J	0.351	0.827	89.7	NA					1,330	<4.00	NA	6.2				
7/7/2022	NA	107	0.141 J	0.399	0.440	98.3	NA					1,300	<4.00	NA	6.4				
7/13/2022	NA	95.3	0.262 J	0.306	1.23	100	NA					1,280	<4.00	NA	6.2				
7/20/2022	NA	134	<0.100	0.485	1.46	122	NA					1,360	<4.00	NA	6.3				
7/27/2022	NA	101	<0.100	0.403	3.86	105	NA					1,340	<4.00	NA	6.4				
8/4/2022	NA	107	0.112 J	0.451	0.477	99.9	NA					1,250	<4.00	NA	6.2				
8/10/2022	NA	89.4	0.189 J	0.189	0.210	97.2	NA					1,260	<4.00	NA	6.3				
8/18/2022	NA	99.1	0.122 J	0.333	0.303	100	NA					1,280	<4.00	NA	6.3				
8/24/2022	NA	110	0.172 J	0.282	0.427	103	NA					1,290	<4.00	NA	6.3				



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	8/31/2022	NA	94.8	<0.100	0.175	0.238	94.4	NA					1,280	<4.00	NA	6.3
	9/15/2022	NA	94.4	0.538	0.232	2.31	98.7	NA					1,320	<4.00	NA	6.3
	9/22/2022	NA	94.4	0.260 J	0.650	0.481	105	NA					1,320	<4.00	NA	6.3
	9/28/2022	NA	91.2	0.498 J	0.261	<0.0293	92.5	NA					1,280	<4.00	NA	6.3
	10/4/2022	NA	88.9	0.143 J	0.497	0.189	97.0	NA					1,320	<4.00	NA	6.2
	10/14/2022	NA	82.6	0.101 J	<0.0391	0.0760 J	84.6	NA					1,320	<4.00	NA	6.2
	10/19/2022	NA	51.2	<0.100	0.101	<0.0293	48.5	NA					1,290	<4.00	NA	6.5
	10/27/2022	NA	124	0.165 J	0.319	0.871	104	NA					1,340	<4.00	NA	6.3
	11/2/2022	NA	91.1	0.148 J	0.221	0.947	92.9	NA					1,330	<4.00	NA	6.2
	11/9/2022	NA	97.8	0.161 J	0.273	0.366	101	NA					1,430	<4.00	NA	6.4
	11/16/2022	NA	86.0	0.180 J	0.206	0.579	91.4	NA					1,300	<4.00	NA	6.6
	11/30/2022	NA	90.4	0.133 J	0.264	0.168	91.1	NA					1,300	<4.00	NA	6.4
	12/9/2022	NA	78.0	0.158 J	0.217	0.785	82.5	NA					1,290	<4.00	NA	6.4
	12/15/2022	NA	100	0.120 J	0.331	1.64	91.2	NA					1,140	<4.00	NA	6.2
	12/21/2022	NA	94.8	0.212 J	0.252	1.16	99.5	NA					1,270	<4.00	NA	6.3
	12/29/2022	NA	124	0.114 J	0.527	0.338	95.6	NA					1,250	<4.00	NA	6.5
	1/4/2023	NA	92.6	0.126 J	0.318	1.23	88.2	NA					1,140	<4.00	NA	6.4
	1/13/2023	NA	72.6	0.112 J	0.227	0.381	81.1	NA					1,210	<4.00	NA	6.4
	1/19/2023	NA	96.5	0.135 J	0.185	0.320	96.7	NA					1,270	<4.00	NA	6.2
	1/25/2023	NA	83.2	0.133 J	0.128	0.416	87.9	NA					1,110	<4.00	NA	6.5
	2/2/2023	NA	80.8	<0.100	0.273	0.334	84.7	NA					1,180	<4.00	NA	6.2
	2/8/2023	NA	89.2	<0.100	0.180	0.392	92.3	NA					1,300	<4.00	NA	6.3
	2/17/2023	NA	89.9	0.226 J	0.194	0.178	96.2	NA					1,300	<4.00	NA	6.4
	2/22/2023	NA	98.9	0.113 J	0.606	0.162	70.9	NA					1,310	<4.00	NA	6.1
	3/3/2023	NA	130	<0.100	0.450	0.204	95.4	NA					1,200	<4.00	NA	6.2
	3/8/2023	NA	86.9	<0.100	0.139	0.239	94.5	NA					1,230	<4.00	NA	6.3
	3/15/2023	NA	89.8	<0.100	0.190	0.389	95.7	NA					1,190	<4.00	NA	6.2
	3/23/2023	NA	74.9	0.138 J	0.107	0.208	88.5	NA					1,250	<4.00	NA	6.3
	3/29/2023	NA	81.8	<0.100	0.150	0.975	90.9	NA					1,250	<4.00	NA	6.2
	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	
11/6/2023	NA	74.9	<0.100	0.323	1.31	23.8	NA					1,180	<4.00	NA	6.2	
11/16/2023	NA	62.5	<0.100	0.258	0.49	80.7	NA					1,300	<4.00	NA	6.2	
11/20/2023	NA	165	<0.100	0.848	1.06	95.2	NA					1,470	<4.00	NA	6.5	
11/27/2023	NA	77.6	0.213 J	0.270	1.58	88.0	NA					1,330	<4.00	NA	6.2	
12/8/2023	NA	136	0.139 J	0.542	0.521	105	NA					1,330	<4.00	NA	6.5	
12/11/2023	NA	77.6	<0.100	0.339	0.631	84.6	NA					1,300	<4.00	NA	6.3	
12/18/2023	NA	69.2	<0.100	0.242	0.376	78.9	NA					1,290	<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.							



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	2/8/2022	<0.495	95.7	<0.895	<0.895	<0.864	<0.895	20.8
	2/16/2022	<0.495	61.0	<0.877	<0.877	<0.846	<0.877	18.7
	2/25/2022	<0.495	54.2	<0.923	<0.923	<0.891	<0.923	20.0
	3/3/2022	<0.495	90.5	<0.935	<0.935	<0.902	<0.935	18.2
	3/9/2022	<0.495	40.7	<0.874	<0.874	<0.874	<0.874	18.1
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.						
	3/16/2022	<0.495	67.6	<0.959	<0.959	<0.959	<0.959	18.1
	3/24/2022	<0.495	37.5	<0.901	<0.901	<0.869	<0.901	18.9
	3/31/2022	<0.495	43.7	<0.926	<0.926	<0.894	<0.926	19.0
	4/6/2022	<0.495	41.6	<0.926	<0.926	<0.894	<0.926	18.1
	4/13/2022	<0.495	13.0	<0.918	<0.918	<0.886	<0.918	19.0
	4/20/2022	<0.495	72.4	<0.904	<0.904	<0.872	<0.904	18.3
	4/28/2022	<0.495	18.9	<0.890	<0.890	<0.859	<0.890	19.9
	5/5/2022	<0.495	31.8	<0.912	<0.912	<0.880	<0.912	19.5
	5/10/2022	1.20 J	31.5	<0.985	<0.985	<0.950	<0.985	16.7
	5/19/2022	0.600 J	41.5	<0.926	<0.926	<0.894	<0.926	20.3
	5/26/2022	1.00 J	32.2	<0.920	<0.920	<0.888	<0.920	18.0
	6/1/2022	0.800 J	19.0	<0.926	<0.926	<0.894	<0.926	20.5
	6/9/2022	0.600 J	24.6	<0.962	<0.962	<0.929	<0.962	20.3
	6/17/2022	<0.495	21.1	<0.918	<0.918	<0.886	<0.918	18.3
	6/23/2022	0.800 J	32.5	<0.932	<0.932	<0.900	<0.932	18.0
	6/29/2022	1.00 J	33.2	0.954 J	<0.923	<0.891	0.954 J	15.8
	7/7/2022	0.600 J	22.2	<0.947	<0.947	<0.914	<0.947	23.1
	7/13/2022	<0.495	31.9	<0.950	<0.950	<0.917	<0.950	20.6
	7/20/2022	<0.495	31.4	<0.959	<0.959	<0.926	<0.959	20.0
	7/27/2022	<0.495	10.6	<0.904	<0.904	<0.872	<0.904	17.6
	8/4/2022	0.800 J	31.9	<0.906	<0.906	<0.875	<0.906	19.2
	8/10/2022	1.00 J	35.0	<0.929	<0.929	<0.897	<0.929	19.8
	8/18/2022	<0.495	52.4	<1.04	<1.04	<1.00	<1.04	20.7
	8/24/2022	1.40 J	34.4	<4.78	<4.78	<4.78	<4.78	18.2
	8/31/2022	1.20 J	22.0	<0.932	<0.932	<0.900	<0.932	19.9
	9/15/2022	0.800 J	55.4	<0.988	<0.988	<0.954	<0.988	18.6
	9/22/2022	<0.495	28.0	<0.944	<0.944	<0.911	<0.944	21.0
	9/28/2022	1.20 J	28.5	<0.956	<0.956	<0.923	<0.956	17.9
	10/4/2022	0.800 J	34.2	<0.895	<0.895	<0.864	<0.895	17.8
	10/14/2022	1.20 J	26.6	<0.935	<0.935	<0.902	<0.935	18.7
	10/19/2022	<0.495	22.4	<0.981	<0.981	<0.947	<0.981	18.4
	10/27/2022	<0.495	22.0	<1.00	<1.00	<0.968	<1.00	25.0
	11/2/2022	<0.495	31.7	<0.972	<0.972	<0.938	<0.972	25.0
	11/9/2022	<0.495	33.0	<0.972	<0.972	<0.938	<0.972	21.4
	11/16/2022	<0.495	28.2	<1.00	<1.00	<0.970	<1.00	18.0
	11/30/2022	<0.495	30.0	<0.915	<0.915	<0.883	<0.915	18.5
	12/9/2022	<0.495	19.5	<1.00	<1.00	<0.970	<1.00	17.1
	12/15/2022	<0.495	43.9	<0.918	<0.918	<0.886	<0.918	15.7
	12/21/2022	<0.495	37.8	<0.890	<0.890	<0.859	<0.890	15.8
	12/29/2022	<0.495	64.9	<0.938	<0.938	<0.905	<0.938	16.7
	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



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	5/11/2023	<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
	11/6/2023	<0.0400	245	<0.938	<0.938	<0.905	<0.938	18.3
	11/16/2023	<0.0400	8.85	<0.991	<0.991	<0.957	<0.991	17.4
	11/20/2023	<0.0400	10.8	<0.991	<0.991	<0.957	<0.991	13.3
	11/27/2023	<0.0400	226	<1.03	<1.03	<0.993	<1.03	17.1
	12/8/2023	<0.0400	187	<0.880	<0.880	<0.849	<0.880	22.1
	12/11/2023	<0.0400	297	<0.988	<0.988	<0.954	<0.988	20.6
	12/18/2023	<0.0400	291	0.956 J	<0.923	<0.891	0.956 J	20.5



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	



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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	2/16/2022	<0.495	1,670	0.974 J	<0.864	<0.834	0.974 J	18.3
	2/25/2022	<0.495	1,280	1.43 J	<0.965	<0.932	1.43 J	19.9
	3/3/2022	<0.495	2,160	1.86 J	<0.909	<0.877	1.86 J	18.1
	3/9/2022	<0.495	1,680	1.77 J	<0.947	<0.914	1.77 J	18.4
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.						
	3/16/2022	<0.495	1,700	2.22 J	<0.915	<0.883	2.22 J	18.1
	3/24/2022	<0.495	1,330	1.29 J	<0.909	<0.877	1.29 J	19.1
	3/31/2022	<0.495	1,340	1.28 J	<0.938	<0.905	1.28 J	19.0
	4/6/2022	<0.495	1,720	1.00 J	<0.938	<0.905	1.00 J	18.1
	4/13/2022	<0.495	874	0.915 J	<0.906	<0.875	0.915 J	19.0
	4/20/2022	<0.495	1,060	1.06 J	<0.901	<0.869	1.06 J	18.6
	4/28/2022	<0.495	1,100	1.76 J	<0.915	<0.883	1.76 J	19.8
	5/5/2022	0.600 J	1,330	1.40 J	<0.920	<0.888	1.40 J	19.2
	5/10/2022	<0.495	1,320	1.63 J	<0.965	<0.932	1.63 J	16.8
	5/19/2022	<0.495	1,740	1.80 J	<0.915	<0.883	1.80 J	20.5
	5/26/2022	<0.495	2,650	1.02 J	<0.950	<0.917	1.02 J	18.1
	6/1/2022	<0.495	1,340	1.43 J	<0.909	<0.877	1.43 J	20.5
	6/9/2022	<0.495	1,080	1.23 J	<0.938	<0.905	1.23 J	19.8
	6/17/2022	<0.495	894	1.49 J	<0.895	<0.864	1.49 J	17.8
	6/23/2022	<0.495	1,270	1.25 J	<0.920	<0.888	1.25 J	18.0
	6/29/2022	<0.495	1,680	<0.935	<0.935	<0.902	<0.935	15.9
	7/7/2022	<0.495	1,190	0.912 J	<0.906	<0.875	0.912 J	23.0
	7/13/2022	<0.495	1,610	1.17 J	<0.947	<0.914	1.17 J	20.1
	7/20/2022	<0.495	1,360	1.07 J	<0.981	<0.947	1.07 J	19.8
	7/27/2022	<0.495	1,070	1.49 J	<0.975	<0.941	1.49 J	18.2
	8/4/2022	<0.495	1,570	1.31 J	<0.904	<0.872	1.31 J	19.2
	8/10/2022	<0.495	1,260	1.17 J	<0.932	<0.900	1.17 J	19.3
	8/18/2022	<0.495	1,280	1.43 J	7.62	<0.897	9.05	21.3
	8/24/2022	<5.00	1,300	1.18 J	<4.63	<4.63	1.18 J	18.0
	8/31/2022	1.00 J	1,290	1.08 J	<0.950	<0.917	1.08 J	20.0
	9/15/2022	<0.495	1,320	1.83 J	<1.07	<1.04	1.83 J	18.9
	9/22/2022	<0.495	1,320	1.56 J	<1.05	<1.01	1.56 J	20.9
	9/28/2022	<0.495	1,280	1.06 J	<1.05	<1.01	1.06 J	18.6
	10/4/2022	<0.495	1,670	1.11 J	<0.904	<0.872	1.11 J	17.6
	10/14/2022	<0.989	1,670	1.12 J	<0.915	<0.883	1.12 J	18.1
	10/19/2022	<0.495	814	1.46 J	<0.877	<0.846	1.46 J	18.3
	10/27/2022	<0.495	1,350	<0.988	<0.988	<0.954	<0.988	25.0
	11/2/2022	<0.495	1,680	1.82 J	<0.978	<0.944	1.82 J	25.0
	11/9/2022	<4.95	1,220	1.14 J	<0.978	<0.944	1.14 J	21.2
	11/16/2022	<0.495	653	2.20 J	<0.909	<0.877	2.20 J	18.0
	11/30/2022	<0.495	1,030	<0.959	<0.959	<0.926	<0.959	18.7
	12/9/2022	<0.495	1,030	1.38 J	<0.969	<0.935	1.38 J	17.3
	12/15/2022	<0.495	1,440	1.71 J	<0.988	<0.954	1.71 J	15.3
	12/21/2022	<0.495	1,280	1.11 J	<0.904	<0.872	1.11 J	16.3
	12/29/2022	<0.495	789	<0.923	<0.923	<0.891	<0.923	17.3
	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	



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South Hobbs G/SA Unit
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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	6/15/2023	<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
	11/6/2023	<0.0400	1,490	1.28 J	<0.920	<0.888	1.28 J	18.7
	11/16/2023	<0.0400	12.7	<0.972	<0.972	<0.938	<0.972	17.6
	11/20/2023	<0.0400	11.5	2.01 J	<0.995	<0.960	2.01 J	13.2
	11/27/2023	<0.0400	1,680	1.44 J	<0.995	<0.960	1.44 J	17.6
	12/8/2023	<0.0400	842	<0.926	<0.926	<0.894	<0.926	22.0
	12/11/2023	<0.0400	1,310	1.08 J	<0.965	<0.932	1.08 J	20.9
	12/18/2023	<0.0400	1,290	<0.972	<0.972	<0.938	<0.972	20.7

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

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

Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/25/2021	0823	229	<6.39	<7.76	9.52	<4.13	<10.3	575	<8.10	<7.93	324	<8.67	<9.82	<11.2	<17.0	299	980	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	22.2	<9.82	<9.82	<7.04	<17.3	<8.67	17,500
	1/25/2021	1213	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	2.01	<0.810	<0.793	4.98	<0.867	<0.982	<1.12	<1.70	1.44	3.20	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.36	1.14	1.29	<0.704	<1.73	<0.867	<826
	1/28/2021	1316	14,800	<0.639	2.96	246	22.5	42.5	1,770	<0.810	<0.793	2,410	53.8	298	<1.12	2.03	1,220	2,890	150	<0.694	101	2,340	53.2	<0.819	<33.0	438	<0.851	72.6	<0.590	95.7	<1.09	<1.07	445	375	<0.704	246	147	61,100
	2/10/2021	1300	1,140	<12.8	<15.5	181	<8.26	<20.6	10,800	<16.2	<15.9	<23.8	44.2	426	<22.5	<19.8	4,040	14,000	92.4	<13.9	<102	79.0	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	66.3	<21.8	<21.4	334	584	<14.1	361	218	315,000
	2/24/2021	1045	<2.97	<0.639	<0.776	161	<0.413	<1.03	4,510	<0.810	9.83	<1.19	88.4	491	<1.12	<0.989	2,200	5,610	249	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	5.47	<0.590	101	<1.09	1.14	218	305	<0.704	633	388	114,000
	3/4/2021	1402	375	<3.19	<3.88	67.9	<2.07	<5.15	2,620	<4.05	<3.96	88.6	56.4	<4.91	<5.62	<4.95	847	4,690	176	<3.47	<25.6	72.0	<25.6	<4.09	22.8	<15.4	<4.25	<6.79	<2.95	49.3	<5.44	<5.36	1,460	913	<3.52	533	198	83,400
	3/10/2021	1050	<2.97	<0.639	<0.776	71.0	<0.413	<1.03	3,300	<0.810	<0.793	<1.19	61.1	1,070	1.26	<0.989	990	4,120	205	<0.694	<5.11	54.8	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	55.4	<1.09	<1.07	947	825	<0.704	516	249	120,000
	3/17/2021	1135	806	<0.639	<0.776	95.6	<0.413	<1.03	3,160	<0.810	<0.793	50.2	63.3	444	1.38	<0.989	1,240	4,550	128	<0.694	<5.11	139	<5.12	<0.819	<3.30	46.5	<0.851	<1.36	<0.590	101	<1.09	<1.07	332	313	<0.704	432	179	88,800
	3/25/2021	1111	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	11,700	<0.810	<0.793	41.3	65.9	<0.982	<1.12	<0.989	2,500	12,800	157	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	67.4	<1.09	<1.07	424	359	<0.704	382	205	256,000
	3/31/2021	1055	1,880	<0.639	<0.776	<0.622	<0.413	<1.03	22,300	<0.810	<0.793	96.3	78.0	185	<1.12	<0.982	4,420	24,000	150	<0.694	<5.11	244	<5.12	<0.819	<3.30	<3.07	<0.851	17.5	<0.590	73.1	9.57	<1.07	292	265	<0.704	352	193	305,000
	4/8/2021	1205	2,350	843	<311	<249	<165	<412	30,500	<324	<317	2,830	<347	736	<450	<396	<327	64,500	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	1,470	<340	<543	<236	<753	<435	<429	453	420	<282	737	<347	574,000
	4/15/2021	1228	1,200	<12.8	<15.5	97.7	<8.26	<20.6	41,000	<16.2	<15.9	98.0	91.9	447	<22.5	<19.8	4,950	98,000	134	<13.9	<102	206	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	101	<21.8	<21.4	197	198	<14.1	620	190	438,000
	4/21/2021	1340	639	<0.639	<0.776	<0.622	<0.413	<1.03	2,390	<0.810	<0.793	234	72.4	309	<1.12	<0.989	969	5,710	166	<0.694	<5.11	280	<5.12	<0.819	<3.30	127	<0.851	<1.36	<0.590	48.2	<1.09	<1.07	216	447	<0.704	296	225	<826
	4/28/2021	1215	1,210	<12.8	<15.5	134	<8.26	<20.6	6,650	<16.2	<15.9	343	129	1,540	<22.5	<19.8	<16.4	13,200	264	<13.9	<102	229	<102	<16.4	<66.0	143	<17.0	<27.2	<11.8	95.3	<21.8	<21.4	1,050	761	<14.1	954	313	261,000
	5/5/2021	1235	371	<12.5	<15.5	12.6	<8.26	<20.6	844	<16.2	<15.9	326	27.2	88.3	<22.5	<19.8	326	1,120	58.0	<13.9	<102	93.8	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	179	142	<14.1	185	65.0	273,000
	5/13/2021	1320	1,220	<12.8	<15.5	39.8	<8.26	<20.6	6,130	29.9	<15.9	456	88.4	545	<22.5	<19.8	2,300	7,300	228	<13.9	<102	226	<102	<16.4	<66.0	219	<17.0	<27.2	<11.8	62.5	<21.8	<21.4	1,230	756	<14.1	668	251	205,000
	5/19/2021	1445	1,700	<1.28	<1.55	<1.24	<0.826	<2.06	6,680	<1.62	<1.59	226	76.7	306	<2.25	<1.98	2,010	12,300	179	<1.39	122	200	<10.2	<1.64	<6.60	205	<1.70	<2.72	<1.18	50.5	<2.18	3.46	520	550	<1.41	577	195	175,000
	5/27/2021	1245	380	0.664	<0.776	<0.622	1.57	<1.03	1.14	<0.810	<0.793	6,130	3.68	7.07	1.51	2.64	9.98	157	<0.983	13.5	13.5	115	263	<0.819	<3.30	976	301	<1.36	149	86.3	<1.09	<1.07	15.4	4.37	<0.704	12.1	3.70	17,900
	6/2/2021	1220	1,280	<12.8	<15.5	<12.4	<8.26	<20.6	5,480	<16.2	<15.9	317	78.5	241	<22.5	<19.8	1,500	6,840	162	<13.9	<102	188	<102	<16.4	<66.0	125	<17.0	<27.2	<11.8	47.1	<21.8	<21.4	555	356	<14.1	542	174	179,000
	6/10/2021	1150	3,470	<12.8	<15.5	106	<8.26	<20.6	2,260	<16.2	<15.9	722	21.6	169	<22.5	<19.8	507	3,020	48.1	<13.9	<102	295	<102	<16.4	<66.0	234	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	89.3	73.1	<14.1	127	49.4	95,800

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

Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	12/8/2021	1337	<238	69.0	<62.1	<49.8	<33.0	<82.5	19,300	<64.8	<63.4	997	126	121	<89.9	<79.1	36,000	136,000	<78.7	76.0	<409	1,510	<409	<65.5	<264	5,900	<68.1	<109	<47.2	298	<87.0	<85.7	162	226	<56.3	157	102	657,000
	12/17/2021	1210	5,370	<128	<155	<124	<82.6	<206	298,000	<162	<159	960	<173	<196	<225	<198	442,000	2,980,000	<197	<139	<1,020	2,170	<1,020	<164	<660	4,920	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	7,640,000
	12/20/2021	0929	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	379,000	<8,100	<7,930	50,300	<8,670	<9,820	<11,200	<9,890	532,000	3,380,000	<9,830	<6,940	<51,100	<36,900	<51,200	<8,190	<33,000	196,000	<8,510	<13,600	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	14,000,000
		0953	Initiate Vacuum Recovery Event																																			
		1129	1,190	<31.9	<38.8	<31.1	<20.7	<51.5	10,400	<40.5	<39.6	581	92.3	<49.1	<56.2	<49.5	20,200	80,400	<49.2	<34.7	<256	286	<256	<40.9	<165	3,860	<42.5	<67.9	<29.5	122	<54.4	<53.6	113	99.6	<35.2	132	55.9	392,000
		1145	Vacuum Recovery Event Terminated																																			
		1305	727	<12.8	<15.5	<12.4	<8.26	<20.6	3,930	<16.2	<15.9	<47.1	54.2	47.6	<22.5	<19.8	2,520	5,180	25.6	<13.9	<102	122	<102	<16.4	<66.0	676	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	129	103	<14.1	85.8	40.8	188,000
	12/22/2021	1130	848	<12.8	<15.5	<12.4	<8.26	<20.6	<13.8	<16.2	<15.9	<47.1	41.9	147	<22.5	<19.8	7,030	42,000	39.7	<13.9	<102	<73.7	<102	<16.4	<66.0	649	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	152	92.3	<14.1	111	58.5	247,000
	12/29/2021	1215	<297	<6.39	<77.6	<62.2	<41.3	<10.3	503	<8.10	<79.3	1,490	21.9	44.1	<112	<98.9	630	5,780	37.2	<69.4	<51.1	<369	<51.2	<8.19	<33.0	1,110	<8.51	<13.6	<59.0	<18.8	<109	<10.7	112	63.3	<70.4	75.4	31.6	<8,260
	1/3/2022	0756	<297	<63.9	<77.6	<62.2	<41.3	<103	108,000	<81.0	<79.3	1,200	<86.7	<98.2	<112	<98.9	234,000	606,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	6,610	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,020,000
		0759	Initiate Vacuum Recovery Event																																			
		0823	<59.4	<12.8	<15.5	<12.4	407	<20.6	3,960	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	12,800	28,200	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	62.9	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	177,000
		0904	<14.9	<3.19	<3.88	<3.11	<2.07	<5.15	2,240	<4.05	<3.96	<11.8	<4.34	<4.91	<5.62	<4.95	6,130	17,800	<4.92	<3.47	<25.6	<18.4	<25.6	<4.09	<16.5	19.3	<4.25	<6.79	<2.95	<9.42	<5.44	<5.36	8.25	5.64	<3.52	<8.67	<4.34	101,000
		0920	Vacuum Recovery Event Terminated																																			
		1031	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,580	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	5,690	15,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	87.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	22.7	<19.6	<14.1	<34.7	<17.3	188,000
	1/6/2022	0000	<297	<63.9	<77.6	<62.2	<41.3	<103	10,600	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	20,500	130,000	<98.3	110	<511	<369	<512	<81.9	<330	4,230	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	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																																			
		1134	466	<0.639	<0.776	<0.622	1.64	<1.03	2,400	<0.810	<0.793	16.8	5.42	9.67	1.38	2.14	4,620	10,800	5.26	<0.694	<5.11	54.3	<5.12	<0.819	3.42	494	<0.851	27.5	<0.590	23.8	<1.09	<1.07	20.8	18.7	<0.704	17.7	7.46	95,400
	1/19/2022	1208	454	<31.9	<38.8	<31.1	<20.7	<51.5	11,300	<40.5	<39.6	149	<43.4	94.2	<56.2	<49.5	28,800	171,000	<49.2	<34.7	<256	<184	<256	966	<165	3,740	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	81.0	221	<35.2	<86.7	<43.4	508,000
	1/26/2022	1251	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	28,900	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	22,900	313,000	<22.5	<13.9	<102	<73.7	<102	<16.4	<66.0	248	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	1,180,000
	2/2/2022	0921	4,040	5,940	<155	<124	<82.6	<206	229,000	<162	<159	<471	195	<196	<225	<198	217,000	8,710,000	<197	<139	<1020	1,360	<1,020	<164	<660	10,800	<170	<272	<118	1,220	<218	<214	<196	<196	<141	481	<173	3,620,000
		0922	Initiate Vacuum Recovery Event																																			
		0950	337	415	<15.5	<12.4	<8.26	<20.6	16,700	<16.2	<15.9	<47.1	147	<19.6	<22.5	<19.8	36,200	114,000	<19.7	<13.9	<102	231	<102	<16.4	<66.0	88.2	<17.0	<27.2	<11.8	313	<21.8	<21.4	27.0	<19.6	<14.1	370	108	409,000
		1030	56.8	29.9	<0.776	<0.622	<0.413	<1.03	2,280	<0.810	<0.793	10.5	25.2	<0.982	<1.12	2.47	5,440	9,380	2.05	<0.694	<5.11	34.5	<5.12	<0.819	<3.30	30.2	<0.851	<1.36	<0.590	46.3	<1.09	<1.07	9.18	6.58	<0.704	62.9	17.6	71,500
		1047	Vacuum Recovery Event Terminated																																			
	1158	80.8	29.7	<0.776	<0.622	<0.413	<1.03	2,750	<0.810	<0.793	4.13	19.1	<0.982	<1.12	2.58	5,850	8,670	1.82	<0.694	<5.11	36.9	<5.12	<0.819	<3.30	43.0	<0.851	<1.36	<0.590	38.8	<1.09	<1.07	7.80	5.35	<0.704	46.8	13.0	59,500	
	2/8/2022	1200	88.6	<0.639	<0.776	<0.622	<0.413	<1.03	1,310	<0.810	<0.793	<2.36	27.2	<0.982	<1.12	<0.989	2,640	13,700	14.5	<0.694	<5.11	15.5	<5.12	<0.819	3.64	76.2	<0.851	3.38	<0.590	12.3	<1.09	<1.07	43.8	46.5	<0.704	91.9	39.4	83,000
	2/16/2022	1224	215	<12.8	<15.5	<12.4	<8.26	<20.6	37,500	<16.2	<15.9	<47.1	<17.3	22.1	<22.5	<																						



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	3/30/2022	0907	47.5	<0.639	<1.34	<0.622	<0.413	<1.03	143	<0.810	<0.793	43.9	3.37	<0.982	1.26	2.44	154	320	<0.983	<0.694	<5.11	14.4	<5.12	<0.819	<3.30	33.9	<0.851	3.71	<0.590	52.0	<1.09	<1.07	2.56	1.27	7.11	8.02	3.97	4,040
		0959	Initiate Vacuum Recovery Event																																			
		1021	88.9	<0.639	<1.34	<0.622	<0.413	<1.03	668	<0.810	<0.793	5.92	2.17	<0.982	<1.12	<0.989	937	4,160	1.78	<0.694	<5.11	7.93	<5.12	<0.819	<3.30	19.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	13.3	8.79	<0.704	5.33	3.29	27,600
		1101	24.5	<0.639	<1.34	<0.622	<0.413	<1.03	175	1.17	<0.793	12.3	1.19	<0.982	1.23	2.39	223	585	<0.983	<0.694	<5.11	7.73	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	4.78	<1.09	<1.07	5.01	3.43	8.70	2.87	1.84	6,240
		1117	Vacuum Recovery Event Terminated																																			
	3/31/2022	1217	535	<0.639	<1.34	28.9	<0.413	<1.03	2,180	<0.810	<0.793	69.0	8.02	8.44	<1.12	2.30	1,980	12,400	<0.983	<0.694	<5.11	152	<5.12	<0.819	<3.30	391	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	11.8	9.52	<0.704	13.2	6.89	67,700
	4/6/2022	1241	128	4.44	<1.34	3.21	<0.413	<1.03	420	<0.810	<0.793	31.7	2.90	5.20	1.26	<0.989	383	1,850	3.07	<0.694	<5.11	17.8	<5.12	<0.819	<3.30	85.5	<0.851	<1.36	<0.590	14.7	<1.09	<1.07	16.5	9.82	<0.704	8.32	3.75	12,900
		1157	<1,490	<319	<388	<311	<207	<515	32,400	<405	<396	1,290	<434	<491	<562	<495	37,200	370,000	<492	<347	<2,560	<1,840	<2,560	11,300	<1,650	12,100	<425	<679	<295	<942	<544	<536	<491	<491	<352	<867	<434	1,430,000
	4/11/2022	0924	<238	<51.1	<62.1	<49.8	<33.0	<82.5	39,600	<64.8	<63.4	1,510	<69.4	<78.5	<89.9	<79.1	37,400	483,000	<78.7	<55.6	<409	<295	<409	<65.5	<264	6,860	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	1,460,000
		0925	Initiate Vacuum Recovery Event																																			
		0949	52.3	<0.639	<0.776	1.09	<0.413	<1.03	3,190	<0.810	<0.793	7.99	2.12	<0.982	1.16	1.41	6,220	2,430	1.10	<0.694	<5.11	37.7	<5.12	<0.819	<3.30	27.5	<0.851	<1.36	<0.590	5.61	<1.09	<1.07	5.64	6.43	<0.704	4.47	2.90	140,000
		1030	41.1	<0.639	<0.776	<0.622	<0.413	<1.03	188	<0.810	<0.793	23.9	1.35	<0.982	1.40	1.73	366	1,280	<0.983	<0.694	<5.11	14.3	<5.12	<0.819	<3.30	24.5	<0.851	<1.36	<0.590	16.5	<1.09	<1.07	3.30	3.64	<0.704	3.52	1.94	9,010
		1045	Vacuum Recovery Event Terminated																																			
		1155	183	<0.639	2.01	7.03	<0.413	<1.03	706	<0.810	<0.793	14.6	1.48	<0.982	1.24	1.46	928	10,500	1.03	<0.694	<5.11	42.5	5.32	<0.819	<3.30	139	<0.851	<1.36	<0.590	18.7	<1.09	<1.07	5.10	3.73	<0.704	4.51	1.99	31,300
	4/20/2022	1157	<238	<51.1	<62.1	<49.8	<33.0	<82.5	16,000	<64.8	<63.4	956	<69.4	<78.5	<89.9	<79.1	27,000	144,000	<78.7	<55.6	<409	<295	<409	2,400	<264	5,850	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	93.3	<56.3	<139	<69.4	735,000
	4/25/2022	0805	<1,190	<256	<311	<249	<165	<412	465,000	<324	<317	3,680	<347	<393	<450	<396	638,000	5,390,000	<393	<278	<2,040	12,300	<2,050	<328	<1,320	23,300	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	7,720,000
		0810	Initiate Vacuum Recovery Event																																			
		0833	179	<12.8	<15.5	<12.4	<8.26	<20.6	2,680	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	6,180	15,800	<19.7	<13.9	<102	161	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	23.9	<14.1	<34.7	<17.3	138,000
		0912	32.6	<1.28	<1.55	<1.24	<0.826	<2.06	413	<1.62	<1.59	8.48	2.79	<1.96	<2.25	2.54	1,470	3,400	<1.97	<1.39	<10.2	31.6	<10.2	<1.64	<6.60	11.5	<1.70	<2.72	<1.18	<3.77	<2.18	<2.14	12.2	23.1	<1.41	5.38	4.38	22,600
		0928	Vacuum Recovery Event Terminated																																			
		1033	<1,190	1,660	<311	<249	<165	<412	23,800	<324	<317	2,960	4,860	3,510	<450	<396	42,900	103,000	860	<278	<2,040	<1,470	<2,050	<328	<1,320	16,300	<340	<543	<236	14,500	<435	<429	2,730	1,110	<282	7,370	2,750	1,060,000
	4/28/2022	1152	544	<0.639	<0.776	<0.622	<0.413	<1.03	112	<0.810	<0.793	100	23.5	<0.982	<1.12	<0.989	148	1,100	7.57	<0.694	<5.11	25.7	8.31	<0.819	<3.30	106	<0.851	<1.36	<0.590	113	<1.09	<1.07	26.6	17.2	<0.704	47.3	20.8	22,600
	5/5/2022	1454	<1,190	<256	<311	<249	<165	<412	30,500	<324	<317	<943	<347	<393	<450	<396	47,000	673,000	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	8,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	1,430,000
	5/9/2022	0958	<1,190	<256	<311	<249	<165	<412	49,200	<324	<317	2,660	<347	<393	<450	<396	66,300	850,000	<393	<278	<2,040	3,480	<2,050	<328	<1,320	26,100	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,380,000
		1000	Initiate Vacuum Recovery Event																																			
		1020	333	<0.639	<0.776	1.34	1.81	<1.03	995	<0.810	<0.793	42.4	4.07	17.1	<1.12	1.20	2,530	8,780	<0.983	<0.694	<5.11	203	<5.12	<0.819	5.09	76.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.9	20.8	<0.704	7.02	5.94	54,100
		1057	90.8	<0.639	<0.776	<0.622	2.85	<1.03	159	<0.810	<0.793	13.3	<0.867	1.08	1.31	1.81	385	1,040	<0.983	<0.694	<5.11	33.6	<5.12	<0.819	<3.30	13.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	1.54	2.56	<0.704	<1.73	1.03	8,220
		1105	Vacuum Recovery Event Terminated																																			
	5/19/2022	1218	130	1.41	6.83	31.0	15.5	<1.03	3,090	<0.810	<0.793	32.2	3.73	7.02	<1.12	<0.989	6,260	4,830	1.60	<0.694	<5.11	193	<5.12	<0.819	<3.30	403	<0.851	<1.36	<0.590	6.37	<1.09	<1.07	8.59	15.2	<0.704	5.64	5.03	124,000
		1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	104,000	<64.8	<63.4	1,070	<69.4	<78.5	<89.9	<79.1	183,000	1,340,000	<78.7	105	<409	<295	<409	<65.5	<264	4,130	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	4,750,000
5/23/2022	1015	12,100	<51.1	<62.1	<49.8	<33.0	<82.5	558,000	<96.2	<63.4	<189	<69.4	633	<89.9	<79.1	912,000	8,140,000	<78.7	<55.6	<409	14,100	<409	<65.5	<264	7,740	<68.1	<109	<47.2	<151	<87.0	<85.7	376	854	<56.3	<139	<69.4	27,600,000	
	1017	Initiate Vacuum Recovery Event																																				
	1100	<238	<51.1	<62.1	<49.8	<33.0	<82.5	13,400	<64.8	<63.4	549	<69.4	158	<89.9	<79.1	70,800	263,000	<78.7	<55.6	<409	1,090	<409	<65.5	<264	7,450	<68.1	<109	<47.2	<151	<87.0	<85.7	86.9	215	<56.3	<139	<69.4	702,000	
	1200	927	<12.8	<15.5	<12.4	<10.6	<20.6	6,410	<16.2	<15.9	196	<17.3	185	<22.5	<19.8	15,200	50,400	<19.7	<13.9	<102	590	<102	<16.4	<66.0	263	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	121	271	<14.1	<34.7	<17.3	450,000	
	1215	Vacuum Recovery Event Terminated																																				
	1355	4,350	<51.1	<62.1	<49.8	88.6	<82.5	16,300	<64.8	<63.4	562	<69.4	146	<89.9	<79.1	47,000	154,000	<78.7	<55.6	<409	1,580	<409	<65.5	<264	7,520	<68.1	<109	<47.2										

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-Buanone (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	7/18/2022	1135	22,000	<256	<311	<249	<165	<412	995,000	<324	<317	<943	<347	479	<450	<396	1,020,000	12,300,000	<393	<278	<2,040	19,200	<2,050	<328	<1,320	13,900	<340	<543	<236	<753	<435	<429	<393	667	<282	<694	<347	46,700,000
		1224	Initiate Vacuum Recovery Event																																			
		1355	356	693	<15.5	14.8	<8.26	<20.6	4,370	<16.2	<15.9	<47.1	806	135	<22.5	<19.8	3,930	24,000	52.1	<13.9	<102	363	<102	<16.4	<66.0	131	<17.0	<27.2	<11.8	2,230	<21.8	<21.4	153	161	<14.1	494	170	258,000
		1435	Vacuum Recovery Event Terminated																																			
		1625	342	<12.8	<15.5	15.1	<8.26	<20.6	2,520	<16.2	<15.9	<47.1	35.8	27.3	<22.5	<19.8	4,620	18,600	<19.7	<13.9	<102	229	<102	<16.4	<66.0	418	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	52.0	57.9	<14.1	<34.7	19.0	131,000
	7/20/2022	1335	13,600	<1,280	<1,550	<1,240	<826	<2,060	82,700	<1,620	<1,590	4,750	<1,730	<1,960	<2,250	<1,980	107,000	610,000	<1,970	<1,390	<10,200	<7,370	<10,200	<1,640	<6,600	43,500	<1,700	3,900	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	<1,410	<3,470	<1,730	3,630,000
	7/27/2022	1238	<297	<63.9	<77.6	<62.2	<41.3	<103	6,370	<81.0	<79.3	245	<86.7	<98.2	<112	<98.9	11,800	1,610,000	<98.3	<69.4	<511	422	<512	<81.9	<630	2,930	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	339,000
	8/1/2022	1113	13,100	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	3,510	<86.7	241.0	<112	<98.9	299,000	1,910,000	<98.3	<69.4	<511	9,580	<512	<81.9	<330	52,100	<85.1	1,470	<59.0	<188	<109	361	350	530	<70.4	<173	186	<8,260,000
		1115	Initiate Vacuum Recovery Event																																			
		1220	67.5	<0.639	<0.776	2.36	1.63	<1.03	<0.689	<0.810	<0.793	97.7	3.77	2.36	<1.12	1.95	321	892	<0.983	16.9	<5.11	27.9	12.0	<0.819	<3.30	58.0	<0.851	<1.36	<0.590	40.7	<1.09	<1.07	4.31	5.45	<0.704	9.67	5.07	9,210
		1328	525	<0.639	0.877	10.1	3.51	<1.03	<0.689	<0.810	<0.793	37.0	3.20	4.29	<1.12	1.97	265	1,210	1.41	<0.694	164	548	84.7	<0.819	<3.30	237	<0.851	<1.36	<0.590	3.56	<1.09	<1.07	8.44	8.64	<0.704	5.16	2.92	12,200
		1330	Vacuum Recovery Event Terminated																																			
	1435	5,110	<12.8	<15.5	140	36.4	<20.6	<13.8	<16.2	<15.9	215	<17.3	105	<22.5	<19.8	15,000	39,100	<19.7	<13.9	1,020	3,800	540	<16.4	<66.0	2,530	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	163	227	<14.1				

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

Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	11/16/2022	1335	34,900	<639	<776	<622	<413	<1,030	<689	<810	<793	35,600	<867	<982	<1,120	<989	267,000	3,840,000	<983	<694	<5,110	19,500	<5,120	<819	<3,300	35,200	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	12,800,000
	11/21/2022	1115	65,800	<639	<776	<622	<413	<1,030	<689	<810	<793	16,900	<867	<982	<1,120	<989	642,000	10,900,000	<983	<694	<5,110	33,000	<5,120	<819	<3,300	35,400	<851	1,620	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	38,900,000
	11/30/2022	1316	<297	<63.9	<77.6	<62.2	<41.3	<103	458,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	757,000	6,200,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	<307	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	27,200,000
	12/5/2022	1207	<297	<63.9	<77.6	<62.2	<41.3	<103	1,020	<81.0	<79.3	5,620	1,210	393	<112	<98.10	3,390	8,850	135	434	<511	448	<512	<81.9	<330	17,500	<85.1	<136	<59.0	403	<109	139	1,110	351	<70.4	2,290	295	116,000
		1209	Initiate Vacuum Recovery Event																																			
		1327	<297	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	5,390	551	346	<112	<98.9	1,420	4,940	<98.3	361	<511	<369	<512	<81.9	<330	15,900	<85.1	<136	<59.0	256	<109	191	613	177	<70.4	1,110	157	<82,600
		1427	<297	<62.6	<77.6	<62.2	<41.3	<103	4,480	<81.0	<79.3	6,300	<1,730	21,300	<112	<98.9	4,130	166,000	6,000	<69.4	<511	<369	<512	<81.9	<330	12,800	<85.1	<136	<59.0	<9,420	<109	<107	25,000	8,640	<70.4	<8,670	15,500	<4,130,000
		1427	Vacuum Recovery Event Terminated																																			
		1527	<297	<63.9	<77.6	<62.2	<41.3	<103	6,990	<81.0	<79.3	6,180	352	144	<112	<98.9	17,900	64,200	<98.3	<69.4	<511	858	<512	<81.9	<330	23,200	<85.1	<136	<59.0	<188	<109	<107	409	139	<70.4	720	114	421,000
	12/9/2022	1241	<2,970	<639	<776	<622	<413	<1,030	162,000	<810	<793	9,370	<867	<982	<1,112	<989	265,000	3,110,000	<983	<694	<5,110	7,110	<5,120	<819	<3,300	19,100	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	7,640,000
	12/15/2022	1228	20,600	<1,280	<1,550	<1,240	<826	<2,060	321,000	<1,620	<1,590	7,960	<1,730	<1,960	<2,250	<1,980	634,000	4,790,000	<1,970	<1,390	<10,200	12,200	<10,200	<1,640	<6,600	13,900	<1,700	<2,720	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	<1,410	<3,470	<1,730	16,300,000
	12/19/2022	1141	<1,490	<319	<388	<311	<207	<515	158,000	<405	<396	6,390	<434	<491	<562	<495	305,000	2,420,000	<492	941	<2,560	10,200	<2,560	<409	<1,650	7,010	<425	<679	<295	<942	<544	<536	<491	<491	<352	<867	<434	8,880,000
		1143	Initiate Vacuum Recovery Event																																			
		1538	105	<12.8	<15.5	<12.4	<8.26	<20.6	1,210	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	3,310	7,510	<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	75,200
		1638	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	596	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	1,170	3,910	<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	34,000
		1638	Vacuum Recovery Event Terminated																																			
		1738	<59.4	<12.8	<15.5	<12.4	29.9	<20.6	3,550	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	6,130	21,200	<19.7	<13.9	<102	105	<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	138,000
	12/21/2022	1318	<297	<63.9	<77.6	<62.2	<41.3	<103	88,200	<81.0	<79.3	6,980	<86.7	<98.2	<112	<98.9	195,000	2,290,000	<98.3	190	<511	4,810	<512	<81.9	<330	9,000	<85.1	<136	<59.0	302	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	2,240,000
	12/29/2022	1320	19,000	<63.9	<77.6	<62.2	<41.3	<103	93,300	<81.0	<79.3	6,280	<86.7	<98.2	<112	<98.9	181,000	1,310,000	<98.3	<69.4	<511	10,200	<512	<81.9	<330	11,000	<85.1	<136	<59.0	304	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	9,750,000
	1/4/2023	1218	<297	<63.9	<77.6	124	<41.3	<103	26,500	<81.0	<79.3	2,750	<86.7	<98.2	<112	<98.9	38,900	765,000	<98.3	76.4	<511	4,250	<512	<81.9	<330	4,820	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	1,170,000
	1/9/2023	1110	<2,970	<63.9	<776	<622	<413	<103	82,700	<81.1	<793	9,820	<86.7	<98.2	<1,120	<989	106,000	1,320,000	<98.3	<694	<511	<3,690	<512	<81.9	<330	53,800	<85.1	<136	<590	<188	<1,090	<107	<98.2	101	<704	<173	<86.7	1,720,000
		1400	Initiate Vacuum Recovery Event																																			
		1507	<297	<63.9	<77.6	<62.2	<41.3	<103	263	<81.0	<79.3	2,470	<86.7	<98.2	<112	<98.9	638	2,530	<98.3	77.8	<511	<369	<512	<81.9	<330	4,230	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1608	<297	<63.9	<77.6	<62.2	<41.3	<103	174	<81.0	<79.3	2,620	<86.7	<98.2	<112	<98.9	353	2,670	<98.3	74.7	<511	<369	<512	<81.9	<330	7,940	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1608	Vacuum Recovery Event Terminated																																			
		1706	<297	<63.9	<77.6	<62.2	64.6	<103	2,040	<81.0	<79.3	2,750	<86.7	<98.2	<112	<98.9	3,750	16,000	<98.3	79.2	<511	<369	<512	<81.9	<330	6,830	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	135,000
	1/13/2023	1217	9,510	<63.9	<77.6	95.6	<41.3	<103	43,400	<81.0	<79.3	4,880	<86.7	<98.2	<112	<98.9	<81.8	241,000	<98.3	<69.4	<511	3,270	<512	<81.9	<330	13,300	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	1,510,000
	1/19/2023	1154	35,200	492	<77.6	321	<41.3	<103	630,000	<81.0	<79.3	6,670	120	<98.2	<112	<98.9	72,400	705,000	<98.3	1,790	<511	2,840	<512	<81.9	<330	11,800	<85.1	162	<59.0	1,210	<109	<107	<98.2	<98.2	<70.4	252	<86.7	5,450,000
	1/23/2023	1111	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	486,000	<8,100	<7,930	1,260,000	<8,670	<9,820	<11,200	<9,890	109,000	864,000	<9,830	18,800	<51,100	<36,900	<51,200	40,900	<33,000	1,530,000	<8,510	<13,600	<5,900	27,200	<							

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	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
	3/20/203	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																																			
		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	<85.1	<136	<59.0	689	<109	<107	98.7	<98.2	<70.4	754	283	<82,600
		1240	Vacuum Recovery Event Terminated																																			
		1342	2,010	<63.9	<77.6	<62.2	42.5	<103	4,240	<81.0	<79.3	10,600	4,200	108	<112	<98.9	4,790	15,700	425	469	<511	<369	<512	<81.9	<330	6,960	<85.1	<136	<59.0	4,260	<109	<107	166	<98.2	<70.4	3,180	1,150	280,000
	3/23/2023	1259	1,290	<63.9	<77.6	1,040	<41.3	<103	21,800	<81.0	<79.3	1,310	18,300	3,370	<112	<98.9	<81.8	99,400	2,630	<69.4	<511	<369	<512	<81.9	<330	3,270	<85.1	<136	<59.0	9,790	<109	<107	1,210	658	<70.4	13,400	5,900	1,160,000
	3/29/2023	1223	<297	<63.9	<77.6	651	<41.3	<103	39,600	<81.0	<79.3	2,750	8,930	1,620	<112	<98.9	25,500	255,000	1,430	<69.4	<511	377	<512	<81.9	<330	48,400	<85.1	<136	<59.0	3,610	<109	<107	515	322	<70.4	7,110	3,240	983,000
	4/5/2023	1015	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	12,100	<16.2	<15.9	<47.1	60.7	<19.6	<22.5	<19.8	5,770	141,000	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	92.3	<21.8	<21.4	<19.6	<19.6	<14.1	49.4	24.0	145,000
		1016	Initiate Vacuum Recovery Event																																			
		1128	<59.4	42.8	<15.5	<12.4	<8.26	<20.6	651	<16.2	<15.9	273	20.2	<19.6	<22.5	<19.8	753	3,520	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	165	<21.8	<21.4	<19.6	<19.6	<14.1	46.0	<17.3	<16,500
		1237	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	217	<16.2	<15.9	128	<17.3	<19.6	<22.5	<19.8	229	1,490	<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
		1237	Vacuum Recovery Event Terminated																																			
		1339	<59.4	14.1	<15.5	82.5	<8.26	<20.6	2,550	<16.2	<15.9	180	52.5	<19.6	<22.5	<19.8	1,630	23,600	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	88.5	<21.8	<21.4	<19.6	<19.6	<14.1	52.5	25.8	37,300
	4/14/2023	1457	2,160	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	1,470	2,690	2,570	<112	<98.9	16,000	323,000	698	<69.4	<511	<369	<512	<81.9	<330	5,330	<85.1	<136	<59.0	1,020	<109	<107	1,450	702	<70.4	4,420	2,210	991,000
	4/16/2023	1005	<5,940	<63.9	<1,550	<1,240	<826	<103	<1,380	<81.0	<1,590	<9,430	1,300	<98.2	<2,250	<1,980	<81.8	1,000,000	294	<1,390	<511	<7,370	<512	<81.9	<330	9,760	<85.1	<136	<1,180	<188	<2,180	<107	667	316	<1,410	2,100	1,000	2,610,000
		1006	Initiate Vacuum Recovery Event																																			
		1235	12,000	<12.8	<15.5	59.4	<8.26	<20.6	<13.8	<16.2	<15.9	<47.1	192	<19.6	<22.5	<19.8	2,800	8,810	41.7	<13.9	<102	79.3	<102	<16.4	<66.0	228	<17.0	<27.2	<11.8	565	<21.8	<21.4	167	94.7	<14.1	668	205	85,500
		1339	8,700	<0.639	<0.776	8.25	<0.413	<1.03	<0.689	<0.810	<0.793	32.6	60.3	<0.982	1.24	2.54	384	1,980	13.8	<0.694	<5.11	54.6	<5.12	<0.819	<3.30	175	<0.851	<1.36	<0.590	105	<1.09	<1.07	48.1	24.0	<0.704	129	51.6	17,800
		1339	Vacuum Recovery Event Terminated																																			
		1438	5,820	<12.8	<15.5	124	<8.26	<20.6	6,230	<16.2	<15.9	<47.1	331	<19.6	<22.5	<19.8	1,910	1,730,000	73.7	<13.9	<102	<73.7	<102	<16.4	<66.0	337	<17.0	<27.2	<11.8	270	<21.8	<21.4	199	94.7	<14.1	581	264	196,000
	4/26/2023	1540	<2,970	<639	<776	<622	<413	<20.6	<689	<810	<793	<4,710	1,080	869	<1,120	<989	77,300	807,000	276	<69.4	<5,110	<3,690	<5,120	<819	<66.0	4,420	<17.0	<1,360	<590	<1,880	<1,090	<1,070	316	229	<704	2,480	1,360	1,790,000
	5/1/2023	0938	58,000	<63.9	<77.6	<62.2	<41.3	<103	123,000	<81.0	<79.3	99,000	12,700	<0.982	<112	<98.9	96,500	1,700,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	413,000	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	41,500	<8,670	<8,260,000
		0939	Initiate Vacuum Recovery Event																																			
		1046	601	<63.9	<77.6	<62.2	<41.3	<103	314	<81.0	<79.3	2,790	<86.7	<98.2	<112	<98.9	398	11,400	<98.3	137	<511	<369	<512	<81.9	<330	4,570	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1154	6,180	166	<77.6	<62.2	143	<103	<68.9	417	<79.3	6,000	132	613	123	197	310	5,390	<98.3	597	<511	1,090	<512	<81.9	<330	868	215	<136	<59.0	3,770	<109	<107	883	265	<70.4	407	147	<82,600
		1154	Vacuum Recovery Event Terminated																																			
		1300	1,050	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	4,860	<86.7	<98.2	<112	<98.9	1,440	11,300	<98.3	234	<511	<369	<512	<81.9	<330	4,420	<85.1	<136	<59.0	242	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
	5/2/2023	1312	2,260	<63.9	<77.6	<62.2	<41.3	<103	86,800	<81.0	<79.3	4,260	276	342	<112	<98.9	70,300	575,000	<98.3	<69.4	<511	433	<512	<81.9	<330	4,940	<85.1	<136	<59.0	348	<109	<107	200	104	<70.4	650	349	1,880,000
	5/11/2023	1330	4,660	<63.9	<77.6	160	<63.9	<77.6	55,100	<81.0	<79.3	2,450	681	122	<112	<98.9	37,100	698,000	147	<69.4	<511	1,160	<512	<81.9	<330	9,370	<85.1	<136	<59.0	471	<109	<107	238	159	<70.4	1,300	681	1,830,000
	5/25/2023	1156	4,130	<63.9	<77.6	270	<41.3	<103	82,000	<81.0	<79.3	4,660	285	<98.2	<112	<98.9	84,700	892,000	<98.3	<69.4	<511	1,290	<512	<81.9	<330	7,790	<85.1	<136	<59.0	429	<109	<107	99.6	<98.2	<70.4	542	276	1,830,000
	5/30/202	1023	364,000	<63.9	<77.6	32,700	<41.3	<103	180,000	<81.0	<79.3	<47,100	646	359	<112	<98.9	198,000	2,210,000	159	<69.4	<511	171,000	<512	<81.9	<330	216,000	<85.1	153	<59.0	501	15,200	<107	584	334	<70.4	1,170	711	<82,600
		1024	Initiate Vacuum Recovery Event																																			
		1143	<297	<63.9	<77.6	<62.2	<41.3	<103	906	<81.0	<79.3	7,500	<86.7	<98.2	<112	<98.9	973	9,550	<98.3	358	<511	<369	<512	111	<330	7,690	86.3	186	<59.0	456	<109	<107	<98.2	<98.2	<70.4	183	<86.7	<82,600
		1300	<297	<63.9	<77.6	<62.2	<41.3	<103	647	<81.0	<79.3	7,350	<																									



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	8/14/2023	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
		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	<272	<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	<107	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	<29,700	<6,390	<7,760	17,900	<4,130	<10,300	110,000	<8,100	<7,930	294,000	<8,670	<9,820	<11,200	<9,890	36,900	1,330,000	<9,830	20,500	<51,100	<36,900	<51,200	55,700	<33,000	1,090,000	<8,510	58,600	<5,900	48,600	<10,900	<10,700	<9,820	<9,820	<7,040	17,400	<8,670	<8,260,000
	10/9/2023	0801	Initiate Vacuum Recovery Event																																			
		0912	3,490	351	<77.6	454	<41.3	<103	2,260	<81.0	464	7,450	316	246	<112	<98.9	3,650	13,600	<98.3	420	<511	<369	<512	280	<330	23,500	271	1,850	<59.0	2,590	<109	8,410	270	<98.2	<70.4	1,150	334	101,000
		1100	3,640	168	<77.6	473	<41.3	<103	2,790	<81.0	82.0	6,070	359	287	<112	<98.9	<81.8	16,000	<98.3	<69.4	<511	<369	<512	659	<330	5,600	<85.1	322	<59.0	1,930	<109	638	269	<98.2	<222	1,450	438	128,000
		1100	Vacuum Recovery Event Terminated																																			
		1119	2,070	99.7	<77.6	181	<41.3	<103	1,990	<81.0	154	2,150	218	213	<112	<98.9	2,120	11,000	<98.3	177	<511	<369	<512	<81.9	<330	3,070	<85.1	441	<59.0	1,050	<109	2,230	217	<98.2	<222	971	313	<82,600
	10/17/2023	1207	2,990	351	<77.6	<62.2	126	<103	194	<81.0	<79.3	60,300	633	201	121	221	548	3,470	<98.3	11,600	<511	<369	<512	<81.9	<330	4,890	<85.1	1,860	<59.0	2,830	<109	<107	834	220	<222	2,050	863	<82,600
	10/23/2023	1013	1,630	<63.9	<77.6	78.7	<41.3	<103	33,400	<81.0	<79.3	2,190	<86.7	<98.2	<112	<98.9	18,800	2,530,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	8,780	<85.1	<136	<59.0	471	<109	<107	127	<98.2	<222	225	<86.7	888,000
		1014	Initiate Vacuum Recovery Event																																			
		1200	1,140	<63.9	<77.6	<62.2	<41.3	<103	1,670	<81.0	<79.3	3,090	<86.7	100	<112	<98.9	1,270	16,700	<98.3	210	<511	<369	<512	<81.9	<330	2,560	<85.1	<136	<59.0	414	<109	<107	123	<98.2	<222	232	<86.7	<82,600
1358		1,150	<63.9	<77.6	<62.2	<41.3	<103	1,240	<81.0	<79.3	2,980	166	279	<112	<98.9	916	11,900	<98.3	180	<511	<369	<512	<81.9	<330	2,440	<85.1	<136	<59.0	486	<109	<107	230	<98.2	<222	486	154	<82,600	
1358		Vacuum Recovery Event Terminated																																				
10/31/2023	1445	1,400	<63.9	<77.6	<62.2	<41.3	<103	5,510	<81.0	<79.3	3,450	219	525	<112	<98.9	<81.8	63,800	<98.3	<69.4	<511	<369	<512	<81.9	<330	2,830	<85.1	<136	<59.0	527	<109	<107	460	178	<222	681	227	205,000	
	1107	2,970	<63.9	<77.6	99.6	<41.3	<103	20,300	125	<79.3	2,900	<86.7	<98.2	<112	<98.9	13,700	292,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	7,350	103	332											

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

Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	12/8/2023	0836	195	<12.8	<15.5	<25.2	<8.26	<20.6	2,350	<16.2	<15.9	194	<17.3	<19.6	<22.5	19.8	2,690	43,400	<19.7	<16.4	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<11.8	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<44.4	<34.7	<17.3	77,700
		0837	Initiate Vacuum Recovery Event																																			
		1001	1,640	27,100	<77.6	92.4	<41.3	<103	212,000	<81.0	<79.3	2,090	4,290	<98.2	<112	<98.9	197,000	90,300	317	128	<511	<369	<512	<81.9	<330	3,420	<85.1	<136	<59.0	87,800	<109	<107	105	<98.2	<222	10,100	2,220	1,570,000
		1107	<297	66,800	<77.6	<62.2	<41.3	<103	393,000	<81.0	<79.3	1,710	27,700	398	<112	<98.9	560,000	111,000	2,730	127	<511	<369	<512	<81.9	<330	3,220	<85.1	<136	<59.0	343,000	<109	<107	618	579	<222	64,200	16,000	8,180,000
		1107	Vacuum Recovery Event Terminated																																			
		12/11/2023	1207	<2,970	35,100	<776	<622	<413	<1,030	194,000	<810	<793	<4,710	32,000	<982	<1,120	<989	337,000	49,400	4,120	<69.4	<5,110	<3,690	<5,120	<819	<3,300	8,480	<851	<1,360	<590	250,000	<1,090	<1,070	1,570	1,290	14,500	79,300	21,700
	1207		1,240	174	<77.6	<62.2	<41.3	<103	1,430	<81.0	<79.3	1,210	863	145	<112	<98.9	2,800	4,410	142	175	<511	<369	<512	<81.9	<330	6,020	<85.1	<136	<59.0	3,390	<109	<107	741	299	<222	2,670	798	131,000
	12/18/2023	0948	1,830	901	<77.6	<62.2	<41.3	<103	13,700	<81.0	<79.3	1,160	629	192	<112	<98.9	11,400	109,000	149	<69.4	<511	<369	<512	<81.9	<330	4,820	<85.1	<136	<59.0	4,520	<109	<107	114	<98.2	<222	1,930	620	525,000
		0949	Initiate Vacuum Recovery Event																																			
		1237	1,170	189	<77.6	<62.2	<41.3	<103	2,520	<81.0	<79.3	1,530	319	192	<112	<98.9	3,370	7,720	<98.3	157	<511	<369	<512	<81.9	<330	2,380	<85.1	<136	<59.0	2,000	<109	<107	119	<98.2	<222	1,020	329	107,000
		1237	Vacuum Recovery Event Terminated																																			
		1338	1,120	540	<77.6	<62.2	<41.3	<103	6,440	<81.0	<79.3	1,240	1,230	271	<112	<98.9	11,100	9,800	232	<69.4	<511	<369	<512	<81.9	<330	2,120	<85.1	<136	<59.0	8,700	<109	<107	190	133	<222	3,480	1,020	295,000

NOTES:
ug/m3 - micrograms per cubic meter of air



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-36717-1

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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Authorized for release by
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Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Laboratory Job ID: 880-36717-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-36717-1
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
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: 880-36717-1
SDG: Hobbs NM

Job ID: 880-36717-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-36717-1**

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 12/8/2023 3:10 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°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 860-134468 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 860-134468 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_ORGFM_28D: The instrument blank/CCB for analytical batch 860-134468 contained Chloride and Sulfate 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: The following sample was diluted to bring the concentration of target analytes within the calibration range: Levey Well (880-36717-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-36717-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-36717-1

Date Collected: 12/08/23 12:17

Matrix: Water

Date Received: 12/08/23 15:10

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		12/11/23 11:57	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		12/11/23 11:57	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		12/11/23 11:57	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		12/11/23 11:57	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		12/11/23 11:57	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		12/11/23 11:57	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		12/11/23 11:57	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		12/11/23 11:57	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		12/11/23 11:57	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		12/11/23 11:57	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		12/11/23 11:57	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		12/11/23 11:57	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		12/11/23 11:57	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		12/11/23 11:57	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		12/11/23 11:57	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		12/11/23 11:57	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		12/11/23 11:57	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		12/11/23 11:57	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		12/11/23 11:57	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		12/11/23 11:57	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		12/11/23 11:57	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		12/11/23 11:57	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		12/11/23 11:57	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		12/11/23 11:57	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		12/11/23 11:57	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		12/11/23 11:57	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		12/11/23 11:57	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		12/11/23 11:57	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		12/11/23 11:57	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		12/11/23 11:57	1
Ethylbenzene	0.000630	J	0.00100	0.000385	mg/L		12/11/23 11:57	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		12/11/23 11:57	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		12/11/23 11:57	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		12/11/23 11:57	1
m,p-Xylenes	0.00233	J	0.0100	0.00124	mg/L		12/11/23 11:57	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		12/11/23 11:57	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		12/11/23 11:57	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		12/11/23 11:57	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		12/11/23 11:57	1
o-Xylene	0.000585	J	0.00100	0.000502	mg/L		12/11/23 11:57	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		12/11/23 11:57	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		12/11/23 11:57	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		12/11/23 11:57	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		12/11/23 11:57	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		12/11/23 11:57	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		12/11/23 11:57	1
Tetrachloroethene	0.000779	J	0.00100	0.000655	mg/L		12/11/23 11:57	1
Toluene	0.00112		0.00100	0.000475	mg/L		12/11/23 11:57	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		12/11/23 11:57	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-36717-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-36717-1

Date Collected: 12/08/23 12:17

Matrix: Water

Date Received: 12/08/23 15:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/11/23 11:57	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			12/11/23 11:57	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/11/23 11:57	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			12/11/23 11:57	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			12/11/23 11:57	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			12/11/23 11:57	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			12/11/23 11:57	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			12/11/23 11:57	1
1,2,4-Trimethylbenzene	0.00122		0.00100	0.000417 mg/L			12/11/23 11:57	1
1,3,5-Trimethylbenzene	0.000541	J	0.00100	0.000411 mg/L			12/11/23 11:57	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			12/11/23 11:57	1
Xylenes, Total	0.00292	J	0.0100	0.00124 mg/L			12/11/23 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		12/11/23 11:57	1
Dibromofluoromethane (Surr)	101		75 - 131		12/11/23 11:57	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		12/11/23 11:57	1
Toluene-d8 (Surr)	101		80 - 120		12/11/23 11:57	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.500		0.500	0.0711 mg/L			12/09/23 21:16	1
Nitrate as N	0.143		0.100	0.0391 mg/L			12/09/23 21:16	1
Chloride	238		0.500	0.250 mg/L			12/09/23 21:16	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/09/23 21:16	1
Fluoride	0.645		0.500	0.100 mg/L			12/09/23 21:16	1
Sulfate	45.7		0.500	0.200 mg/L			12/09/23 21:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	203		10.0	5.76 mg/L		12/11/23 10:01	12/11/23 18:48	50
Magnesium	40.9		0.200	0.0428 mg/L		12/11/23 10:01	12/11/23 18:34	1
Potassium	2.71		0.500	0.0914 mg/L		12/11/23 10:01	12/11/23 18:34	1
Sodium	78.5		0.500	0.152 mg/L		12/11/23 10:01	12/11/23 18:34	1
SiO2	66.3		1.07	0.471 mg/L		12/11/23 10:01	12/11/23 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-4.79			%			12/12/23 20:01	1
Alkalinity (SM 2320B)	439		4.00	4.00 mg/L			12/11/23 14:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	439		4.00	4.00 mg/L			12/11/23 14:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/11/23 14:39	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/11/23 14:39	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/11/23 14:39	1
Total Dissolved Solids (SM 2540C)	1090		10.0	10.0 mg/L			12/11/23 10:18	1
pH (SM 4500 H+ B)	7.0	HF		SU			12/11/23 11:12	1
Temperature (SM 4500 H+ B)	20.9	HF		Celsius			12/11/23 11:12	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-36717-1
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)
880-36717-1	Levey Well	102	101	99	101
LCS 860-134475/3	Lab Control Sample	98	97	93	98
LCSD 860-134475/4	Lab Control Sample Dup	96	96	93	97
MB 860-134475/10	Method Blank	98	101	99	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: 880-36717-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-134475/10

Matrix: Water

Analysis Batch: 134475

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			12/11/23 10:56	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			12/11/23 10:56	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			12/11/23 10:56	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/11/23 10:56	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/11/23 10:56	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/11/23 10:56	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/11/23 10:56	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/11/23 10:56	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			12/11/23 10:56	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/11/23 10:56	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			12/11/23 10:56	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/11/23 10:56	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			12/11/23 10:56	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			12/11/23 10:56	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			12/11/23 10:56	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/11/23 10:56	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/11/23 10:56	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			12/11/23 10:56	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/11/23 10:56	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			12/11/23 10:56	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			12/11/23 10:56	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			12/11/23 10:56	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			12/11/23 10:56	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/11/23 10:56	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			12/11/23 10:56	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/11/23 10:56	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			12/11/23 10:56	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/11/23 10:56	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			12/11/23 10:56	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			12/11/23 10:56	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			12/11/23 10:56	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			12/11/23 10:56	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			12/11/23 10:56	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/11/23 10:56	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/11/23 10:56	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/11/23 10:56	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/11/23 10:56	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			12/11/23 10:56	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			12/11/23 10:56	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			12/11/23 10:56	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			12/11/23 10:56	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/11/23 10:56	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			12/11/23 10:56	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/11/23 10:56	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/11/23 10:56	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/11/23 10:56	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			12/11/23 10:56	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/11/23 10:56	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-36717-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-134475/10
Matrix: Water
Analysis Batch: 134475

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			12/11/23 10:56	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/11/23 10:56	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			12/11/23 10:56	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/11/23 10:56	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			12/11/23 10:56	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			12/11/23 10:56	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			12/11/23 10:56	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			12/11/23 10:56	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			12/11/23 10:56	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/11/23 10:56	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/11/23 10:56	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			12/11/23 10:56	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/11/23 10:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		12/11/23 10:56	1
Dibromofluoromethane (Surr)	101		75 - 131		12/11/23 10:56	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		12/11/23 10:56	1
Toluene-d8 (Surr)	99		80 - 120		12/11/23 10:56	1

Lab Sample ID: LCS 860-134475/3
Matrix: Water
Analysis Batch: 134475

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	0.04177		mg/L		84	75 - 125
Bromobenzene	0.0500	0.04336		mg/L		87	75 - 125
Bromochloromethane	0.0500	0.04479		mg/L		90	60 - 140
Bromodichloromethane	0.0500	0.04305		mg/L		86	75 - 125
Bromoform	0.0500	0.04623		mg/L		92	70 - 130
Bromomethane	0.0500	0.05102		mg/L		102	60 - 140
2-Butanone	0.250	0.2366		mg/L		95	60 - 140
Carbon tetrachloride	0.0500	0.04359		mg/L		87	70 - 130
Chlorobenzene	0.0500	0.04171		mg/L		83	65 - 135
Chloroethane	0.0500	0.04931		mg/L		99	60 - 140
Chloroform	0.0500	0.04193		mg/L		84	70 - 121
Chloromethane	0.0500	0.04949		mg/L		99	60 - 140
2-Chlorotoluene	0.0500	0.04210		mg/L		84	73 - 125
4-Chlorotoluene	0.0500	0.04176		mg/L		84	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04208		mg/L		84	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04449		mg/L		89	74 - 125
Dibromochloromethane	0.0500	0.04449		mg/L		89	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04823		mg/L		96	59 - 125
1,2-Dibromoethane	0.0500	0.04429		mg/L		89	73 - 125
1,2-Dichlorobenzene	0.0500	0.04334		mg/L		87	75 - 125
1,3-Dichlorobenzene	0.0500	0.04301		mg/L		86	75 - 125
1,4-Dichlorobenzene	0.0500	0.04279		mg/L		86	75 - 125
Dichlorodifluoromethane	0.0500	0.05527		mg/L		111	50 - 150

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QC Sample Results

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

Job ID: 880-36717-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-134475/3
Matrix: Water
Analysis Batch: 134475

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	0.04068		mg/L		81	70 - 130
1,2-Dichloroethane	0.0500	0.04260		mg/L		85	72 - 130
1,1-Dichloroethene	0.0500	0.04061		mg/L		81	50 - 150
1,2-Dichloropropane	0.0500	0.04252		mg/L		85	74 - 125
1,3-Dichloropropane	0.0500	0.04343		mg/L		87	75 - 125
2,2-Dichloropropane	0.0500	0.04503		mg/L		90	75 - 125
1,1-Dichloropropene	0.0500	0.04208		mg/L		84	75 - 125
Ethylbenzene	0.0500	0.04188		mg/L		84	75 - 125
Hexachlorobutadiene	0.0500	0.04465		mg/L		89	75 - 125
Isopropylbenzene	0.0500	0.04311		mg/L		86	75 - 125
Methylene Chloride	0.0500	0.04091		mg/L		82	71 - 125
m,p-Xylenes	0.0500	0.04198		mg/L		84	75 - 125
MTBE	0.0500	0.04333		mg/L		87	65 - 135
Naphthalene	0.0500	0.04694		mg/L		94	70 - 130
n-Butylbenzene	0.0500	0.04327		mg/L		87	75 - 125
N-Propylbenzene	0.0500	0.04227		mg/L		85	75 - 125
o-Xylene	0.0500	0.04219		mg/L		84	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04344		mg/L		87	75 - 125
sec-Butylbenzene	0.0500	0.04341		mg/L		87	75 - 125
Styrene	0.0500	0.04296		mg/L		86	75 - 125
tert-Butylbenzene	0.0500	0.04313		mg/L		86	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04318		mg/L		86	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04451		mg/L		89	74 - 125
Tetrachloroethene	0.0500	0.04362		mg/L		87	71 - 125
Toluene	0.0500	0.04116		mg/L		82	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04050		mg/L		81	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04467		mg/L		89	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04538		mg/L		91	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04470		mg/L		89	75 - 135
1,1,1-Trichloroethane	0.0500	0.04275		mg/L		85	70 - 130
1,1,2-Trichloroethane	0.0500	0.04266		mg/L		85	70 - 130
Trichloroethene	0.0500	0.04168		mg/L		83	75 - 135
Trichlorofluoromethane	0.0500	0.05480		mg/L		110	60 - 140
1,2,3-Trichloropropane	0.0500	0.04447		mg/L		89	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04362		mg/L		87	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04237		mg/L		85	60 - 140
Vinyl chloride	0.0500	0.05177		mg/L		104	60 - 140

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	98		80 - 120

QC Sample Results

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

Job ID: 880-36717-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-134475/4

Matrix: Water

Analysis Batch: 134475

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	0.04578		mg/L		92	75 - 125	9	25
Bromobenzene	0.0500	0.04650		mg/L		93	75 - 125	7	25
Bromochloromethane	0.0500	0.04888		mg/L		98	60 - 140	9	25
Bromodichloromethane	0.0500	0.04812		mg/L		96	75 - 125	11	25
Bromoform	0.0500	0.05273		mg/L		105	70 - 130	13	25
Bromomethane	0.0500	0.04646		mg/L		93	60 - 140	9	25
2-Butanone	0.250	0.2713		mg/L		109	60 - 140	14	25
Carbon tetrachloride	0.0500	0.04493		mg/L		90	70 - 130	3	25
Chlorobenzene	0.0500	0.04548		mg/L		91	65 - 135	9	25
Chloroethane	0.0500	0.04604		mg/L		92	60 - 140	7	25
Chloroform	0.0500	0.04503		mg/L		90	70 - 121	7	25
Chloromethane	0.0500	0.04478		mg/L		90	60 - 140	10	25
2-Chlorotoluene	0.0500	0.04463		mg/L		89	73 - 125	6	25
4-Chlorotoluene	0.0500	0.04414		mg/L		88	74 - 125	6	25
cis-1,2-Dichloroethene	0.0500	0.04496		mg/L		90	75 - 125	7	25
cis-1,3-Dichloropropene	0.0500	0.04916		mg/L		98	74 - 125	10	25
Dibromochloromethane	0.0500	0.04959		mg/L		99	73 - 125	11	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05606		mg/L		112	59 - 125	15	25
1,2-Dibromoethane	0.0500	0.04959		mg/L		99	73 - 125	11	25
1,2-Dichlorobenzene	0.0500	0.04623		mg/L		92	75 - 125	6	25
1,3-Dichlorobenzene	0.0500	0.04551		mg/L		91	75 - 125	6	25
1,4-Dichlorobenzene	0.0500	0.04540		mg/L		91	75 - 125	6	25
Dichlorodifluoromethane	0.0500	0.04741		mg/L		95	50 - 150	15	25
1,1-Dichloroethane	0.0500	0.04211		mg/L		84	70 - 130	3	25
1,2-Dichloroethane	0.0500	0.04804		mg/L		96	72 - 130	12	25
1,1-Dichloroethene	0.0500	0.04429		mg/L		89	50 - 150	9	25
1,2-Dichloropropane	0.0500	0.04781		mg/L		96	74 - 125	12	25
1,3-Dichloropropane	0.0500	0.04785		mg/L		96	75 - 125	10	25
2,2-Dichloropropane	0.0500	0.04770		mg/L		95	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.04404		mg/L		88	75 - 125	5	25
Ethylbenzene	0.0500	0.04553		mg/L		91	75 - 125	8	25
Hexachlorobutadiene	0.0500	0.04603		mg/L		92	75 - 125	3	25
Isopropylbenzene	0.0500	0.04683		mg/L		94	75 - 125	8	25
Methylene Chloride	0.0500	0.04472		mg/L		89	71 - 125	9	25
m,p-Xylenes	0.0500	0.04568		mg/L		91	75 - 125	8	25
MTBE	0.0500	0.04924		mg/L		98	65 - 135	13	25
Naphthalene	0.0500	0.05177		mg/L		104	70 - 130	10	25
n-Butylbenzene	0.0500	0.04529		mg/L		91	75 - 125	5	25
N-Propylbenzene	0.0500	0.04425		mg/L		89	75 - 125	5	25
o-Xylene	0.0500	0.04638		mg/L		93	75 - 125	9	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04610		mg/L		92	75 - 125	6	25
sec-Butylbenzene	0.0500	0.04546		mg/L		91	75 - 125	5	25
Styrene	0.0500	0.04723		mg/L		94	75 - 125	9	25
tert-Butylbenzene	0.0500	0.04562		mg/L		91	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.04688		mg/L		94	72 - 125	8	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.04907		mg/L		98	74 - 125	10	25
Tetrachloroethene	0.0500	0.04709		mg/L		94	71 - 125	8	25
Toluene	0.0500	0.04459		mg/L		89	70 - 130	8	25

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QC Sample Results

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

Job ID: 880-36717-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-134475/4				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 134475											
Analyte	Spike			LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier	Limits	Limit						
trans-1,2-Dichloroethene	0.0500	0.04416		mg/L		88	75 - 125	9	25		
trans-1,3-Dichloropropene	0.0500	0.04949		mg/L		99	66 - 125	10	25		
1,2,3-Trichlorobenzene	0.0500	0.04887		mg/L		98	75 - 137	7	25		
1,2,4-Trichlorobenzene	0.0500	0.04773		mg/L		95	75 - 135	7	25		
1,1,1-Trichloroethane	0.0500	0.04546		mg/L		91	70 - 130	6	25		
1,1,2-Trichloroethane	0.0500	0.04801		mg/L		96	70 - 130	12	25		
Trichloroethene	0.0500	0.04650		mg/L		93	75 - 135	11	25		
Trichlorofluoromethane	0.0500	0.04897		mg/L		98	60 - 140	11	25		
1,2,3-Trichloropropane	0.0500	0.04986		mg/L		100	75 - 125	11	25		
1,2,4-Trimethylbenzene	0.0500	0.04588		mg/L		92	75 - 125	5	25		
1,3,5-Trimethylbenzene	0.0500	0.04494		mg/L		90	60 - 140	6	25		
Vinyl chloride	0.0500	0.04638		mg/L		93	60 - 140	11	25		
Surrogate	LCSD		LCSD	Limits							
	%Recovery	Qualifier									
4-Bromofluorobenzene (Surr)	96		74 - 124								
Dibromofluoromethane (Surr)	96		75 - 131								
1,2-Dichloroethane-d4 (Surr)	93		63 - 144								
Toluene-d8 (Surr)	97		80 - 120								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-134468/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 134468									
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Bromide	<0.0711	U	0.500	0.0711 mg/L			12/09/23 16:53		1
Chloride	<0.250	U	0.500	0.250 mg/L			12/09/23 16:53		1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/09/23 16:53		1
Sulfate	<0.200	U	0.500	0.200 mg/L			12/09/23 16:53		1

Lab Sample ID: LCS 860-134468/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 134468							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	10.32		mg/L		103	90 - 110
Chloride	10.0	10.06		mg/L		101	90 - 110
Fluoride	10.0	10.65		mg/L		106	90 - 110
Sulfate	10.0	10.35		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-134468/5							Client Sample ID: Lab Control Sample Dup				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 134468											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD		
							Limits	RPD	Limits	RPD	
Bromide	10.0	10.32		mg/L		103	90 - 110	0	20		
Chloride	10.0	10.07		mg/L		101	90 - 110	0	20		
Fluoride	10.0	10.63		mg/L		106	90 - 110	0	20		

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QC Sample Results

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

Job ID: 880-36717-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-134468/5

Matrix: Water

Analysis Batch: 134468

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	10.41		mg/L		104	90 - 110	1	20

Lab Sample ID: LLCS 860-134468/7

Matrix: Water

Analysis Batch: 134468

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	0.5831		mg/L		117	50 - 150
Chloride	0.500	0.5712		mg/L		114	50 - 150
Fluoride	0.500	0.5108		mg/L		102	50 - 150
Sulfate	0.500	0.5527		mg/L		111	50 - 150

Lab Sample ID: MB 860-134469/3

Matrix: Water

Analysis Batch: 134469

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			12/09/23 16:53	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/09/23 16:53	1

Lab Sample ID: LCS 860-134469/4

Matrix: Water

Analysis Batch: 134469

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	10.31		mg/L		103	80 - 120
Nitrite as N	10.0	10.28		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-134469/5

Matrix: Water

Analysis Batch: 134469

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	10.32		mg/L		103	80 - 120	0	20
Nitrite as N	10.0	10.27		mg/L		103	80 - 120	0	20

Lab Sample ID: LLCS 860-134469/6

Matrix: Water

Analysis Batch: 134469

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	0.1246		mg/L		125	50 - 150
Nitrite as N	0.100	0.09718	J	mg/L		97	50 - 150

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QC Sample Results

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

Job ID: 880-36717-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-134528/1-A

Matrix: Water

Analysis Batch: 134714

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 134528

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		12/11/23 10:01	12/11/23 16:52	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		12/11/23 10:01	12/11/23 16:52	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		12/11/23 10:01	12/11/23 16:52	1
Sodium	<0.152	U	0.500	0.152 mg/L		12/11/23 10:01	12/11/23 16:52	1
SiO2	<0.471	U	1.07	0.471 mg/L		12/11/23 10:01	12/11/23 16:52	1

Lab Sample ID: LCS 860-134528/2-A

Matrix: Water

Analysis Batch: 134714

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134528

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	24.70		mg/L		99	85 - 115
Potassium	10.0	10.20		mg/L		102	85 - 115
Sodium	25.0	25.10		mg/L		100	85 - 115
SiO2	21.4	21.83		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-134528/3-A

Matrix: Water

Analysis Batch: 134714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 134528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.70		mg/L		103	85 - 115	1	20
Magnesium	25.0	24.80		mg/L		99	85 - 115	0	20
Potassium	10.0	10.20		mg/L		102	85 - 115	0	20
Sodium	25.0	25.20		mg/L		101	85 - 115	0	20
SiO2	21.4	22.04		mg/L		103	85 - 115	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-134629/3

Matrix: Water

Analysis Batch: 134629

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			12/11/23 10:36	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/11/23 10:36	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/11/23 10:36	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			12/11/23 10:36	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			12/11/23 10:36	1

Lab Sample ID: LCS 860-134629/4

Matrix: Water

Analysis Batch: 134629

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	264.0		mg/L		106	85 - 115

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QC Sample Results

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

Job ID: 880-36717-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-134629/5

Matrix: Water

Analysis Batch: 134629

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	275.4		mg/L		110	85 - 115	4	20

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

Lab Sample ID: MB 860-134534/1

Matrix: Water

Analysis Batch: 134534

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			12/11/23 10:18	1

Lab Sample ID: LCS 860-134534/2

Matrix: Water

Analysis Batch: 134534

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	1000		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-134534/3

Matrix: Water

Analysis Batch: 134534

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	1005		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-134534/4

Matrix: Water

Analysis Batch: 134534

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

QC Association Summary

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

Job ID: 880-36717-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 134475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36717-1	Levey Well	Total/NA	Water	8260C	
MB 860-134475/10	Method Blank	Total/NA	Water	8260C	
LCS 860-134475/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-134475/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 134468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36717-1	Levey Well	Total/NA	Water	300.0	
MB 860-134468/3	Method Blank	Total/NA	Water	300.0	
LCS 860-134468/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-134468/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-134468/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 134469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36717-1	Levey Well	Total/NA	Water	300.0	
MB 860-134469/3	Method Blank	Total/NA	Water	300.0	
LCS 860-134469/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-134469/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-134469/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 134528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36717-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-134528/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-134528/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-134528/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 134714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36717-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	134528
880-36717-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	134528
MB 860-134528/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	134528
LCS 860-134528/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	134528
LCSD 860-134528/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	134528

General Chemistry

Analysis Batch: 134534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36717-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-134534/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-134534/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-134534/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-134534/4	Lab Control Sample	Total/NA	Water	SM 2540C	

QC Association Summary

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

Job ID: 880-36717-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 134557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36717-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 134629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36717-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-134629/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-134629/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-134629/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 134886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36717-1	Levey Well	Total/NA	Water	SM 1030E	

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Lab Chronicle

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

Job ID: 880-36717-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-36717-1

Date Collected: 12/08/23 12:17

Matrix: Water

Date Received: 12/08/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	134475	NA	EET HOU	12/11/23 11:57
Total/NA	Analysis	300.0		1	134468	WP	EET HOU	12/09/23 21:16
Total/NA	Analysis	300.0		1	134469	WP	EET HOU	12/09/23 21:16
Total Recoverable	Prep	200.7			134528	PB	EET HOU	12/11/23 10:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	134714	JDM	EET HOU	12/11/23 18:34
Total Recoverable	Prep	200.7			134528	PB	EET HOU	12/11/23 10:01
Total Recoverable	Analysis	200.7 Rev 4.4		50	134714	JDM	EET HOU	12/11/23 18:48
Total/NA	Analysis	SM 1030E		1	134886	MC	EET HOU	12/12/23 20:01
Total/NA	Analysis	SM 2320B		1	134629	KEG	EET HOU	12/11/23 14:39
Total/NA	Analysis	SM 2540C		1	134534	SA	EET HOU	12/11/23 10:18
Total/NA	Analysis	SM 4500 H+ B		1	134557	KEG	EET HOU	12/11/23 11:12

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: 880-36717-1
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: 880-36717-1
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: 880-36717-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36717-1	Levey Well	Water	12/08/23 12:17	12/08/23 15:10

- 1
- 2
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Chain of Custody

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

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

Bill to (if different)

880-36717 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

880-36717 Chain of Custody

Program: UST/PT ☐ PPP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other ☐

[illegible]

SAMPLE RECEIPT			
Temp Blank:	Yes	No	Wet Ice: Yes No
Temperature (°C):	Thermometer ID		
Received Intact:	Yes	No	
Cooler Custody Seals:	Yes	No	Correction Factor: 1.20
Sample Custody Seals:	Yes	No	Total Containers:

Sample Identification						Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions:	Cations:	pH	Alkalinity	TDS	Sample Comments	
Levey Well						GW	12-8-23	1217		7	X	X	X	X	X	X		24hr
SL 12-8-23 ATC																		

Total 200.7 / 6010 200.8 / 6020:

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

TC/LP/SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631/245.1/7470/7471 Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		12/8/23	2		
3 		15/10	4		
5			6		



Environment Testing
Xenoco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 986-3199

Chain of Custody

Work Order No: _____

Loc: 880
36714

www.xenco.com Pa

Project Manager	Daniel Sparks		Bill to: (if different)	
Company Name:	Stankor Safety & Supply		Company Name:	
Address:	2524 Trunk Rd.		Address:	
City/State/Zip:	Dades3a, TX 79761		City/State/Zip	
Phone	512-734-2325	Email	daniel.sparks@stankor.tx.com	

Work Order Comment	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	T ☒ X ☐
Reporting	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EBD ☐ ADAPT ☐ Other ☐

Project Name:		Mygreen S.O		Turn Around			
Project Number:				☒ Routine ☐ Rush			
Project Location:		Pearson, TX		Due Date:			
Sampler's Name:		Daniel Sparks		TAT starts the day received by the lab. if received by 4:30pm			
PO #							
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice	
Samples Received Intact:		Yes No		Thermometer ID:		Yes No	
Cooler Custody Seals:		Yes No N/A		Correction Factor:			
Sample Custody Seals:		Yes No N/A		Temperature Reading			
Total Containers:				Corrected Temperature:			
Parameters							
Pres. Code TX-1005							
ANALYSIS REQUEST							
Preservative Codes							
None NO DI Water H ₂ O Cool Cool MeOH Me HCL, HC HNO ₃ HN H ₂ SO ₄ , H ₂ NaOH Na H ₃ PO ₄ HP NaHSO ₄ NABIS Na ₂ S ₂ O ₃ NaSO ₃ Zn Acetate+NaOH Zn NaOH+Ascorbic Acid CAPC							

[illegible]

Circle Method(s) and Metal(s) to be analyzed	200.8/6020:	200.7/6010
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	
TC1P/SPUP 6010	8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ii U	Hq 1631 /245.1 /7470 /7471

Notice: Signature of this document is relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client's third losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 		12-8-23/11:18	2		
3		1433	4		
5			6		

Eurofins Midland

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

Chain of Custody Record



Environmant Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-36717-1

SDG Number: Hobbs NM

Login Number: 36717

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: 880-36717-1

SDG Number: Hobbs NM

Login Number: 36717

List Number: 2

Creator: Torres, Sandra

List Source: Eurofins Houston

List Creation: 12/09/23 11:07 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8
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 12/19/2023 8:58:19 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-36779-1

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
12/19/2023 8:58:19 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: 880-36779-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-36779-1
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
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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-36779-1

Job ID: 880-36779-1

Eurofins Midland

Job Narrative 880-36779-1

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 12/11/2023 3:27 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-134810 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: Due to the high concentration of 1,2-Dichloroethane and Vinyl chloride, the matrix spike (MS) for analytical batch 860-134810 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-134801 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-134802 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

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.

Eurofins Midland

Client Sample Results

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

Job ID: 880-36779-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-36779-1

Date Collected: 12/11/23 10:30

Matrix: Water

Date Received: 12/11/23 15:27

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00443		0.00100	0.000460	mg/L		12/13/23 03:32	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		12/13/23 03:32	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		12/13/23 03:32	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		12/13/23 03:32	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		12/13/23 03:32	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		12/13/23 03:32	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		12/13/23 03:32	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		12/13/23 03:32	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		12/13/23 03:32	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		12/13/23 03:32	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		12/13/23 03:32	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		12/13/23 03:32	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		12/13/23 03:32	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		12/13/23 03:32	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		12/13/23 03:32	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		12/13/23 03:32	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		12/13/23 03:32	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		12/13/23 03:32	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		12/13/23 03:32	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		12/13/23 03:32	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		12/13/23 03:32	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		12/13/23 03:32	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		12/13/23 03:32	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		12/13/23 03:32	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		12/13/23 03:32	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		12/13/23 03:32	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		12/13/23 03:32	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		12/13/23 03:32	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		12/13/23 03:32	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		12/13/23 03:32	1
Ethylbenzene	0.0154		0.00100	0.000385	mg/L		12/13/23 03:32	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		12/13/23 03:32	1
Isopropylbenzene	0.00753		0.00100	0.000592	mg/L		12/13/23 03:32	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		12/13/23 03:32	1
m,p-Xylenes	0.0630		0.0100	0.00124	mg/L		12/13/23 03:32	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		12/13/23 03:32	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		12/13/23 03:32	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		12/13/23 03:32	1
N-Propylbenzene	0.00337		0.00100	0.000429	mg/L		12/13/23 03:32	1
o-Xylene	0.0103		0.00100	0.000502	mg/L		12/13/23 03:32	1
p-Cymene (p-Isopropyltoluene)	0.000794	J	0.00100	0.000676	mg/L		12/13/23 03:32	1
sec-Butylbenzene	0.00141		0.00100	0.000468	mg/L		12/13/23 03:32	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		12/13/23 03:32	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		12/13/23 03:32	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		12/13/23 03:32	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		12/13/23 03:32	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		12/13/23 03:32	1
Toluene	0.0297		0.00100	0.000475	mg/L		12/13/23 03:32	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		12/13/23 03:32	1

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Client Sample Results

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

Job ID: 880-36779-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-36779-1
Date Collected: 12/11/23 10:30 Matrix: Water
Date Received: 12/11/23 15:27

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/13/23 03:32	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			12/13/23 03:32	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/13/23 03:32	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			12/13/23 03:32	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			12/13/23 03:32	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			12/13/23 03:32	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			12/13/23 03:32	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			12/13/23 03:32	1
1,2,4-Trimethylbenzene	0.0154		0.00100	0.000417 mg/L			12/13/23 03:32	1
1,3,5-Trimethylbenzene	0.00439		0.00100	0.000411 mg/L			12/13/23 03:32	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			12/13/23 03:32	1
Xylenes, Total	0.0733		0.0100	0.00124 mg/L			12/13/23 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124				12/13/23 03:32	1
Dibromofluoromethane (Surr)	100		75 - 131				12/13/23 03:32	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				12/13/23 03:32	1
Toluene-d8 (Surr)	100		80 - 120				12/13/23 03:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.640		0.500	0.0711 mg/L			12/13/23 02:01	1
Nitrate as N	0.157		0.100	0.0391 mg/L			12/13/23 02:01	1
Chloride	226		0.500	0.250 mg/L			12/13/23 02:01	1
Nitrite as N	0.660		0.100	0.0293 mg/L			12/13/23 02:01	1
Fluoride	0.564		0.500	0.100 mg/L			12/13/23 02:01	1
Sulfate	49.7		0.500	0.200 mg/L			12/13/23 02:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	272		10.0	5.76 mg/L		12/13/23 11:00	12/13/23 20:56	50
Magnesium	52.6		0.200	0.0428 mg/L		12/13/23 11:00	12/13/23 20:38	1
Potassium	4.53		0.500	0.0914 mg/L		12/13/23 11:00	12/13/23 20:38	1
Sodium	84.9		0.500	0.152 mg/L		12/13/23 11:00	12/13/23 20:38	1
SiO2	65.3		1.07	0.471 mg/L		12/13/23 11:00	12/13/23 20:38	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-2.23			%			12/19/23 20:01	1
Alkalinity (SM 2320B)	652		4.00	4.00 mg/L			12/13/23 21:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	652		4.00	4.00 mg/L			12/13/23 21:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/13/23 21:39	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/13/23 21:39	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/13/23 21:39	1
Total Dissolved Solids (SM 2540C)	1280		10.0	10.0 mg/L			12/13/23 09:53	1
pH (SM 4500 H+ B)	6.5	HF		SU			12/13/23 12:54	1
Temperature (SM 4500 H+ B)	20.4	HF		Celsius			12/13/23 12:54	1

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Surrogate Summary

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

Job ID: 880-36779-1
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)
880-36779-1	Levey Well	101	100	99	100
LCS 860-134810/3	Lab Control Sample	98	99	96	98
LCSD 860-134810/4	Lab Control Sample Dup	100	103	96	99
MB 860-134810/9	Method Blank	100	100	102	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: 880-36779-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-134810/9

Matrix: Water

Analysis Batch: 134810

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			12/12/23 21:22	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			12/12/23 21:22	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			12/12/23 21:22	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/12/23 21:22	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/12/23 21:22	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/12/23 21:22	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/12/23 21:22	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/12/23 21:22	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			12/12/23 21:22	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/12/23 21:22	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			12/12/23 21:22	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/12/23 21:22	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			12/12/23 21:22	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			12/12/23 21:22	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			12/12/23 21:22	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/12/23 21:22	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/12/23 21:22	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			12/12/23 21:22	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/12/23 21:22	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			12/12/23 21:22	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			12/12/23 21:22	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			12/12/23 21:22	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			12/12/23 21:22	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/12/23 21:22	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			12/12/23 21:22	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/12/23 21:22	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			12/12/23 21:22	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/12/23 21:22	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			12/12/23 21:22	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			12/12/23 21:22	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			12/12/23 21:22	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			12/12/23 21:22	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			12/12/23 21:22	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/12/23 21:22	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/12/23 21:22	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/12/23 21:22	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/12/23 21:22	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			12/12/23 21:22	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			12/12/23 21:22	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			12/12/23 21:22	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			12/12/23 21:22	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/12/23 21:22	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			12/12/23 21:22	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/12/23 21:22	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/12/23 21:22	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/12/23 21:22	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			12/12/23 21:22	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/12/23 21:22	1

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QC Sample Results

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

Job ID: 880-36779-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-134810/9

Matrix: Water

Analysis Batch: 134810

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		12/12/23 21:22	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		12/12/23 21:22	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		12/12/23 21:22	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		12/12/23 21:22	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		12/12/23 21:22	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		12/12/23 21:22	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		12/12/23 21:22	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		12/12/23 21:22	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		12/12/23 21:22	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		12/12/23 21:22	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		12/12/23 21:22	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		12/12/23 21:22	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		12/12/23 21:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		12/12/23 21:22	1
Dibromofluoromethane (Surr)	100		75 - 131		12/12/23 21:22	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		12/12/23 21:22	1
Toluene-d8 (Surr)	99		80 - 120		12/12/23 21:22	1

Lab Sample ID: LCS 860-134810/3

Matrix: Water

Analysis Batch: 134810

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	0.04226		mg/L		85	75 - 125
Bromobenzene	0.0500	0.04390		mg/L		88	75 - 125
Bromochloromethane	0.0500	0.04674		mg/L		93	60 - 140
Bromodichloromethane	0.0500	0.04485		mg/L		90	75 - 125
Bromoform	0.0500	0.05040		mg/L		101	70 - 130
Bromomethane	0.0500	0.04754		mg/L		95	60 - 140
2-Butanone	0.250	0.2829		mg/L		113	60 - 140
Carbon tetrachloride	0.0500	0.03972		mg/L		79	70 - 130
Chlorobenzene	0.0500	0.04321		mg/L		86	65 - 135
Chloroethane	0.0500	0.04698		mg/L		94	60 - 140
Chloroform	0.0500	0.04270		mg/L		85	70 - 121
Chloromethane	0.0500	0.04431		mg/L		89	60 - 140
2-Chlorotoluene	0.0500	0.04227		mg/L		85	73 - 125
4-Chlorotoluene	0.0500	0.04245		mg/L		85	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04231		mg/L		85	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04574		mg/L		91	74 - 125
Dibromochloromethane	0.0500	0.04758		mg/L		95	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05474		mg/L		109	59 - 125
1,2-Dibromoethane	0.0500	0.04943		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.04454		mg/L		89	75 - 125
1,3-Dichlorobenzene	0.0500	0.04337		mg/L		87	75 - 125
1,4-Dichlorobenzene	0.0500	0.04323		mg/L		86	75 - 125
Dichlorodifluoromethane	0.0500	0.03745		mg/L		75	50 - 150

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QC Sample Results

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

Job ID: 880-36779-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-134810/3

Matrix: Water

Analysis Batch: 134810

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
1,1-Dichloroethane	0.0500	0.04137		mg/L		83	70 - 130
1,2-Dichloroethane	0.0500	0.04565		mg/L		91	72 - 130
1,1-Dichloroethene	0.0500	0.03851		mg/L		77	50 - 150
1,2-Dichloropropane	0.0500	0.04457		mg/L		89	74 - 125
1,3-Dichloropropane	0.0500	0.04840		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.03980		mg/L		80	75 - 125
1,1-Dichloropropene	0.0500	0.04016		mg/L		80	75 - 125
Ethylbenzene	0.0500	0.04289		mg/L		86	75 - 125
Hexachlorobutadiene	0.0500	0.04112		mg/L		82	75 - 125
Isopropylbenzene	0.0500	0.04382		mg/L		88	75 - 125
Methylene Chloride	0.0500	0.04367		mg/L		87	71 - 125
m,p-Xylenes	0.0500	0.04314		mg/L		86	75 - 125
MTBE	0.0500	0.04754		mg/L		95	65 - 135
Naphthalene	0.0500	0.05119		mg/L		102	70 - 130
n-Butylbenzene	0.0500	0.04206		mg/L		84	75 - 125
N-Propylbenzene	0.0500	0.04163		mg/L		83	75 - 125
o-Xylene	0.0500	0.04376		mg/L		88	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04264		mg/L		85	75 - 125
sec-Butylbenzene	0.0500	0.04215		mg/L		84	75 - 125
Styrene	0.0500	0.04499		mg/L		90	75 - 125
tert-Butylbenzene	0.0500	0.04253		mg/L		85	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04459		mg/L		89	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04757		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.04248		mg/L		85	71 - 125
Toluene	0.0500	0.04246		mg/L		85	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04041		mg/L		81	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04780		mg/L		96	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04640		mg/L		93	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04569		mg/L		91	75 - 135
1,1,1-Trichloroethane	0.0500	0.04070		mg/L		81	70 - 130
1,1,2-Trichloroethane	0.0500	0.04851		mg/L		97	70 - 130
Trichloroethene	0.0500	0.04402		mg/L		88	75 - 135
Trichlorofluoromethane	0.0500	0.04613		mg/L		92	60 - 140
1,2,3-Trichloropropane	0.0500	0.05081		mg/L		102	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04391		mg/L		88	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04265		mg/L		85	60 - 140
Vinyl chloride	0.0500	0.04540		mg/L		91	60 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	98		80 - 120

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QC Sample Results

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

Job ID: 880-36779-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-134810/4

Matrix: Water

Analysis Batch: 134810

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	0.04580		mg/L		92	75 - 125	8	25
Bromobenzene	0.0500	0.04746		mg/L		95	75 - 125	8	25
Bromochloromethane	0.0500	0.05252		mg/L		105	60 - 140	12	25
Bromodichloromethane	0.0500	0.04757		mg/L		95	75 - 125	6	25
Bromoform	0.0500	0.05083		mg/L		102	70 - 130	1	25
Bromomethane	0.0500	0.05491		mg/L		110	60 - 140	14	25
2-Butanone	0.250	0.2835		mg/L		113	60 - 140	0	25
Carbon tetrachloride	0.0500	0.04913		mg/L		98	70 - 130	21	25
Chlorobenzene	0.0500	0.04643		mg/L		93	65 - 135	7	25
Chloroethane	0.0500	0.05682		mg/L		114	60 - 140	19	25
Chloroform	0.0500	0.05006		mg/L		100	70 - 121	16	25
Chloromethane	0.0500	0.05300		mg/L		106	60 - 140	18	25
2-Chlorotoluene	0.0500	0.04674		mg/L		93	73 - 125	10	25
4-Chlorotoluene	0.0500	0.04672		mg/L		93	74 - 125	10	25
cis-1,2-Dichloroethene	0.0500	0.05026		mg/L		101	75 - 125	17	25
cis-1,3-Dichloropropene	0.0500	0.04927		mg/L		99	74 - 125	7	25
Dibromochloromethane	0.0500	0.04911		mg/L		98	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05458		mg/L		109	59 - 125	0	25
1,2-Dibromoethane	0.0500	0.04987		mg/L		100	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04800		mg/L		96	75 - 125	7	25
1,3-Dichlorobenzene	0.0500	0.04718		mg/L		94	75 - 125	8	25
1,4-Dichlorobenzene	0.0500	0.04631		mg/L		93	75 - 125	7	25
Dichlorodifluoromethane	0.0500	0.04767		mg/L		95	50 - 150	24	25
1,1-Dichloroethane	0.0500	0.04331		mg/L		87	70 - 130	5	25
1,2-Dichloroethane	0.0500	0.04664		mg/L		93	72 - 130	2	25
1,1-Dichloroethene	0.0500	0.04816		mg/L		96	50 - 150	22	25
1,2-Dichloropropane	0.0500	0.04794		mg/L		96	74 - 125	7	25
1,3-Dichloropropane	0.0500	0.04842		mg/L		97	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.04567		mg/L		91	75 - 125	14	25
1,1-Dichloropropene	0.0500	0.04919		mg/L		98	75 - 125	20	25
Ethylbenzene	0.0500	0.04652		mg/L		93	75 - 125	8	25
Hexachlorobutadiene	0.0500	0.04540		mg/L		91	75 - 125	10	25
Isopropylbenzene	0.0500	0.04745		mg/L		95	75 - 125	8	25
Methylene Chloride	0.0500	0.04010		mg/L		80	71 - 125	9	25
m,p-Xylenes	0.0500	0.04640		mg/L		93	75 - 125	7	25
MTBE	0.0500	0.04496		mg/L		90	65 - 135	6	25
Naphthalene	0.0500	0.05308		mg/L		106	70 - 130	4	25
n-Butylbenzene	0.0500	0.04615		mg/L		92	75 - 125	9	25
N-Propylbenzene	0.0500	0.04701		mg/L		94	75 - 125	12	25
o-Xylene	0.0500	0.04736		mg/L		95	75 - 125	8	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04671		mg/L		93	75 - 125	9	25
sec-Butylbenzene	0.0500	0.04673		mg/L		93	75 - 125	10	25
Styrene	0.0500	0.04794		mg/L		96	75 - 125	6	25
tert-Butylbenzene	0.0500	0.04708		mg/L		94	75 - 125	10	25
1,1,1,2-Tetrachloroethane	0.0500	0.04751		mg/L		95	72 - 125	6	25
1,1,2,2-Tetrachloroethane	0.0500	0.04910		mg/L		98	74 - 125	3	25
Tetrachloroethene	0.0500	0.04605		mg/L		92	71 - 125	8	25
Toluene	0.0500	0.04618		mg/L		92	70 - 130	8	25

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QC Sample Results

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

Job ID: 880-36779-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-134810/4

Matrix: Water

Analysis Batch: 134810

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	0.04301		mg/L		86	75 - 125		6	25
trans-1,3-Dichloropropene	0.0500	0.04852		mg/L		97	66 - 125		2	25
1,2,3-Trichlorobenzene	0.0500	0.04967		mg/L		99	75 - 137		7	25
1,2,4-Trichlorobenzene	0.0500	0.04846		mg/L		97	75 - 135		6	25
1,1,1-Trichloroethane	0.0500	0.04738		mg/L		95	70 - 130		15	25
1,1,2-Trichloroethane	0.0500	0.04887		mg/L		98	70 - 130		1	25
Trichloroethene	0.0500	0.04918		mg/L		98	75 - 135		11	25
Trichlorofluoromethane	0.0500	0.05615		mg/L		112	60 - 140		20	25
1,2,3-Trichloropropane	0.0500	0.05068		mg/L		101	75 - 125		0	25
1,2,4-Trimethylbenzene	0.0500	0.04835		mg/L		97	75 - 125		10	25
1,3,5-Trimethylbenzene	0.0500	0.04680		mg/L		94	60 - 140		9	25
Vinyl chloride	0.0500	0.05229		mg/L		105	60 - 140		14	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	99		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-134801/13

Matrix: Water

Analysis Batch: 134801

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			12/12/23 21:36	1
Chloride	<0.250	U	0.500	0.250 mg/L			12/12/23 21:36	1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/12/23 21:36	1
Sulfate	<0.200	U	0.500	0.200 mg/L			12/12/23 21:36	1

Lab Sample ID: LCS 860-134801/14

Matrix: Water

Analysis Batch: 134801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Bromide	5.00	4.891		mg/L		98	90 - 110	
Chloride	5.00	4.992		mg/L		100	90 - 110	
Fluoride	5.00	5.316		mg/L		106	90 - 110	
Sulfate	5.00	4.916		mg/L		98	90 - 110	

Lab Sample ID: LCSD 860-134801/15

Matrix: Water

Analysis Batch: 134801

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	5.00	5.005		mg/L		100	90 - 110		2	20
Chloride	5.00	5.087		mg/L		102	90 - 110		2	20
Fluoride	5.00	5.404		mg/L		108	90 - 110		2	20

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QC Sample Results

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

Job ID: 880-36779-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-134801/15

Matrix: Water

Analysis Batch: 134801

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	5.00	5.049		mg/L		101	90 - 110	3	20

Lab Sample ID: LLCS 860-134801/17

Matrix: Water

Analysis Batch: 134801

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	0.5518		mg/L		110	50 - 150		
Fluoride	0.500	0.4971	J	mg/L		99	50 - 150		
Sulfate	0.500	0.4770	J	mg/L		95	50 - 150		

Lab Sample ID: MB 860-134802/13

Matrix: Water

Analysis Batch: 134802

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			12/12/23 21:36	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/12/23 21:36	1

Lab Sample ID: LCS 860-134802/14

Matrix: Water

Analysis Batch: 134802

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	5.00	4.907		mg/L		98	80 - 120		
Nitrite as N	5.00	4.991		mg/L		100	80 - 120		

Lab Sample ID: LCSD 860-134802/15

Matrix: Water

Analysis Batch: 134802

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	5.00	5.001		mg/L		100	80 - 120	2	20
Nitrite as N	5.00	5.091		mg/L		102	80 - 120	2	20

Lab Sample ID: LLCS 860-134802/16

Matrix: Water

Analysis Batch: 134802

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	0.1449		mg/L		145	50 - 150		
Nitrite as N	0.100	0.1186		mg/L		119	50 - 150		

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QC Sample Results

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

Job ID: 880-36779-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-134986/1-A

Matrix: Water

Analysis Batch: 135152

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 134986

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		12/13/23 11:00	12/13/23 18:35	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		12/13/23 11:00	12/13/23 18:35	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		12/13/23 11:00	12/13/23 18:35	1
Sodium	<0.152	U	0.500	0.152 mg/L		12/13/23 11:00	12/13/23 18:35	1
SiO2	<0.471	U	1.07	0.471 mg/L		12/13/23 11:00	12/13/23 18:35	1

Lab Sample ID: LCS 860-134986/2-A

Matrix: Water

Analysis Batch: 135152

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.20		mg/L		101	85 - 115
Magnesium	25.0	24.90		mg/L		100	85 - 115
Potassium	10.0	10.10		mg/L		101	85 - 115
Sodium	25.0	25.00		mg/L		100	85 - 115
SiO2	21.4	21.83		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-134986/3-A

Matrix: Water

Analysis Batch: 135152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 134986

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.90		mg/L		100	85 - 115	1	20
Magnesium	25.0	24.60		mg/L		98	85 - 115	1	20
Potassium	10.0	10.00		mg/L		100	85 - 115	1	20
Sodium	25.0	25.30		mg/L		101	85 - 115	1	20
SiO2	21.4	21.61		mg/L		101	85 - 115	1	20

Lab Sample ID: LLCS 860-134986/4-A

Matrix: Water

Analysis Batch: 135152

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134986

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2320		mg/L		116	50 - 150
Magnesium	0.200	0.2390		mg/L		120	50 - 150
Potassium	0.500	0.5970		mg/L		119	50 - 150
Sodium	0.500	0.5610		mg/L		112	50 - 150
SiO2	1.07	1.211		mg/L		113	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-135137/65

Matrix: Water

Analysis Batch: 135137

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			12/13/23 19:58	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/13/23 19:58	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/13/23 19:58	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			12/13/23 19:58	1

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QC Sample Results

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

Job ID: 880-36779-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-135137/65					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 135137									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			12/13/23 19:58	1	

Lab Sample ID: LCS 860-135137/66					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 135137									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity	250	258.5		mg/L		103	85 - 115		

Lab Sample ID: LCSD 860-135137/67					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 135137									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	263.7		mg/L		105	85 - 115	2	20

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

Lab Sample ID: MB 860-134958/1					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 134958									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			12/13/23 09:53	1	

Lab Sample ID: LCS 860-134958/2					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 134958									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	1000	996.0		mg/L		100	80 - 120		

Lab Sample ID: LCSD 860-134958/3					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 134958									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1004		mg/L		100	80 - 120	1	10

QC Association Summary

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

Job ID: 880-36779-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 134810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36779-1	Levey Well	Total/NA	Water	8260C	
MB 860-134810/9	Method Blank	Total/NA	Water	8260C	
LCS 860-134810/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-134810/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 134801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36779-1	Levey Well	Total/NA	Water	300.0	
MB 860-134801/13	Method Blank	Total/NA	Water	300.0	
LCS 860-134801/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-134801/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-134801/17	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 134802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36779-1	Levey Well	Total/NA	Water	300.0	
MB 860-134802/13	Method Blank	Total/NA	Water	300.0	
LCS 860-134802/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-134802/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-134802/16	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 134986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36779-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-134986/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-134986/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-134986/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-134986/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 135152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36779-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	134986
880-36779-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	134986
MB 860-134986/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	134986
LCS 860-134986/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	134986
LCSD 860-134986/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	134986
LLCS 860-134986/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	134986

General Chemistry

Analysis Batch: 134886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36779-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 134958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36779-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-134958/1	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: 880-36779-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 134958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-134958/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-134958/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 135014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36779-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 135137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36779-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-135137/65	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-135137/66	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-135137/67	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-36779-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-36779-1

Date Collected: 12/11/23 10:30

Matrix: Water

Date Received: 12/11/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	134810	NA	EET HOU	12/13/23 03:32
Total/NA	Analysis	300.0		1	134801	RBNS	EET HOU	12/13/23 02:01
Total/NA	Analysis	300.0		1	134802	A1S	EET HOU	12/13/23 02:01
Total Recoverable	Prep	200.7			134986	MD	EET HOU	12/13/23 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	135152	JDM	EET HOU	12/13/23 20:38
Total Recoverable	Prep	200.7			134986	MD	EET HOU	12/13/23 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	135152	JDM	EET HOU	12/13/23 20:56
Total/NA	Analysis	SM 1030E		1	134886	MC	EET HOU	12/19/23 20:01
Total/NA	Analysis	SM 2320B		1	135137	KEG	EET HOU	12/13/23 21:39
Total/NA	Analysis	SM 2540C		1	134958	SA	EET HOU	12/13/23 09:53
Total/NA	Analysis	SM 4500 H+ B		1	135014	KEG	EET HOU	12/13/23 12:54

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: 880-36779-1
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: 880-36779-1
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: 880-36779-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36779-1	Levey Well	Water	12/11/23 10:30	12/11/23 15:27

- 1
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Chain of Custody

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

Wor



380-36779 Chain of Custody

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

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other ☐

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

SAMPLE RECEIPT							
Temperature (°C):	Temp Blank:	Yes No	Wet Ice:	Yes No			
Received Intact:	(Yes) No	Thermometer ID					
Cooler Custody Seals:	Yes No N/A	Correction Factor: 1.20					
Sample Custody Seals:	Yes No N/A	Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
Levey Well	GW	12-11-23	1030	-

ANALYSIS REQUEST																	
Number of Containers						VOCs	X	Anions: F, Cl, SO ₄ , B	X	Cations: Ca, K, Mg, Na, Si	X	pH	X	Alkalinity	X	TDS	X
Work Order Notes																	
TAT starts the day received by the lab If received by 4 30pm																	
Sample Comments																	
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				

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
1			12/1/23			
3			1527			
5						
6						

Revised Date 051418 Rev 2018 1

Eurofins Midland

1211 W Florida Ave

Phone: 432-704-5440

Chain of Custody Record



Environmental Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-36779-1

SDG Number: Hobbs NM

Login Number: 36779

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: 880-36779-1

SDG Number: Hobbs NM

Login Number: 36779

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 12/12/23 02:31 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/30/2023 3:28:27 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-37093-1

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
12/30/2023 3:28:27 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: 880-37093-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-37093-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. 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
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	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)

Definitions/Glossary

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

Job ID: 880-37093-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-37093-1

Job ID: 880-37093-1

Eurofins Midland

Job Narrative 880-37093-1

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 12/18/2023 4:30 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 5.6°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-136273 contained Chloride and Sulfate 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_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-136273 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-136274 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFMS: The following sample was received outside of holding time: Levey Well (880-37093-1).

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

Metals

Method 200.7: The method blank for preparation batch 860-135313 and 860-136770 and analytical batch 860-138598 contained Potassium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 200.7: The following sample was diluted due to the nature of the sample matrix: Levey Well (880-37093-1). Elevated reporting limits (RLs) are provided.

Method 200.7: Due to the high concentration of Calcium and Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-136770 and analytical batch 860-138598 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.

Eurofins Midland

Client Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-37093-1

Date Collected: 12/18/23 13:45

Matrix: Water

Date Received: 12/18/23 16:30

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		12/22/23 14:37	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		12/22/23 14:37	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		12/22/23 14:37	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		12/22/23 14:37	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		12/22/23 14:37	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		12/22/23 14:37	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		12/22/23 14:37	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		12/22/23 14:37	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		12/22/23 14:37	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		12/22/23 14:37	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		12/22/23 14:37	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		12/22/23 14:37	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		12/22/23 14:37	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		12/22/23 14:37	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		12/22/23 14:37	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		12/22/23 14:37	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		12/22/23 14:37	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		12/22/23 14:37	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		12/22/23 14:37	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		12/22/23 14:37	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		12/22/23 14:37	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		12/22/23 14:37	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		12/22/23 14:37	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		12/22/23 14:37	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		12/22/23 14:37	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		12/22/23 14:37	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		12/22/23 14:37	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		12/22/23 14:37	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		12/22/23 14:37	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		12/22/23 14:37	1
Ethylbenzene	0.00137		0.00100	0.000385	mg/L		12/22/23 14:37	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		12/22/23 14:37	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		12/22/23 14:37	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		12/22/23 14:37	1
m,p-Xylenes	0.00614	J	0.0100	0.00124	mg/L		12/22/23 14:37	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		12/22/23 14:37	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		12/22/23 14:37	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		12/22/23 14:37	1
N-Propylbenzene	0.000466	J	0.00100	0.000429	mg/L		12/22/23 14:37	1
o-Xylene	0.00224		0.00100	0.000502	mg/L		12/22/23 14:37	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		12/22/23 14:37	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		12/22/23 14:37	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		12/22/23 14:37	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		12/22/23 14:37	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		12/22/23 14:37	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		12/22/23 14:37	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		12/22/23 14:37	1
Toluene	0.00445		0.00100	0.000475	mg/L		12/22/23 14:37	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		12/22/23 14:37	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-37093-1
Date Collected: 12/18/23 13:45 Matrix: Water
Date Received: 12/18/23 16:30

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			12/22/23 14:37	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			12/22/23 14:37	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/22/23 14:37	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			12/22/23 14:37	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			12/22/23 14:37	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			12/22/23 14:37	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			12/22/23 14:37	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			12/22/23 14:37	1
1,2,4-Trimethylbenzene	0.00300		0.00100	0.000417 mg/L			12/22/23 14:37	1
1,3,5-Trimethylbenzene	0.00124		0.00100	0.000411 mg/L			12/22/23 14:37	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			12/22/23 14:37	1
Xylenes, Total	0.00838	J	0.0100	0.00124 mg/L			12/22/23 14:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		74 - 124				12/22/23 14:37	1
Dibromofluoromethane (Surr)	96		75 - 131				12/22/23 14:37	1
1,2-Dichloroethane-d4 (Surr)	90		63 - 144				12/22/23 14:37	1
Toluene-d8 (Surr)	106		80 - 120				12/22/23 14:37	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.525		0.500	0.0711 mg/L			12/21/23 20:20	1
Nitrate as N	0.125	H	0.100	0.0391 mg/L			12/21/23 20:20	1
Chloride	234		0.500	0.250 mg/L			12/21/23 20:20	1
Nitrite as N	<0.0293	U H	0.100	0.0293 mg/L			12/21/23 20:20	1
Fluoride	0.825		0.500	0.100 mg/L			12/21/23 20:20	1
Sulfate	43.2		0.500	0.200 mg/L			12/21/23 20:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	188		1.00	0.576 mg/L		12/27/23 10:30	12/28/23 19:04	5
Magnesium	39.9		1.00	0.214 mg/L		12/27/23 10:30	12/28/23 19:04	5
Potassium	2.85	B	2.50	0.457 mg/L		12/27/23 10:30	12/28/23 19:04	5
Sodium	72.0		2.50	0.759 mg/L		12/27/23 10:30	12/28/23 19:04	5
SiO2	61.0		5.35	2.35 mg/L		12/27/23 10:30	12/28/23 19:04	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-8.07			%			12/27/23 10:01	1
Alkalinity (SM 2320B)	454		4.00	4.00 mg/L			12/22/23 11:06	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	454		4.00	4.00 mg/L			12/22/23 11:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/22/23 11:06	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/22/23 11:06	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/22/23 11:06	1
Total Dissolved Solids (SM 2540C)	1140		10.0	10.0 mg/L			12/22/23 09:41	1
pH (SM 4500 H+ B)	7.2	HF		SU			12/22/23 11:03	1
Temperature (SM 4500 H+ B)	20.6	HF		Celsius			12/22/23 11:03	1

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Surrogate Summary

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

Job ID: 880-37093-1
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)
880-37093-1	Levey Well	108	96	90	106
LCS 860-136416/3	Lab Control Sample	93	99	93	98
LCSD 860-136416/4	Lab Control Sample Dup	92	99	91	98
MB 860-136416/9	Method Blank	95	98	94	97
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-136416/9

Matrix: Water

Analysis Batch: 136416

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			12/22/23 13:36	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			12/22/23 13:36	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			12/22/23 13:36	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/22/23 13:36	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/22/23 13:36	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/22/23 13:36	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/22/23 13:36	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/22/23 13:36	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			12/22/23 13:36	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/22/23 13:36	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			12/22/23 13:36	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/22/23 13:36	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			12/22/23 13:36	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			12/22/23 13:36	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			12/22/23 13:36	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/22/23 13:36	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/22/23 13:36	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			12/22/23 13:36	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/22/23 13:36	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			12/22/23 13:36	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			12/22/23 13:36	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			12/22/23 13:36	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			12/22/23 13:36	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/22/23 13:36	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			12/22/23 13:36	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/22/23 13:36	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			12/22/23 13:36	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/22/23 13:36	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			12/22/23 13:36	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			12/22/23 13:36	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			12/22/23 13:36	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			12/22/23 13:36	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			12/22/23 13:36	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/22/23 13:36	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/22/23 13:36	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/22/23 13:36	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/22/23 13:36	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			12/22/23 13:36	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			12/22/23 13:36	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			12/22/23 13:36	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			12/22/23 13:36	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/22/23 13:36	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			12/22/23 13:36	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/22/23 13:36	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/22/23 13:36	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/22/23 13:36	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			12/22/23 13:36	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/22/23 13:36	1

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QC Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-136416/9
Matrix: Water
Analysis Batch: 136416

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		12/22/23 13:36	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		12/22/23 13:36	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		12/22/23 13:36	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		12/22/23 13:36	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		12/22/23 13:36	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		12/22/23 13:36	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		12/22/23 13:36	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		12/22/23 13:36	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		12/22/23 13:36	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		12/22/23 13:36	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		12/22/23 13:36	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		12/22/23 13:36	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		12/22/23 13:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		74 - 124		12/22/23 13:36	1
Dibromofluoromethane (Surr)	98		75 - 131		12/22/23 13:36	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 144		12/22/23 13:36	1
Toluene-d8 (Surr)	97		80 - 120		12/22/23 13:36	1

Lab Sample ID: LCS 860-136416/3
Matrix: Water
Analysis Batch: 136416

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Benzene	0.0500	0.04864		mg/L		97	75 - 125
Bromobenzene	0.0500	0.04880		mg/L		98	75 - 125
Bromochloromethane	0.0500	0.05091		mg/L		102	60 - 140
Bromodichloromethane	0.0500	0.04913		mg/L		98	75 - 125
Bromoform	0.0500	0.05420		mg/L		108	70 - 130
Bromomethane	0.0500	0.04880		mg/L		98	60 - 140
2-Butanone	0.250	0.2329		mg/L		93	60 - 140
Carbon tetrachloride	0.0500	0.04787		mg/L		96	70 - 130
Chlorobenzene	0.0500	0.04983		mg/L		100	65 - 135
Chloroethane	0.0500	0.04262		mg/L		85	60 - 140
Chloroform	0.0500	0.04711		mg/L		94	70 - 121
Chloromethane	0.0500	0.04349		mg/L		87	60 - 140
2-Chlorotoluene	0.0500	0.04634		mg/L		93	73 - 125
4-Chlorotoluene	0.0500	0.04580		mg/L		92	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04618		mg/L		92	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04973		mg/L		99	74 - 125
Dibromochloromethane	0.0500	0.05263		mg/L		105	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05123		mg/L		102	59 - 125
1,2-Dibromoethane	0.0500	0.05065		mg/L		101	73 - 125
1,2-Dichlorobenzene	0.0500	0.04813		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04848		mg/L		97	75 - 125
1,4-Dichlorobenzene	0.0500	0.04812		mg/L		96	75 - 125
Dichlorodifluoromethane	0.0500	0.04215		mg/L		84	50 - 150

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QC Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-136416/3

Matrix: Water

Analysis Batch: 136416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	%Rec				
	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethane	0.0500	0.04183		mg/L		84	70 - 130
1,2-Dichloroethane	0.0500	0.04714		mg/L		94	72 - 130
1,1-Dichloroethene	0.0500	0.04326		mg/L		87	50 - 150
1,2-Dichloropropane	0.0500	0.04776		mg/L		96	74 - 125
1,3-Dichloropropane	0.0500	0.04799		mg/L		96	75 - 125
2,2-Dichloropropane	0.0500	0.04987		mg/L		100	75 - 125
1,1-Dichloropropene	0.0500	0.04539		mg/L		91	75 - 125
Ethylbenzene	0.0500	0.04922		mg/L		98	75 - 125
Hexachlorobutadiene	0.0500	0.04837		mg/L		97	75 - 125
Isopropylbenzene	0.0500	0.05049		mg/L		101	75 - 125
Methylene Chloride	0.0500	0.04347		mg/L		87	71 - 125
m,p-Xylenes	0.0500	0.04922		mg/L		98	75 - 125
MTBE	0.0500	0.04222		mg/L		84	65 - 135
Naphthalene	0.0500	0.04928		mg/L		99	70 - 130
n-Butylbenzene	0.0500	0.04553		mg/L		91	75 - 125
N-Propylbenzene	0.0500	0.04630		mg/L		93	75 - 125
o-Xylene	0.0500	0.04908		mg/L		98	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04743		mg/L		95	75 - 125
sec-Butylbenzene	0.0500	0.04628		mg/L		93	75 - 125
Styrene	0.0500	0.05091		mg/L		102	75 - 125
tert-Butylbenzene	0.0500	0.04721		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05164		mg/L		103	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04768		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.05206		mg/L		104	71 - 125
Toluene	0.0500	0.04860		mg/L		97	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04495		mg/L		90	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04963		mg/L		99	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05019		mg/L		100	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04954		mg/L		99	75 - 135
1,1,1-Trichloroethane	0.0500	0.04812		mg/L		96	70 - 130
1,1,2-Trichloroethane	0.0500	0.04913		mg/L		98	70 - 130
Trichloroethene	0.0500	0.04979		mg/L		100	75 - 135
Trichlorofluoromethane	0.0500	0.04552		mg/L		91	60 - 140
1,2,3-Trichloropropane	0.0500	0.04531		mg/L		91	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04795		mg/L		96	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04677		mg/L		94	60 - 140
Vinyl chloride	0.0500	0.04345		mg/L		87	60 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	98		80 - 120

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QC Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-136416/4

Matrix: Water

Analysis Batch: 136416

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	0.04730		mg/L		95	75 - 125	3	25
Bromobenzene	0.0500	0.04786		mg/L		96	75 - 125	2	25
Bromochloromethane	0.0500	0.05118		mg/L		102	60 - 140	1	25
Bromodichloromethane	0.0500	0.04833		mg/L		97	75 - 125	2	25
Bromoform	0.0500	0.05459		mg/L		109	70 - 130	1	25
Bromomethane	0.0500	0.05003		mg/L		100	60 - 140	2	25
2-Butanone	0.250	0.2388		mg/L		96	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04768		mg/L		95	70 - 130	0	25
Chlorobenzene	0.0500	0.04874		mg/L		97	65 - 135	2	25
Chloroethane	0.0500	0.04537		mg/L		91	60 - 140	6	25
Chloroform	0.0500	0.04681		mg/L		94	70 - 121	1	25
Chloromethane	0.0500	0.04499		mg/L		90	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04492		mg/L		90	73 - 125	3	25
4-Chlorotoluene	0.0500	0.04429		mg/L		89	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.04501		mg/L		90	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.04949		mg/L		99	74 - 125	0	25
Dibromochloromethane	0.0500	0.05172		mg/L		103	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05193		mg/L		104	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.05085		mg/L		102	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.04703		mg/L		94	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.04694		mg/L		94	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04655		mg/L		93	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.04549		mg/L		91	50 - 150	8	25
1,1-Dichloroethane	0.0500	0.04124		mg/L		82	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.04662		mg/L		93	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.04304		mg/L		86	50 - 150	1	25
1,2-Dichloropropane	0.0500	0.04707		mg/L		94	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04817		mg/L		96	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.04921		mg/L		98	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04593		mg/L		92	75 - 125	1	25
Ethylbenzene	0.0500	0.04773		mg/L		95	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.04709		mg/L		94	75 - 125	3	25
Isopropylbenzene	0.0500	0.04970		mg/L		99	75 - 125	2	25
Methylene Chloride	0.0500	0.04257		mg/L		85	71 - 125	2	25
m,p-Xylenes	0.0500	0.04819		mg/L		96	75 - 125	2	25
MTBE	0.0500	0.04315		mg/L		86	65 - 135	2	25
Naphthalene	0.0500	0.04926		mg/L		99	70 - 130	0	25
n-Butylbenzene	0.0500	0.04468		mg/L		89	75 - 125	2	25
N-Propylbenzene	0.0500	0.04416		mg/L		88	75 - 125	5	25
o-Xylene	0.0500	0.04808		mg/L		96	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04617		mg/L		92	75 - 125	3	25
sec-Butylbenzene	0.0500	0.04553		mg/L		91	75 - 125	2	25
Styrene	0.0500	0.05012		mg/L		100	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04636		mg/L		93	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.05077		mg/L		102	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.04751		mg/L		95	74 - 125	0	25
Tetrachloroethene	0.0500	0.05146		mg/L		103	71 - 125	1	25
Toluene	0.0500	0.04813		mg/L		96	70 - 130	1	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-136416/4
Matrix: Water
Analysis Batch: 136416

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	0.04175		mg/L		84	75 - 125	7	25
trans-1,3-Dichloropropene	0.0500	0.04962		mg/L		99	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.04865		mg/L		97	75 - 137	3	25
1,2,4-Trichlorobenzene	0.0500	0.04878		mg/L		98	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.04787		mg/L		96	70 - 130	1	25
1,1,2-Trichloroethane	0.0500	0.04848		mg/L		97	70 - 130	1	25
Trichloroethene	0.0500	0.04959		mg/L		99	75 - 135	0	25
Trichlorofluoromethane	0.0500	0.05156		mg/L		103	60 - 140	12	25
1,2,3-Trichloropropane	0.0500	0.04510		mg/L		90	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.04686		mg/L		94	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.04532		mg/L		91	60 - 140	3	25
Vinyl chloride	0.0500	0.04713		mg/L		94	60 - 140	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	92		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	91		63 - 144
Toluene-d8 (Surr)	98		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-136273/3
Matrix: Water
Analysis Batch: 136273

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			12/21/23 13:56	1
Chloride	<0.250	U	0.500	0.250 mg/L			12/21/23 13:56	1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/21/23 13:56	1
Sulfate	<0.200	U	0.500	0.200 mg/L			12/21/23 13:56	1

Lab Sample ID: LCS 860-136273/4
Matrix: Water
Analysis Batch: 136273

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	10.00		mg/L		100	90 - 110
Chloride	10.0	9.867		mg/L		99	90 - 110
Fluoride	10.0	10.03		mg/L		100	90 - 110
Sulfate	10.0	10.36		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-136273/5
Matrix: Water
Analysis Batch: 136273

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	9.979		mg/L		100	90 - 110	0	20
Chloride	10.0	9.820		mg/L		98	90 - 110	0	20
Fluoride	10.0	9.975		mg/L		100	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-136273/5

Matrix: Water

Analysis Batch: 136273

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	10.36		mg/L		104	90 - 110	0	20

Lab Sample ID: LLCS 860-136273/7

Matrix: Water

Analysis Batch: 136273

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	0.5171		mg/L		103	50 - 150		
Chloride	0.500	0.5084		mg/L		102	50 - 150		
Fluoride	0.500	0.4350	J	mg/L		87	50 - 150		
Sulfate	0.500	0.5491		mg/L		110	50 - 150		

Lab Sample ID: MB 860-136274/3

Matrix: Water

Analysis Batch: 136274

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			12/21/23 13:56	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/21/23 13:56	1

Lab Sample ID: LCS 860-136274/4

Matrix: Water

Analysis Batch: 136274

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	9.947		mg/L		99	80 - 120		
Nitrite as N	10.0	9.617		mg/L		96	80 - 120		

Lab Sample ID: LCSD 860-136274/5

Matrix: Water

Analysis Batch: 136274

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	9.946		mg/L		99	80 - 120	0	20
Nitrite as N	10.0	9.622		mg/L		96	80 - 120	0	20

Lab Sample ID: LLCS 860-136274/6

Matrix: Water

Analysis Batch: 136274

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	0.1084		mg/L		108	50 - 150		
Nitrite as N	0.100	0.08886	J	mg/L		89	50 - 150		

Eurofins Midland

QC Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-135313/15-C
Matrix: Water
Analysis Batch: 138598

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 136770

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		12/27/23 10:30	12/28/23 18:30	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		12/27/23 10:30	12/28/23 18:30	1
Potassium	0.2910	J	0.500	0.0914 mg/L		12/27/23 10:30	12/28/23 18:30	1
Sodium	<0.152	U	0.500	0.152 mg/L		12/27/23 10:30	12/28/23 18:30	1
SiO2	<0.471	U	1.07	0.471 mg/L		12/27/23 10:30	12/28/23 18:30	1

Lab Sample ID: LCS 860-135313/16-C
Matrix: Water
Analysis Batch: 138598

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 136770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.70		mg/L		103	85 - 115
Magnesium	25.0	25.50		mg/L		102	85 - 115
Potassium	10.0	10.70		mg/L		107	85 - 115
Sodium	25.0	25.80		mg/L		103	85 - 115
SiO2	21.4	21.83		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-135313/17-C
Matrix: Water
Analysis Batch: 138598

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 136770

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	1	20
Magnesium	25.0	25.30		mg/L		101	85 - 115	1	20
Potassium	10.0	10.60		mg/L		106	85 - 115	1	20
Sodium	25.0	25.60		mg/L		102	85 - 115	1	20
SiO2	21.4	21.83		mg/L		102	85 - 115	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-136445/3
Matrix: Water
Analysis Batch: 136445

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			12/22/23 10:40	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/22/23 10:40	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/22/23 10:40	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			12/22/23 10:40	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			12/22/23 10:40	1

Lab Sample ID: LCS 860-136445/4
Matrix: Water
Analysis Batch: 136445

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	247.0		mg/L		99	85 - 115

Eurofins Midland

QC Sample Results

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

Job ID: 880-37093-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-136445/5
Matrix: Water
Analysis Batch: 136445

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	249.0		mg/L		100	85 - 115	1	20

Lab Sample ID: 880-37093-1 DU
Matrix: Water
Analysis Batch: 136445

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	454		453.0		mg/L		0.3	20
Bicarbonate Alkalinity as CaCO3	454		453.0		mg/L		0.3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-136378/1
Matrix: Water
Analysis Batch: 136378

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			12/22/23 09:41	1

Lab Sample ID: LCS 860-136378/2
Matrix: Water
Analysis Batch: 136378

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	1107		mg/L		111	80 - 120

Lab Sample ID: LCSD 860-136378/3
Matrix: Water
Analysis Batch: 136378

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	1107		mg/L		111	80 - 120	0	10

Lab Sample ID: LLCS 860-136378/26
Matrix: Water
Analysis Batch: 136378

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	6.000		mg/L		120	50 - 150

QC Association Summary

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

Job ID: 880-37093-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 136416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37093-1	Levey Well	Total/NA	Water	8260C	
MB 860-136416/9	Method Blank	Total/NA	Water	8260C	
LCS 860-136416/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-136416/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 136273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37093-1	Levey Well	Total/NA	Water	300.0	
MB 860-136273/3	Method Blank	Total/NA	Water	300.0	
LCS 860-136273/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-136273/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-136273/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 136274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37093-1	Levey Well	Total/NA	Water	300.0	
MB 860-136274/3	Method Blank	Total/NA	Water	300.0	
LCS 860-136274/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-136274/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-136274/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Filtration Batch: 135313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-135313/15-C	Method Blank	Total Recoverable	Water	Filtration	
LCS 860-135313/16-C	Lab Control Sample	Total Recoverable	Water	Filtration	
LCSD 860-135313/17-C	Lab Control Sample Dup	Total Recoverable	Water	Filtration	

Prep Batch: 136770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37093-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-135313/15-C	Method Blank	Total Recoverable	Water	200.7	135313
LCS 860-135313/16-C	Lab Control Sample	Total Recoverable	Water	200.7	135313
LCSD 860-135313/17-C	Lab Control Sample Dup	Total Recoverable	Water	200.7	135313

Analysis Batch: 138598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37093-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	136770
MB 860-135313/15-C	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	136770
LCS 860-135313/16-C	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	136770
LCSD 860-135313/17-C	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	136770

General Chemistry

Analysis Batch: 136378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37093-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-136378/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-136378/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins Midland

QC Association Summary

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

Job ID: 880-37093-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 136378 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-136378/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-136378/26	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 136419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37093-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 136445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37093-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-136445/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-136445/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-136445/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-37093-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 136687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37093-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-37093-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 12/18/23 13:45
Date Received: 12/18/23 16:30

Lab Sample ID: 880-37093-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	136416	AN	EET HOU	12/22/23 14:37
Total/NA	Analysis	300.0		1	136273	A1S	EET HOU	12/21/23 20:20
Total/NA	Analysis	300.0		1	136274	A1S	EET HOU	12/21/23 20:20
Total Recoverable	Prep	200.7			136770	MD	EET HOU	12/27/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		5	138598	JDM	EET HOU	12/28/23 19:04
Total/NA	Analysis	SM 1030E		1	136687	MC	EET HOU	12/27/23 10:01
Total/NA	Analysis	SM 2320B		1	136445	KEG	EET HOU	12/22/23 11:06
Total/NA	Analysis	SM 2540C		1	136378	SA	EET HOU	12/22/23 09:41
Total/NA	Analysis	SM 4500 H+ B		1	136419	KEG	EET HOU	12/22/23 11:03

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: 880-37093-1
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: 880-37093-1
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: 880-37093-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37093-1	Levey Well	Water	12/18/23 13:45	12/18/23 16:30

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



Chain of Custody

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

Wc



880-37093 Chain of Custody

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

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

ANALYSIS REQUEST				Turn Around		Work Order Notes	
Project Name:	Levey Well	Hobbs NM		Routine ☐	Rush 24 hr ☐		
Project Number:	03B1417001						
P.O. Number:	03B1417001						
Sampler's Name:	Shane Diller						
SAMPLE RECEIPT Temperature (°C): 5.4/5.6 Received Intact: (Yes) No Cooler Custody Seals: Yes No N/A Sample Custody Seals: Yes No N/A Thermometer ID: JAB Correction Factor: +2.0 Total Containers: 7				Due Date			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth			
Levey Well	GW	12-18-23	1345	-			
VOCs ☒ Anions: F, Cl, SO ₄ , B ☒ Cations: Ca, K, Mg, Na, Si ☒ pH ☒ Alkalinity ☒ TDS ☒							
Number of Containers				7			
TAT starts the day received by the lab, if received by 4 30pm				Sample Comments			
				24hr			

ALS 10450 Stancil Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5587		CUSTODY SEAL Date: 12-18-23 Time: 1345 Name: [Signature] Company: [Signature]		Seal Broken By: Date:
--	--	---	--	--------------------------

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[Signature]	[Signature]	12/18/23	[Signature]	[Signature]	
		1030			

Revised Date 05/14/18 Rev 2018.1

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

Chain of Custody Record



Environment Test ng

Client Information (Sub Contract Lab)		Sampler		Lab PM: Kramer Jessica		Carrier Tracking No(s):		COC No: 880-8731 1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: Jessica.Kramer@eurofins.com		State of Origin: New Mexico		Page: Page 1 of 1	
Company: Eurofins Environment Testing South Central		Address: 4145 Greenbriar Dr		City: Stafford		State: TX		Zip: 77477	
Phone: 281-240-4200(Tel)		Email:		PO #:		WO #:		Project #:	
Site: Levey Well Hobbs, NM 03B1417001		SSOW#:		Due Date Requested: 12/20/2023		TAT Requested (days):		Preservation Codes:	
Sample Identification		Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Levey Well (880-37093-1)				12/18/23		13:45 Mountain		Water	
Matrix (Water, Spill, Overstabil, BT-Tissue, A=Air)		Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8260C/5030C (MOD) Full List VOCs	
				X		X		200.7/200.7_P_TR (MOD) Custom List	
				X		X		300_ORGFM_28D/Br Cl, F, SO4	
				X		X		300_ORGFM/NO2, NO3	
				X		X		SM4500_H+PH	
				X		X		2540C_Calc/TDS	
				X		X		Calcium, Antion (MOD) Copy Analytes	
				X		X		Total Number of containers	
				X		X		Special Instructions/Note:	
								Temp 2.2 IR ID:HOU-369	
								C/F -0.0	
								Corrected Temp 2.2	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.									
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV Other (specify) Primary Deliverable Rank. 2									
Empty Kit Relinquished by [Signature] Date: 12/21/23 Time: 11:09am Relinquished by Fedex Date: 12/21/23 Time: 11:09am Relinquished by Fedex Date: 12/21/23 Time: 11:09am									
Custody Seals Intact: Δ Yes Δ No Custody Seal No. Ver 06/08/2021									

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-37093-1

SDG Number: Hobbs NM

Login Number: 37093

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-37093-1

SDG Number: Hobbs NM

Login Number: 37093

List Number: 2

Creator: Garcia, Yaillet

List Source: Eurofins Houston

List Creation: 12/21/23 05:46 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

December 19, 2023

Ensolum, LLC

Sample Delivery Group: L1686926
Samples Received: 12/12/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

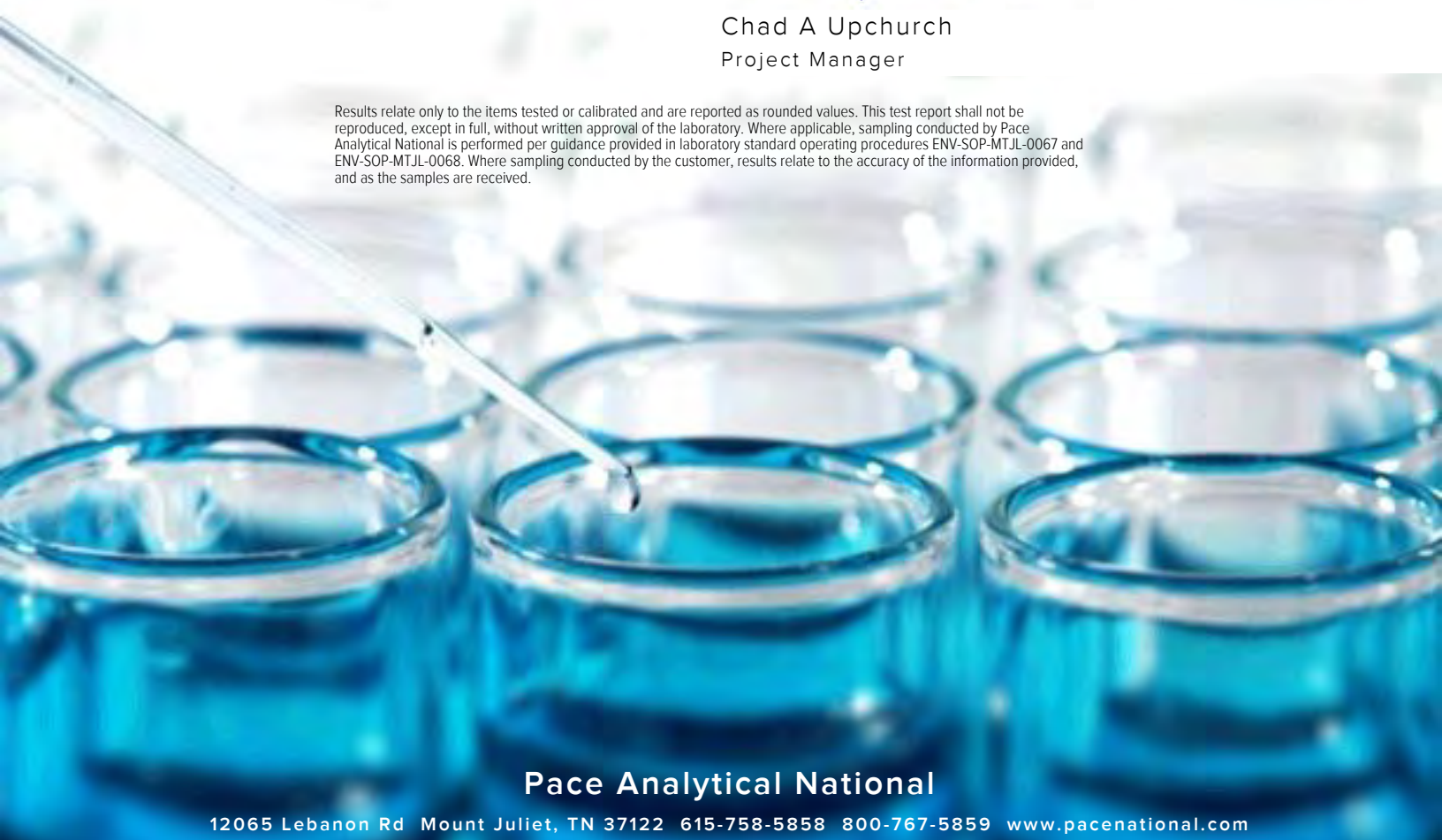


Entire Report Reviewed By:

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 L1686926-01	9	
LEVEY WELL L1686926-02	11	
LEVEY WELL L1686926-03	13	⁷ Qc
LEVEY WELL L1686926-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	31	
Al: Accreditations & Locations	32	¹⁰ Sc
Sc: Sample Chain of Custody	33	

LEVEY WELL L1686926-01 Air

Collected by
Shane Diller

Collected date/time
12/08/23 08:36

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2190724	20	12/16/23 18:48	12/16/23 18:48	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2191702	2000	12/19/23 00:25	12/19/23 00:25	JAP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

LEVEY WELL L1686926-02 Air

Collected by
Shane Diller

Collected date/time
12/08/23 10:01

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2190724	100	12/16/23 19:27	12/16/23 19:27	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2191702	2000	12/19/23 00:50	12/19/23 00:50	JAP	Mt. Juliet, TN

LEVEY WELL L1686926-03 Air

Collected by
Shane Diller

Collected date/time
12/08/23 11:07

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2188600	100	12/14/23 00:18	12/14/23 00:18	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2190762	5000	12/16/23 17:44	12/16/23 17:44	JAP	Mt. Juliet, TN

LEVEY WELL L1686926-04 Air

Collected by
Shane Diller

Collected date/time
12/08/23 12:07

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2191604	1000	12/18/23 16:16	12/18/23 16:16	GH	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.



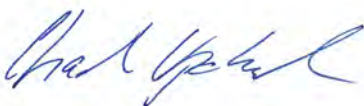
Chad A Upchurch
Project Manager

- 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: 12/19/2023 11:00					
Project Name: Levey Well		Laboratory Job Number: L1686926-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2188600, WG2190724, WG2190762, WG2191604 and WG2191702					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

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

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 12/19/2023 11:00					
Project Name: Levey Well		Laboratory Job Number: L1686926-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2188600, WG2190724, WG2190762, WG2191604 and WG2191702					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 12/19/2023 11:00	
Project Name: Levey Well		Laboratory Job Number: L1686926-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2188600, WG2190724, WG2190762, WG2191604 and WG2191702	
ER # ¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 12/08/23 08:36

L1686926

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	82.2	195		20	WG2190724
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG2190724
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG2190724
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG2190724
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG2190724
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG2190724
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG2190724
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG2190724
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG2190724
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG2190724
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG2190724
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG2190724
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG2190724
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG2190724
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG2190724
Cyclohexane	110-82-7	84.20	4.00	13.8	681	2350		20	WG2190724
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG2190724
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG2190724
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG2190724
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG2190724
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG2190724
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG2190724
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG2190724
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG2190724
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG2190724
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG2190724
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG2190724
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG2190724
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG2190724
1,4-Dioxane	123-91-1	88.10	12.6	45.4	ND	ND		20	WG2190724
Ethanol	64-17-5	46.10	50.0	94.3	103	194	B	20	WG2190724
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG2190724
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG2190724
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG2190724
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG2190724
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG2190724
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG2190724
Heptane	142-82-5	100	4.00	16.4	658	2690		20	WG2190724
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG2190724
n-Hexane	110-54-3	86.20	1260	4440	12300	43400		2000	WG2191702
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG2190724
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG2190724
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG2190724
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	ND	ND		20	WG2190724
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG2190724
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG2190724
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG2190724
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG2190724
2-Propanol	67-63-0	60.10	25.0	61.5	ND	ND		20	WG2190724
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG2190724
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG2190724
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG2190724
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG2190724
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG2190724
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG2190724
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG2190724

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/08/23 08:36

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG2190724
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG2190724
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG2190724
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG2190724
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG2190724
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG2190724
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG2190724
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG2190724
Vinyl acetate	108-05-4	86.10	12.6	44.4	ND	ND		20	WG2190724
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG2190724
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG2190724
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	18800	77700		20	WG2190724
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.2				WG2190724
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.6				WG2191702

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 12/08/23 10:01

L1686926

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	690	1640		100	WG2190724
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2190724
Benzene	71-43-2	78.10	20.0	63.9	8480	27100		100	WG2190724
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2190724
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2190724
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2190724
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2190724
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2190724
Carbon disulfide	75-15-0	76.10	20.0	62.2	29.7	92.4		100	WG2190724
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2190724
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2190724
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2190724
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2190724
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2190724
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2190724
Cyclohexane	110-82-7	84.20	400	1380	61600	212000		2000	WG2191702
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2190724
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2190724
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2190724
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2190724
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2190724
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2190724
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2190724
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2190724
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2190724
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2190724
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2190724
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2190724
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2190724
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2190724
Ethanol	64-17-5	46.10	250	471	1110	2090	B	100	WG2190724
Ethylbenzene	100-41-4	106	20.0	86.7	990	4290		100	WG2190724
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2190724
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2190724
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2190724
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2190724
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2190724
Heptane	142-82-5	100	400	1640	48200	197000		2000	WG2191702
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2190724
n-Hexane	110-54-3	86.20	1260	4440	25600	90300		2000	WG2191702
Isopropylbenzene	98-82-8	120.20	20.0	98.3	64.5	317		100	WG2190724
Methylene Chloride	75-09-2	84.90	20.0	69.4	36.8	128		100	WG2190724
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2190724
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2190724
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2190724
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2190724
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2190724
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2190724
2-Propanol	67-63-0	60.10	125	307	1390	3420		100	WG2190724
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2190724
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2190724
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2190724
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2190724
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2190724
Toluene	108-88-3	92.10	1000	3770	23300	87800		2000	WG2191702
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2190724

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/08/23 10:01

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	WG2190724
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2190724
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2190724
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	21.4	105		100	WG2190724
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2190724
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2190724
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2190724
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2190724
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2190724
m&p-Xylene	1330-20-7	106	40.0	173	2330	10100		100	WG2190724
o-Xylene	95-47-6	106	20.0	86.7	511	2220		100	WG2190724
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	379000	1570000		100	WG2190724
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.4				WG2190724
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.6				WG2191702

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 12/08/23 11:07

L1686926

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	WG2188600
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2188600
Benzene	71-43-2	78.10	1000	3190	20900	66800		5000	WG2190762
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2188600
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2188600
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2188600
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2188600
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2188600
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2188600
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2188600
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2188600
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2188600
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2188600
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2188600
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2188600
Cyclohexane	110-82-7	84.20	1000	3440	114000	393000		5000	WG2190762
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2188600
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2188600
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2188600
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2188600
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2188600
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2188600
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2188600
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2188600
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2188600
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2188600
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2188600
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2188600
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2188600
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2188600
Ethanol	64-17-5	46.10	250	471	908	1710	B	100	WG2188600
Ethylbenzene	100-41-4	106	20.0	86.7	6380	27700		100	WG2188600
4-Ethyltoluene	622-96-8	120	20.0	98.2	81.0	398		100	WG2188600
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2188600
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2188600
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2188600
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2188600
Heptane	142-82-5	100	1000	4090	137000	560000		5000	WG2190762
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2188600
n-Hexane	110-54-3	86.20	3150	11100	31600	111000		5000	WG2190762
Isopropylbenzene	98-82-8	120.20	20.0	98.3	556	2730		100	WG2188600
Methylene Chloride	75-09-2	84.90	20.0	69.4	36.6	127	B	100	WG2188600
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2188600
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2188600
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2188600
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2188600
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2188600
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2188600
2-Propanol	67-63-0	60.10	125	307	1310	3220		100	WG2188600
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2188600
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2188600
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2188600
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2188600
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2188600
Toluene	108-88-3	92.10	2500	9420	91000	343000		5000	WG2190762
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2188600

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/08/23 11:07

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	WG2188600
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2188600
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2188600
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	126	618		100	WG2188600
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	118	579		100	WG2188600
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2188600
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2188600
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2188600
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2188600
m&p-Xylene	1330-20-7	106	40.0	173	14800	64200		100	WG2188600
o-Xylene	95-47-6	106	20.0	86.7	3680	16000		100	WG2188600
TPH (GC/MS) Low Fraction	8006-61-9	101	1000000	4130000	1980000	8180000		5000	WG2190762
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		116				WG2188600
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.5				WG2190762

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 12/08/23 12:07

L1686926

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1250	2970	ND	ND		1000	WG2191604
Allyl chloride	107-05-1	76.53	200	626	ND	ND		1000	WG2191604
Benzene	71-43-2	78.10	200	639	11000	35100		1000	WG2191604
Benzyl Chloride	100-44-7	127	200	1040	ND	ND		1000	WG2191604
Bromodichloromethane	75-27-4	164	200	1340	ND	ND		1000	WG2191604
Bromoform	75-25-2	253	600	6210	ND	ND		1000	WG2191604
Bromomethane	74-83-9	94.90	200	776	ND	ND		1000	WG2191604
1,3-Butadiene	106-99-0	54.10	2000	4430	ND	ND		1000	WG2191604
Carbon disulfide	75-15-0	76.10	200	622	ND	ND		1000	WG2191604
Carbon tetrachloride	56-23-5	154	200	1260	ND	ND		1000	WG2191604
Chlorobenzene	108-90-7	113	200	924	ND	ND		1000	WG2191604
Chloroethane	75-00-3	64.50	200	528	ND	ND		1000	WG2191604
Chloroform	67-66-3	119	200	973	ND	ND		1000	WG2191604
Chloromethane	74-87-3	50.50	200	413	ND	ND		1000	WG2191604
2-Chlorotoluene	95-49-8	126	200	1030	ND	ND		1000	WG2191604
Cyclohexane	110-82-7	84.20	200	689	56300	194000		1000	WG2191604
Dibromochloromethane	124-48-1	208	200	1700	ND	ND		1000	WG2191604
1,2-Dibromoethane	106-93-4	188	200	1540	ND	ND		1000	WG2191604
1,2-Dichlorobenzene	95-50-1	147	200	1200	ND	ND		1000	WG2191604
1,3-Dichlorobenzene	541-73-1	147	200	1200	ND	ND		1000	WG2191604
1,4-Dichlorobenzene	106-46-7	147	200	1200	ND	ND		1000	WG2191604
1,2-Dichloroethane	107-06-2	99	200	810	ND	ND		1000	WG2191604
1,1-Dichloroethane	75-34-3	98	200	802	ND	ND		1000	WG2191604
1,1-Dichloroethene	75-35-4	96.90	200	793	ND	ND		1000	WG2191604
cis-1,2-Dichloroethene	156-59-2	96.90	200	793	ND	ND		1000	WG2191604
trans-1,2-Dichloroethene	156-60-5	96.90	200	793	ND	ND		1000	WG2191604
1,2-Dichloropropane	78-87-5	113	200	924	ND	ND		1000	WG2191604
cis-1,3-Dichloropropene	10061-01-5	111	200	908	ND	ND		1000	WG2191604
trans-1,3-Dichloropropene	10061-02-6	111	200	908	ND	ND		1000	WG2191604
1,4-Dioxane	123-91-1	88.10	630	2270	ND	ND		1000	WG2191604
Ethanol	64-17-5	46.10	2500	4710	ND	ND		1000	WG2191604
Ethylbenzene	100-41-4	106	200	867	7390	32000		1000	WG2191604
4-Ethyltoluene	622-96-8	120	200	982	ND	ND		1000	WG2191604
Trichlorofluoromethane	75-69-4	137.40	200	1120	ND	ND		1000	WG2191604
Dichlorodifluoromethane	75-71-8	120.92	200	989	ND	ND		1000	WG2191604
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	200	1530	ND	ND		1000	WG2191604
1,2-Dichlorotetrafluoroethane	76-14-2	171	200	1400	ND	ND		1000	WG2191604
Heptane	142-82-5	100	200	818	82500	337000		1000	WG2191604
Hexachloro-1,3-butadiene	87-68-3	261	630	6730	ND	ND		1000	WG2191604
n-Hexane	110-54-3	86.20	630	2220	14000	49400		1000	WG2191604
Isopropylbenzene	98-82-8	120.20	200	983	838	4120		1000	WG2191604
Methylene Chloride	75-09-2	84.90	200	694	ND	ND		1000	WG2191604
Methyl Butyl Ketone	591-78-6	100	1250	5110	ND	ND		1000	WG2191604
2-Butanone (MEK)	78-93-3	72.10	1250	3690	ND	ND		1000	WG2191604
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1250	5120	ND	ND		1000	WG2191604
Methyl methacrylate	80-62-6	100.12	200	819	ND	ND		1000	WG2191604
MTBE	1634-04-4	88.10	200	721	ND	ND		1000	WG2191604
Naphthalene	91-20-3	128	630	3300	ND	ND		1000	WG2191604
2-Propanol	67-63-0	60.10	1250	3070	3450	8480		1000	WG2191604
Propene	115-07-1	42.10	1250	2150	ND	ND		1000	WG2191604
Styrene	100-42-5	104	200	851	ND	ND		1000	WG2191604
1,1,2,2-Tetrachloroethane	79-34-5	168	200	1370	ND	ND		1000	WG2191604
Tetrachloroethylene	127-18-4	166	200	1360	ND	ND		1000	WG2191604
Tetrahydrofuran	109-99-9	72.10	200	590	ND	ND		1000	WG2191604
Toluene	108-88-3	92.10	500	1880	66500	250000		1000	WG2191604
1,2,4-Trichlorobenzene	120-82-1	181	630	4660	ND	ND		1000	WG2191604

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/08/23 12:07

L1686926

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	200	1090	ND	ND		1000	WG2191604
1,1,2-Trichloroethane	79-00-5	133	200	1090	ND	ND		1000	WG2191604
Trichloroethylene	79-01-6	131	200	1070	ND	ND		1000	WG2191604
1,2,4-Trimethylbenzene	95-63-6	120	200	982	319	1570		1000	WG2191604
1,3,5-Trimethylbenzene	108-67-8	120	200	982	263	1290		1000	WG2191604
2,2,4-Trimethylpentane	540-84-1	114.22	200	934	ND	ND		1000	WG2191604
Vinyl chloride	75-01-4	62.50	200	511	ND	ND		1000	WG2191604
Vinyl Bromide	593-60-2	106.95	200	875	ND	ND		1000	WG2191604
Vinyl acetate	108-05-4	86.10	630	2220	4110	14500		1000	WG2191604
m&p-Xylene	1330-20-7	106	400	1730	18300	79300		1000	WG2191604
o-Xylene	95-47-6	106	200	867	5000	21700		1000	WG2191604
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	826000	684000	2830000		1000	WG2191604
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2191604

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1686926-03

Method Blank (MB)

(MB) R4013125-2 12/13/23 10:15

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
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	0.136	U	0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	2.11	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
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	0.103	U	0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4013125-2 12/13/23 10:15

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	0.680	U	0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	103			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R4013125-1 12/13/23 09:45 • (LCSD) R4013125-3 12/13/23 13:01

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	3.82	4.04	102	108	70.0-130			5.60	25
Allyl chloride	3.75	4.55	4.36	121	116	70.0-130			4.26	25
Benzyl Chloride	3.75	3.80	3.77	101	101	70.0-152			0.793	25
Bromodichloromethane	3.75	4.20	4.12	112	110	70.0-130			1.92	25
Bromoform	3.75	3.62	4.13	96.5	110	70.0-130			13.2	25
Bromomethane	3.75	4.41	4.43	118	118	70.0-130			0.452	25
1,3-Butadiene	3.75	4.23	4.44	113	118	70.0-130			4.84	25
Carbon disulfide	3.75	3.94	4.66	105	124	70.0-130			16.7	25
Carbon tetrachloride	3.75	4.13	4.07	110	109	70.0-130			1.46	25
Chlorobenzene	3.75	4.01	4.02	107	107	70.0-130			0.249	25

Volatile Organic Compounds (MS) by Method TO-15

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

(LCS) R4013125-1 12/13/23 09:45 • (LCSD) R4013125-3 12/13/23 13:01

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroethane	3.75	4.12	4.38	110	117	70.0-130			6.12	25
Chloroform	3.75	4.34	4.25	116	113	70.0-130			2.10	25
Chloromethane	3.75	4.47	4.72	119	126	70.0-130			5.44	25
2-Chlorotoluene	3.75	4.14	4.26	110	114	70.0-130			2.86	25
Dibromochloromethane	3.75	3.96	3.81	106	102	70.0-130			3.86	25
1,2-Dibromoethane	3.75	4.08	4.08	109	109	70.0-130			0.000	25
1,2-Dichlorobenzene	3.75	4.04	4.06	108	108	70.0-130			0.494	25
1,3-Dichlorobenzene	3.75	3.94	4.14	105	110	70.0-130			4.95	25
1,4-Dichlorobenzene	3.75	3.99	4.12	106	110	70.0-130			3.21	25
1,2-Dichloroethane	3.75	4.36	4.52	116	121	70.0-130			3.60	25
1,1-Dichloroethane	3.75	4.51	4.59	120	122	70.0-130			1.76	25
1,1-Dichloroethene	3.75	4.46	4.45	119	119	70.0-130			0.224	25
cis-1,2-Dichloroethene	3.75	4.23	4.23	113	113	70.0-130			0.000	25
trans-1,2-Dichloroethene	3.75	4.42	4.61	118	123	70.0-130			4.21	25
1,2-Dichloropropane	3.75	4.21	4.15	112	111	70.0-130			1.44	25
cis-1,3-Dichloropropene	3.75	4.16	3.97	111	106	70.0-130			4.67	25
trans-1,3-Dichloropropene	3.75	4.04	3.97	108	106	70.0-130			1.75	25
1,4-Dioxane	3.75	3.60	4.34	96.0	116	70.0-140			18.6	25
Ethanol	3.75	4.68	5.09	125	136	55.0-148			8.39	25
Ethylbenzene	3.75	4.27	4.23	114	113	70.0-130			0.941	25
4-Ethyltoluene	3.75	4.10	4.43	109	118	70.0-130			7.74	25
Trichlorofluoromethane	3.75	4.45	4.35	119	116	70.0-130			2.27	25
Dichlorodifluoromethane	3.75	4.50	4.61	120	123	64.0-139			2.41	25
1,1,2-Trichlorotrifluoroethane	3.75	4.47	4.52	119	121	70.0-130			1.11	25
1,2-Dichlorotetrafluoroethane	3.75	4.51	4.56	120	122	70.0-130			1.10	25
Hexachloro-1,3-butadiene	3.75	3.55	3.49	94.7	93.1	70.0-151			1.70	25
Isopropylbenzene	3.75	4.17	4.38	111	117	70.0-130			4.91	25
Methylene Chloride	3.75	4.41	4.54	118	121	70.0-130			2.91	25
Methyl Butyl Ketone	3.75	4.52	4.71	121	126	70.0-149			4.12	25
2-Butanone (MEK)	3.75	4.27	4.28	114	114	70.0-130			0.234	25
4-Methyl-2-pentanone (MIBK)	3.75	4.20	4.24	112	113	70.0-139			0.948	25
Methyl methacrylate	3.75	4.31	4.08	115	109	70.0-130			5.48	25
MTBE	3.75	4.14	4.16	110	111	70.0-130			0.482	25
Naphthalene	3.75	4.07	3.81	109	102	70.0-159			6.60	25
2-Propanol	3.75	4.01	4.66	107	124	70.0-139			15.0	25
Propene	3.75	4.20	4.07	112	109	64.0-144			3.14	25
Styrene	3.75	4.35	4.30	116	115	70.0-130			1.16	25
1,1,2,2-Tetrachloroethane	3.75	4.22	4.40	113	117	70.0-130			4.18	25
Tetrachloroethylene	3.75	3.81	3.78	102	101	70.0-130			0.791	25
Tetrahydrofuran	3.75	4.25	4.24	113	113	70.0-137			0.236	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R4013125-1 12/13/23 09:45 • (LCSD) R4013125-3 12/13/23 13:01

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
1,2,4-Trichlorobenzene	3.75	3.78	3.75	101	100	70.0-160			0.797	25
1,1,1-Trichloroethane	3.75	4.08	4.02	109	107	70.0-130			1.48	25
1,1,2-Trichloroethane	3.75	4.05	4.04	108	108	70.0-130			0.247	25
Trichloroethylene	3.75	4.16	4.28	111	114	70.0-130			2.84	25
1,2,4-Trimethylbenzene	3.75	4.15	4.27	111	114	70.0-130			2.85	25
1,3,5-Trimethylbenzene	3.75	4.08	4.20	109	112	70.0-130			2.90	25
2,2,4-Trimethylpentane	3.75	4.43	4.32	118	115	70.0-130			2.51	25
Vinyl chloride	3.75	4.37	4.48	117	119	70.0-130			2.49	25
Vinyl Bromide	3.75	4.34	4.40	116	117	70.0-130			1.37	25
Vinyl acetate	3.75	4.32	4.05	115	108	70.0-130			6.45	25
m&p-Xylene	7.50	8.53	8.80	114	117	70.0-130			3.12	25
o-Xylene	3.75	4.28	4.40	114	117	70.0-130			2.76	25
(S) 1,4-Bromofluorobenzene				108	97.3	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4013746-3 12/16/23 08:37

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	1.79	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

L1686926-01.02

Method Blank (MB)

(MB) R4013746-3 12/16/23 08:37

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	0.305	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	97.6			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R4013746-1 12/16/23 07:18 • (LCSD) R4013746-2 12/16/23 07:58

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	3.96	4.01	106	107	70.0-130			1.25	25
Allyl chloride	3.75	4.47	4.38	119	117	70.0-130			2.03	25
Benzene	3.75	4.42	4.36	118	116	70.0-130			1.37	25
Benzyl Chloride	3.75	4.56	4.49	122	120	70.0-152			1.55	25
Bromodichloromethane	3.75	4.46	4.41	119	118	70.0-130			1.13	25

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

(LCS) R4013746-1 12/16/23 07:18 • (LCSD) R4013746-2 12/16/23 07:58

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	3.75	4.48	4.46	119	119	70.0-130			0.447	25
Bromomethane	3.75	4.23	4.28	113	114	70.0-130			1.18	25
1,3-Butadiene	3.75	4.08	4.09	109	109	70.0-130			0.245	25
Carbon disulfide	3.75	4.53	4.49	121	120	70.0-130			0.887	25
Carbon tetrachloride	3.75	4.50	4.45	120	119	70.0-130			1.12	25
Chlorobenzene	3.75	4.40	4.42	117	118	70.0-130			0.454	25
Chloroethane	3.75	4.24	4.27	113	114	70.0-130			0.705	25
Chloroform	3.75	4.44	4.40	118	117	70.0-130			0.905	25
Chloromethane	3.75	4.31	4.31	115	115	70.0-130			0.000	25
2-Chlorotoluene	3.75	4.43	4.45	118	119	70.0-130			0.450	25
Cyclohexane	3.75	4.46	4.39	119	117	70.0-130			1.58	25
Dibromochloromethane	3.75	4.46	4.45	119	119	70.0-130			0.224	25
1,2-Dibromoethane	3.75	4.44	4.44	118	118	70.0-130			0.000	25
1,2-Dichlorobenzene	3.75	4.47	4.42	119	118	70.0-130			1.12	25
1,3-Dichlorobenzene	3.75	4.38	4.38	117	117	70.0-130			0.000	25
1,4-Dichlorobenzene	3.75	4.47	4.50	119	120	70.0-130			0.669	25
1,2-Dichloroethane	3.75	4.45	4.41	119	118	70.0-130			0.903	25
1,1-Dichloroethane	3.75	4.49	4.47	120	119	70.0-130			0.446	25
1,1-Dichloroethene	3.75	4.46	4.44	119	118	70.0-130			0.449	25
cis-1,2-Dichloroethene	3.75	4.50	4.50	120	120	70.0-130			0.000	25
trans-1,2-Dichloroethene	3.75	4.53	4.50	121	120	70.0-130			0.664	25
1,2-Dichloropropane	3.75	4.39	4.36	117	116	70.0-130			0.686	25
cis-1,3-Dichloropropene	3.75	4.51	4.48	120	119	70.0-130			0.667	25
trans-1,3-Dichloropropene	3.75	4.53	4.51	121	120	70.0-130			0.442	25
1,4-Dioxane	3.75	4.39	4.34	117	116	70.0-140			1.15	25
Ethanol	3.75	4.36	4.42	116	118	55.0-148			1.37	25
Ethylbenzene	3.75	4.42	4.39	118	117	70.0-130			0.681	25
4-Ethyltoluene	3.75	4.52	4.49	121	120	70.0-130			0.666	25
Trichlorofluoromethane	3.75	4.46	4.42	119	118	70.0-130			0.901	25
Dichlorodifluoromethane	3.75	4.33	4.29	115	114	64.0-139			0.928	25
1,1,2-Trichlorotrifluoroethane	3.75	4.42	4.37	118	117	70.0-130			1.14	25
1,2-Dichlorotetrafluoroethane	3.75	4.44	4.43	118	118	70.0-130			0.225	25
Heptane	3.75	4.51	4.41	120	118	70.0-130			2.24	25
Hexachloro-1,3-butadiene	3.75	4.40	4.41	117	118	70.0-151			0.227	25
Isopropylbenzene	3.75	4.44	4.47	118	119	70.0-130			0.673	25
Methylene Chloride	3.75	4.31	4.26	115	114	70.0-130			1.17	25
Methyl Butyl Ketone	3.75	4.53	4.53	121	121	70.0-149			0.000	25
2-Butanone (MEK)	3.75	4.41	4.58	118	122	70.0-130			3.78	25
4-Methyl-2-pentanone (MIBK)	3.75	4.50	4.52	120	121	70.0-139			0.443	25
Methyl methacrylate	3.75	4.15	4.22	111	113	70.0-130			1.67	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R4013746-1 12/16/23 07:18 • (LCSD) R4013746-2 12/16/23 07:58

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
MTBE	3.75	4.45	4.52	119	121	70.0-130			1.56	25
Naphthalene	3.75	4.33	4.36	115	116	70.0-159			0.690	25
2-Propanol	3.75	3.94	3.94	105	105	70.0-139			0.000	25
Propene	3.75	4.44	4.38	118	117	64.0-144			1.36	25
Styrene	3.75	4.51	4.54	120	121	70.0-130			0.663	25
1,1,2,2-Tetrachloroethane	3.75	4.41	4.40	118	117	70.0-130			0.227	25
Tetrachloroethylene	3.75	4.36	4.35	116	116	70.0-130			0.230	25
Tetrahydrofuran	3.75	4.49	4.58	120	122	70.0-137			1.98	25
Toluene	3.75	4.38	4.37	117	117	70.0-130			0.229	25
1,2,4-Trichlorobenzene	3.75	4.22	4.27	113	114	70.0-160			1.18	25
1,1,1-Trichloroethane	3.75	4.47	4.43	119	118	70.0-130			0.899	25
1,1,2-Trichloroethane	3.75	4.35	4.37	116	117	70.0-130			0.459	25
Trichloroethylene	3.75	4.42	4.40	118	117	70.0-130			0.454	25
1,2,4-Trimethylbenzene	3.75	4.53	4.47	121	119	70.0-130			1.33	25
1,3,5-Trimethylbenzene	3.75	4.59	4.54	122	121	70.0-130			1.10	25
2,2,4-Trimethylpentane	3.75	4.53	4.48	121	119	70.0-130			1.11	25
Vinyl chloride	3.75	4.24	4.33	113	115	70.0-130			2.10	25
Vinyl Bromide	3.75	4.40	4.32	117	115	70.0-130			1.83	25
Vinyl acetate	3.75	4.74	4.75	126	127	70.0-130			0.211	25
m&p-Xylene	7.50	8.99	8.95	120	119	70.0-130			0.446	25
o-Xylene	3.75	4.44	4.42	118	118	70.0-130			0.451	25
TPH (GC/MS) Low Fraction	188	202	204	107	109	70.0-130			0.985	25
(S) 1,4-Bromofluorobenzene				98.5	100	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4013921-3 12/16/23 08:53

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0715	0.200
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
Toluene	U		0.0870	0.500
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	92.2			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R4013921-1 12/16/23 07:26 • (LCSD) R4013921-2 12/16/23 08:10

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	3.75	4.25	4.17	113	111	70.0-130			1.90	25
Cyclohexane	3.75	3.66	3.66	97.6	97.6	70.0-130			0.000	25
Heptane	3.75	3.94	3.85	105	103	70.0-130			2.31	25
n-Hexane	3.75	3.34	3.52	89.1	93.9	70.0-130			5.25	25
Toluene	3.75	4.10	3.95	109	105	70.0-130			3.73	25
TPH (GC/MS) Low Fraction	188	181	180	96.3	95.7	70.0-130			0.554	25
(S) 1,4-Bromofluorobenzene				89.8	96.7	60.0-140				

Method Blank (MB)

(MB) R4014017-3 12/18/23 14:49

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

Volatile Organic Compounds (MS) by Method TO-15

L1686926-04

Method Blank (MB)

(MB) R4014017-3 12/18/23 14:49

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	0.158	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	41.6	U	39.7	200
(S) 1,4-Bromofluorobenzene	96.8			60.0-140

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

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

(LCS) R4014017-1 12/18/23 09:06 • (LCSD) R4014017-2 12/18/23 09:35

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.63	3.53	96.8	94.1	70.0-130			2.79	25
Allyl chloride	3.75	3.74	3.64	99.7	97.1	70.0-130			2.71	25
Benzene	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
Benzyl Chloride	3.75	4.17	4.17	111	111	70.0-152			0.000	25

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

(LCS) R4014017-1 12/18/23 09:06 • (LCSD) R4014017-2 12/18/23 09:35

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	3.75	3.71	100	98.9	70.0-130			1.07	25
Bromoform	3.75	3.69	3.57	98.4	95.2	70.0-130			3.31	25
Bromomethane	3.75	3.64	3.60	97.1	96.0	70.0-130			1.10	25
1,3-Butadiene	3.75	3.49	3.49	93.1	93.1	70.0-130			0.000	25
Carbon disulfide	3.75	3.53	3.44	94.1	91.7	70.0-130			2.58	25
Carbon tetrachloride	3.75	3.66	3.68	97.6	98.1	70.0-130			0.545	25
Chlorobenzene	3.75	3.80	3.74	101	99.7	70.0-130			1.59	25
Chloroethane	3.75	3.78	3.72	101	99.2	70.0-130			1.60	25
Chloroform	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
Chloromethane	3.75	3.83	3.76	102	100	70.0-130			1.84	25
2-Chlorotoluene	3.75	3.83	3.77	102	101	70.0-130			1.58	25
Cyclohexane	3.75	3.76	3.75	100	100	70.0-130			0.266	25
Dibromochloromethane	3.75	3.66	3.70	97.6	98.7	70.0-130			1.09	25
1,2-Dibromoethane	3.75	3.73	3.78	99.5	101	70.0-130			1.33	25
1,2-Dichlorobenzene	3.75	3.91	3.85	104	103	70.0-130			1.55	25
1,3-Dichlorobenzene	3.75	4.01	4.07	107	109	70.0-130			1.49	25
1,4-Dichlorobenzene	3.75	3.97	3.94	106	105	70.0-130			0.759	25
1,2-Dichloroethane	3.75	3.71	3.74	98.9	99.7	70.0-130			0.805	25
1,1-Dichloroethane	3.75	3.74	3.74	99.7	99.7	70.0-130			0.000	25
1,1-Dichloroethene	3.75	3.73	3.62	99.5	96.5	70.0-130			2.99	25
cis-1,2-Dichloroethene	3.75	3.82	3.77	102	101	70.0-130			1.32	25
trans-1,2-Dichloroethene	3.75	3.58	3.56	95.5	94.9	70.0-130			0.560	25
1,2-Dichloropropane	3.75	3.81	3.75	102	100	70.0-130			1.59	25
cis-1,3-Dichloropropene	3.75	3.68	3.55	98.1	94.7	70.0-130			3.60	25
trans-1,3-Dichloropropene	3.75	3.74	3.80	99.7	101	70.0-130			1.59	25
1,4-Dioxane	3.75	3.71	3.88	98.9	103	70.0-140			4.48	25
Ethanol	3.75	4.30	4.04	115	108	55.0-148			6.24	25
Ethylbenzene	3.75	3.90	3.71	104	98.9	70.0-130			4.99	25
4-Ethyltoluene	3.75	3.93	3.84	105	102	70.0-130			2.32	25
Trichlorofluoromethane	3.75	3.68	3.66	98.1	97.6	70.0-130			0.545	25
Dichlorodifluoromethane	3.75	3.64	3.65	97.1	97.3	64.0-139			0.274	25
1,1,2-Trichlorotrifluoroethane	3.75	3.69	3.69	98.4	98.4	70.0-130			0.000	25
1,2-Dichlorotetrafluoroethane	3.75	3.68	3.63	98.1	96.8	70.0-130			1.37	25
Heptane	3.75	3.98	4.06	106	108	70.0-130			1.99	25
Hexachloro-1,3-butadiene	3.75	3.77	3.65	101	97.3	70.0-151			3.23	25
n-Hexane	3.75	3.93	3.87	105	103	70.0-130			1.54	25
Isopropylbenzene	3.75	3.81	3.73	102	99.5	70.0-130			2.12	25
Methylene Chloride	3.75	3.65	3.59	97.3	95.7	70.0-130			1.66	25
Methyl Butyl Ketone	3.75	3.87	3.97	103	106	70.0-149			2.55	25
2-Butanone (MEK)	3.75	3.75	3.67	100	97.9	70.0-130			2.16	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R4014017-1 12/18/23 09:06 • (LCSD) R4014017-2 12/18/23 09:35

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	3.45	3.51	92.0	93.6	70.0-139			1.72	25
Methyl methacrylate	3.75	3.77	3.78	101	101	70.0-130			0.265	25
MTBE	3.75	3.75	3.69	100	98.4	70.0-130			1.61	25
Naphthalene	3.75	4.06	4.13	108	110	70.0-159			1.71	25
2-Propanol	3.75	3.84	3.86	102	103	70.0-139			0.519	25
Propene	3.75	3.70	3.65	98.7	97.3	64.0-144			1.36	25
Styrene	3.75	3.86	3.85	103	103	70.0-130			0.259	25
1,1,2,2-Tetrachloroethane	3.75	3.85	3.80	103	101	70.0-130			1.31	25
Tetrachloroethylene	3.75	3.62	3.70	96.5	98.7	70.0-130			2.19	25
Tetrahydrofuran	3.75	3.77	3.75	101	100	70.0-137			0.532	25
Toluene	3.75	3.73	3.75	99.5	100	70.0-130			0.535	25
1,2,4-Trichlorobenzene	3.75	3.76	3.77	100	101	70.0-160			0.266	25
1,1,1-Trichloroethane	3.75	3.66	3.64	97.6	97.1	70.0-130			0.548	25
1,1,2-Trichloroethane	3.75	3.63	3.69	96.8	98.4	70.0-130			1.64	25
Trichloroethylene	3.75	3.77	3.80	101	101	70.0-130			0.793	25
1,2,4-Trimethylbenzene	3.75	3.93	3.82	105	102	70.0-130			2.84	25
1,3,5-Trimethylbenzene	3.75	3.91	3.80	104	101	70.0-130			2.85	25
2,2,4-Trimethylpentane	3.75	3.96	3.88	106	103	70.0-130			2.04	25
Vinyl chloride	3.75	3.74	3.59	99.7	95.7	70.0-130			4.09	25
Vinyl Bromide	3.75	3.67	3.61	97.9	96.3	70.0-130			1.65	25
Vinyl acetate	3.75	3.37	3.27	89.9	87.2	70.0-130			3.01	25
m&p-Xylene	7.50	7.81	7.58	104	101	70.0-130			2.99	25
o-Xylene	3.75	3.92	3.85	105	103	70.0-130			1.80	25
TPH (GC/MS) Low Fraction	188	186	186	98.9	98.9	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				101	100	60.0-140				

¹Cp

²Tc

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⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4014121-3 12/18/23 09:56

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
Toluene	U		0.0870	0.500
(S) 1,4-Bromofluorobenzene	97.2			60.0-140

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

(LCS) R4014121-1 12/18/23 09:04 • (LCSD) R4014121-2 12/18/23 09:31

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	4.29	4.21	114	112	70.0-130			1.88	25
Heptane	3.75	4.72	4.68	126	125	70.0-130			0.851	25
n-Hexane	3.75	4.26	4.27	114	114	70.0-130			0.234	25
Toluene	3.75	4.26	4.16	114	111	70.0-130			2.38	25
(S) 1,4-Bromofluorobenzene				99.1	98.8	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

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⁸Gl

⁹Al

¹⁰Sc

Released to Imaging: 4/22/2024 11:27:12 AM



ANALYTICAL REPORT

December 15, 2023

Ensolum, LLC

Sample Delivery Group: L1687262
Samples Received: 12/13/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

Entire Report Reviewed By:

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 L1687262-01	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 L1687262-01 Air

Collected by
Shane Diller

Collected date/time
12/11/23 12:07

Received date/time
12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2189377	100	12/15/23 05:10	12/15/23 05:10	MNP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

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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.



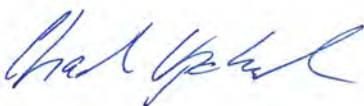
Chad A Upchurch
Project Manager

- 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: 12/15/2023 16:25					
Project Name: Levey Well		Laboratory Job Number: L1687262-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2189377					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

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

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 12/15/2023 16:25					
Project Name: Levey Well		Laboratory Job Number: L1687262-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2189377					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 12/15/2023 16:25	
Project Name: Levey Well		Laboratory Job Number: L1687262-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2189377	
ER # ¹	Description		
1	TO-15 WG2189377 1,1,2-Trichlorotrifluoroethane: Percent Recovery is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 12/11/23 12:07

L1687262

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	521	1240		100	WG2189377
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2189377
Benzene	71-43-2	78.10	20.0	63.9	54.4	174		100	WG2189377
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2189377
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2189377
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2189377
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2189377
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2189377
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2189377
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2189377
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2189377
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2189377
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2189377
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2189377
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2189377
Cyclohexane	110-82-7	84.20	20.0	68.9	414	1430		100	WG2189377
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2189377
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2189377
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2189377
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2189377
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2189377
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2189377
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2189377
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2189377
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2189377
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2189377
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2189377
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2189377
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2189377
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2189377
Ethanol	64-17-5	46.10	250	471	643	1210	B	100	WG2189377
Ethylbenzene	100-41-4	106	20.0	86.7	199	863		100	WG2189377
4-Ethyltoluene	622-96-8	120	20.0	98.2	29.5	145		100	WG2189377
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2189377
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2189377
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND	J4	100	WG2189377
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2189377
Heptane	142-82-5	100	20.0	81.8	684	2800		100	WG2189377
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2189377
n-Hexane	110-54-3	86.20	63.0	222	1250	4410		100	WG2189377
Isopropylbenzene	98-82-8	120.20	20.0	98.3	28.9	142		100	WG2189377
Methylene Chloride	75-09-2	84.90	20.0	69.4	50.3	175		100	WG2189377
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2189377
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2189377
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2189377
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2189377
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2189377
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2189377
2-Propanol	67-63-0	60.10	125	307	2450	6020		100	WG2189377
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2189377
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2189377
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2189377
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2189377
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2189377
Toluene	108-88-3	92.10	50.0	188	900	3390		100	WG2189377
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2189377

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/11/23 12:07

L1687262

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	WG2189377
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2189377
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2189377
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	151	741		100	WG2189377
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	60.9	299		100	WG2189377
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	96.3	450		100	WG2189377
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2189377
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2189377
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2189377
m&p-Xylene	1330-20-7	106	40.0	173	617	2670		100	WG2189377
o-Xylene	95-47-6	106	20.0	86.7	184	798		100	WG2189377
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	31700	131000		100	WG2189377
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.6				WG2189377

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4013065-3 12/14/23 12:16

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	1.41	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

L1687262-01

Method Blank (MB)

(MB) R4013065-3 12/14/23 12:16

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	90.7			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R4013065-1 12/14/23 09:14 • (LCSD) R4013065-2 12/14/23 09:58

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	3.76	3.71	100	98.9	70.0-130			1.34	25
Allyl chloride	3.75	4.27	4.28	114	114	70.0-130			0.234	25
Benzene	3.75	3.90	3.92	104	105	70.0-130			0.512	25
Benzyl Chloride	3.75	3.90	4.00	104	107	70.0-152			2.53	25

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

(LCS) R4013065-1 12/14/23 09:14 • (LCSD) R4013065-2 12/14/23 09:58

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	3.81	3.84	102	102	70.0-130			0.784	25
Bromoform	3.75	3.27	3.29	87.2	87.7	70.0-130			0.610	25
Bromomethane	3.75	3.98	3.91	106	104	70.0-130			1.77	25
1,3-Butadiene	3.75	3.49	3.51	93.1	93.6	70.0-130			0.571	25
Carbon disulfide	3.75	3.74	3.82	99.7	102	70.0-130			2.12	25
Carbon tetrachloride	3.75	3.95	3.89	105	104	70.0-130			1.53	25
Chlorobenzene	3.75	3.81	3.80	102	101	70.0-130			0.263	25
Chloroethane	3.75	3.55	3.62	94.7	96.5	70.0-130			1.95	25
Chloroform	3.75	3.78	3.87	101	103	70.0-130			2.35	25
Chloromethane	3.75	3.50	3.47	93.3	92.5	70.0-130			0.861	25
2-Chlorotoluene	3.75	3.95	4.02	105	107	70.0-130			1.76	25
Cyclohexane	3.75	3.68	3.80	98.1	101	70.0-130			3.21	25
Dibromochloromethane	3.75	3.72	3.76	99.2	100	70.0-130			1.07	25
1,2-Dibromoethane	3.75	3.79	3.81	101	102	70.0-130			0.526	25
1,2-Dichlorobenzene	3.75	4.20	4.17	112	111	70.0-130			0.717	25
1,3-Dichlorobenzene	3.75	4.04	4.17	108	111	70.0-130			3.17	25
1,4-Dichlorobenzene	3.75	4.11	4.22	110	113	70.0-130			2.64	25
1,2-Dichloroethane	3.75	3.76	3.77	100	101	70.0-130			0.266	25
1,1-Dichloroethane	3.75	3.80	3.79	101	101	70.0-130			0.264	25
1,1-Dichloroethene	3.75	4.70	4.73	125	126	70.0-130			0.636	25
cis-1,2-Dichloroethene	3.75	3.62	3.74	96.5	99.7	70.0-130			3.26	25
trans-1,2-Dichloroethene	3.75	3.75	3.80	100	101	70.0-130			1.32	25
1,2-Dichloropropane	3.75	3.78	3.75	101	100	70.0-130			0.797	25
cis-1,3-Dichloropropene	3.75	3.78	3.78	101	101	70.0-130			0.000	25
trans-1,3-Dichloropropene	3.75	3.73	3.71	99.5	98.9	70.0-130			0.538	25
1,4-Dioxane	3.75	3.83	3.75	102	100	70.0-140			2.11	25
Ethanol	3.75	4.60	4.60	123	123	55.0-148			0.000	25
Ethylbenzene	3.75	3.82	3.83	102	102	70.0-130			0.261	25
4-Ethyltoluene	3.75	3.92	3.97	105	106	70.0-130			1.27	25
Trichlorofluoromethane	3.75	4.05	4.02	108	107	70.0-130			0.743	25
Dichlorodifluoromethane	3.75	3.85	3.86	103	103	64.0-139			0.259	25
1,1,2-Trichlorotrifluoroethane	3.75	4.24	5.09	113	136	70.0-130		J4	18.2	25
1,2-Dichlorotetrafluoroethane	3.75	3.81	3.80	102	101	70.0-130			0.263	25
Heptane	3.75	3.76	3.85	100	103	70.0-130			2.37	25
Hexachloro-1,3-butadiene	3.75	4.46	4.48	119	119	70.0-151			0.447	25
n-Hexane	3.75	3.60	3.54	96.0	94.4	70.0-130			1.68	25
Isopropylbenzene	3.75	3.88	3.86	103	103	70.0-130			0.517	25
Methylene Chloride	3.75	3.41	3.40	90.9	90.7	70.0-130			0.294	25
Methyl Butyl Ketone	3.75	3.29	3.31	87.7	88.3	70.0-149			0.606	25
2-Butanone (MEK)	3.75	3.73	3.82	99.5	102	70.0-130			2.38	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R4013065-1 12/14/23 09:14 • (LCSD) R4013065-2 12/14/23 09:58

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	3.48	3.52	92.8	93.9	70.0-139			1.14	25
Methyl methacrylate	3.75	3.68	3.62	98.1	96.5	70.0-130			1.64	25
MTBE	3.75	3.70	3.72	98.7	99.2	70.0-130			0.539	25
Naphthalene	3.75	4.08	4.18	109	111	70.0-159			2.42	25
2-Propanol	3.75	3.61	3.65	96.3	97.3	70.0-139			1.10	25
Propene	3.75	3.42	3.40	91.2	90.7	64.0-144			0.587	25
Styrene	3.75	3.91	3.99	104	106	70.0-130			2.03	25
1,1,2,2-Tetrachloroethane	3.75	3.72	3.89	99.2	104	70.0-130			4.47	25
Tetrachloroethylene	3.75	4.06	4.08	108	109	70.0-130			0.491	25
Tetrahydrofuran	3.75	3.35	3.47	89.3	92.5	70.0-137			3.52	25
Toluene	3.75	3.82	3.81	102	102	70.0-130			0.262	25
1,2,4-Trichlorobenzene	3.75	4.22	4.39	113	117	70.0-160			3.95	25
1,1,1-Trichloroethane	3.75	3.83	3.91	102	104	70.0-130			2.07	25
1,1,2-Trichloroethane	3.75	3.92	3.87	105	103	70.0-130			1.28	25
Trichloroethylene	3.75	3.88	3.87	103	103	70.0-130			0.258	25
1,2,4-Trimethylbenzene	3.75	3.93	4.01	105	107	70.0-130			2.02	25
1,3,5-Trimethylbenzene	3.75	4.04	4.05	108	108	70.0-130			0.247	25
2,2,4-Trimethylpentane	3.75	3.45	3.51	92.0	93.6	70.0-130			1.72	25
Vinyl chloride	3.75	3.71	3.79	98.9	101	70.0-130			2.13	25
Vinyl Bromide	3.75	3.82	3.89	102	104	70.0-130			1.82	25
Vinyl acetate	3.75	3.62	3.62	96.5	96.5	70.0-130			0.000	25
m&p-Xylene	7.50	7.80	7.99	104	107	70.0-130			2.41	25
o-Xylene	3.75	3.86	3.92	103	105	70.0-130			1.54	25
TPH (GC/MS) Low Fraction	188	179	179	95.2	95.2	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				93.5	96.0	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.
J4	The associated batch QC was outside the established quality control range for accuracy.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

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ANALYTICAL REPORT

December 28, 2023

Ensolum, LLC

Sample Delivery Group: L1690590

Samples Received: 12/21/2023

Project Number: 3B1417001

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 L1690590-01	9	⁶ Sr
LEVEY WELL L1690590-02	11	
LEVEY WELL L1690590-03	13	⁷ Qc
Qc: Quality Control Summary	15	⁸ Gl
Volatile Organic Compounds (MS) by Method TO-15	15	
Gl: Glossary of Terms	20	⁹ Al
Al: Accreditations & Locations	21	
Sc: Sample Chain of Custody	22	¹⁰ Sc

LEVEY WELL L1690590-01 Air

Collected by
Shane Diller

Collected date/time
12/18/23 09:48

Received date/time
12/21/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2195147	100	12/23/23 16:48	12/23/23 16:48	GH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2196437	2000	12/27/23 20:02	12/27/23 20:02	SDS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

LEVEY WELL L1690590-02 Air

Collected by
Shane Diller

Collected date/time
12/18/23 12:37

Received date/time
12/21/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2195147	100	12/23/23 17:30	12/23/23 17:30	GH	Mt. Juliet, TN

LEVEY WELL L1690590-03 Air

Collected by
Shane Diller

Collected date/time
12/18/23 13:38

Received date/time
12/21/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2195147	100	12/23/23 18:12	12/23/23 18:12	GH	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

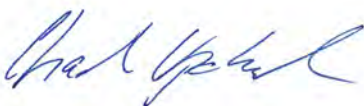
¹⁰ Sc

Laboratory Data Package Cover Page

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

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

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



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 12/28/2023 10:34				
Project Name: Levey Well			Laboratory Job Number: L1690590-01, 02 and 03				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2195147 and WG2196437				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

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

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 12/28/2023 10:34				
Project Name: Levey Well			Laboratory Job Number: L1690590-01, 02 and 03				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2195147 and WG2196437				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 12/28/2023 10:34	
Project Name: Levey Well		Laboratory Job Number: L1690590-01, 02 and 03	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2195147 and WG2196437	
ER #¹	Description		
1	TO-15 WG2195147 2-Butanone (MEK), 1,3,5-Trimethylbenzene: Percent Recovery is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 12/18/23 09:48

L1690590

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	770	1830		100	WG2195147
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2195147
Benzene	71-43-2	78.10	20.0	63.9	282	901		100	WG2195147
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2195147
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2195147
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2195147
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2195147
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2195147
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2195147
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2195147
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2195147
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2195147
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2195147
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2195147
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2195147
Cyclohexane	110-82-7	84.20	20.0	68.9	3990	13700		100	WG2195147
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2195147
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2195147
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2195147
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2195147
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2195147
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2195147
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2195147
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2195147
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2195147
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2195147
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2195147
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2195147
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2195147
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2195147
Ethanol	64-17-5	46.10	250	471	616	1160		100	WG2195147
Ethylbenzene	100-41-4	106	20.0	86.7	145	629		100	WG2195147
4-Ethyltoluene	622-96-8	120	20.0	98.2	39.1	192		100	WG2195147
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2195147
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2195147
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2195147
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2195147
Heptane	142-82-5	100	20.0	81.8	2780	11400		100	WG2195147
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2195147
n-Hexane	110-54-3	86.20	1260	4440	30900	109000		2000	WG2196437
Isopropylbenzene	98-82-8	120.20	20.0	98.3	30.3	149		100	WG2195147
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2195147
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2195147
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND	J4	100	WG2195147
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2195147
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2195147
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2195147
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2195147
2-Propanol	67-63-0	60.10	125	307	1960	4820		100	WG2195147
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2195147
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2195147
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2195147
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2195147
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2195147
Toluene	108-88-3	92.10	50.0	188	1200	4520		100	WG2195147
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2195147

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/18/23 09:48

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	WG2195147
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2195147
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2195147
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	23.3	114		100	WG2195147
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND	J4	100	WG2195147
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2195147
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2195147
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2195147
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2195147
m&p-Xylene	179601-23-1	106	40.0	173	446	1930		100	WG2195147
o-Xylene	95-47-6	106	20.0	86.7	143	620		100	WG2195147
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	127000	525000		100	WG2195147
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.8				WG2195147
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.4				WG2196437

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 12/18/23 12:37

L1690590

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	492	1170		100	WG2195147
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2195147
Benzene	71-43-2	78.10	20.0	63.9	59.3	189		100	WG2195147
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2195147
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2195147
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2195147
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2195147
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2195147
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2195147
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2195147
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2195147
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2195147
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2195147
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2195147
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2195147
Cyclohexane	110-82-7	84.20	20.0	68.9	731	2520		100	WG2195147
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2195147
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2195147
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2195147
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2195147
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2195147
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2195147
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2195147
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2195147
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2195147
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2195147
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2195147
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2195147
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2195147
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2195147
Ethanol	64-17-5	46.10	250	471	814	1530		100	WG2195147
Ethylbenzene	100-41-4	106	20.0	86.7	73.6	319		100	WG2195147
4-Ethyltoluene	622-96-8	120	20.0	98.2	26.3	129		100	WG2195147
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2195147
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2195147
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2195147
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2195147
Heptane	142-82-5	100	20.0	81.8	823	3370		100	WG2195147
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2195147
n-Hexane	110-54-3	86.20	63.0	222	2190	7720		100	WG2195147
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2195147
Methylene Chloride	75-09-2	84.90	20.0	69.4	45.1	157		100	WG2195147
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2195147
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND	J4	100	WG2195147
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2195147
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2195147
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2195147
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2195147
2-Propanol	67-63-0	60.10	125	307	969	2380		100	WG2195147
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2195147
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2195147
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2195147
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2195147
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2195147
Toluene	108-88-3	92.10	50.0	188	530	2000		100	WG2195147
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2195147

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/18/23 12:37

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	20.0	109	ND	ND		100	WG2195147
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2195147
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2195147
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	24.3	119		100	WG2195147
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND	J4	100	WG2195147
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2195147
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2195147
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2195147
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2195147
m&p-Xylene	179601-23-1	106	40.0	173	235	1020		100	WG2195147
o-Xylene	95-47-6	106	20.0	86.7	75.8	329		100	WG2195147
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	25800	107000		100	WG2195147
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.9				WG2195147

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 12/18/23 13:38

L1690590

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	473	1120		100	WG2195147
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2195147
Benzene	71-43-2	78.10	20.0	63.9	169	540		100	WG2195147
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2195147
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2195147
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2195147
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2195147
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2195147
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2195147
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2195147
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2195147
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2195147
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2195147
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2195147
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2195147
Cyclohexane	110-82-7	84.20	20.0	68.9	1870	6440		100	WG2195147
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2195147
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2195147
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2195147
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2195147
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2195147
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2195147
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2195147
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2195147
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2195147
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2195147
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2195147
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2195147
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2195147
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2195147
Ethanol	64-17-5	46.10	250	471	660	1240		100	WG2195147
Ethylbenzene	100-41-4	106	20.0	86.7	283	1230		100	WG2195147
4-Ethyltoluene	622-96-8	120	20.0	98.2	55.2	271		100	WG2195147
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2195147
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2195147
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2195147
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2195147
Heptane	142-82-5	100	20.0	81.8	2720	11100		100	WG2195147
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2195147
n-Hexane	110-54-3	86.20	63.0	222	2780	9800		100	WG2195147
Isopropylbenzene	98-82-8	120.20	20.0	98.3	47.1	232		100	WG2195147
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2195147
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2195147
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND	J4	100	WG2195147
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2195147
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2195147
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2195147
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2195147
2-Propanol	67-63-0	60.10	125	307	863	2120		100	WG2195147
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2195147
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2195147
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2195147
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2195147
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2195147
Toluene	108-88-3	92.10	50.0	188	2310	8700		100	WG2195147
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2195147

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/18/23 13:38

L1690590

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	WG2195147
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2195147
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2195147
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	38.7	190		100	WG2195147
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	27.0	133	J4	100	WG2195147
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2195147
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2195147
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2195147
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2195147
m&p-Xylene	179601-23-1	106	40.0	173	803	3480		100	WG2195147
o-Xylene	95-47-6	106	20.0	86.7	236	1020		100	WG2195147
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	71400	295000		100	WG2195147
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.9				WG2195147

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4016796-3 12/23/23 09:28

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4016796-3 12/23/23 09:28

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	95.9			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R4016796-1 12/23/23 08:00 • (LCSD) R4016796-2 12/23/23 08:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.01	4.00	107	107	70.0-130			0.250	25
Allyl chloride	3.75	4.22	3.51	113	93.6	70.0-130			18.4	25
Benzene	3.75	4.04	3.97	108	106	70.0-130			1.75	25
Benzyl Chloride	3.75	4.17	4.13	111	110	70.0-152			0.964	25

Volatile Organic Compounds (MS) by Method TO-15

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

(LCS) R4016796-1 12/23/23 08:00 • (LCSD) R4016796-2 12/23/23 08:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.14	4.10	110	109	70.0-130			0.971	25
Bromoform	3.75	4.11	4.05	110	108	70.0-130			1.47	25
Bromomethane	3.75	4.14	4.10	110	109	70.0-130			0.971	25
1,3-Butadiene	3.75	3.40	3.52	90.7	93.9	70.0-130			3.47	25
Carbon disulfide	3.75	4.12	4.14	110	110	70.0-130			0.484	25
Carbon tetrachloride	3.75	4.17	4.08	111	109	70.0-130			2.18	25
Chlorobenzene	3.75	4.40	4.35	117	116	70.0-130			1.14	25
Chloroethane	3.75	4.11	3.83	110	102	70.0-130			7.05	25
Chloroform	3.75	4.11	4.13	110	110	70.0-130			0.485	25
Chloromethane	3.75	4.04	4.04	108	108	70.0-130			0.000	25
2-Chlorotoluene	3.75	4.56	4.58	122	122	70.0-130			0.438	25
Cyclohexane	3.75	4.36	4.34	116	116	70.0-130			0.460	25
Dibromochloromethane	3.75	4.05	4.11	108	110	70.0-130			1.47	25
1,2-Dibromoethane	3.75	4.23	4.15	113	111	70.0-130			1.91	25
1,2-Dichlorobenzene	3.75	4.46	4.43	119	118	70.0-130			0.675	25
1,3-Dichlorobenzene	3.75	4.61	4.58	123	122	70.0-130			0.653	25
1,4-Dichlorobenzene	3.75	4.47	4.46	119	119	70.0-130			0.224	25
1,2-Dichloroethane	3.75	4.00	4.19	107	112	70.0-130			4.64	25
1,1-Dichloroethane	3.75	4.10	4.20	109	112	70.0-130			2.41	25
1,1-Dichloroethene	3.75	4.05	4.06	108	108	70.0-130			0.247	25
cis-1,2-Dichloroethene	3.75	4.28	4.12	114	110	70.0-130			3.81	25
trans-1,2-Dichloroethene	3.75	4.23	4.20	113	112	70.0-130			0.712	25
1,2-Dichloropropane	3.75	4.20	4.10	112	109	70.0-130			2.41	25
cis-1,3-Dichloropropene	3.75	4.23	4.28	113	114	70.0-130			1.18	25
trans-1,3-Dichloropropene	3.75	4.11	4.27	110	114	70.0-130			3.82	25
1,4-Dioxane	3.75	3.90	3.77	104	101	70.0-140			3.39	25
Ethanol	3.75	3.17	3.14	84.5	83.7	55.0-148			0.951	25
Ethylbenzene	3.75	4.42	4.28	118	114	70.0-130			3.22	25
4-Ethyltoluene	3.75	4.45	4.34	119	116	70.0-130			2.50	25
Trichlorofluoromethane	3.75	4.15	4.16	111	111	70.0-130			0.241	25
Dichlorodifluoromethane	3.75	4.22	4.31	113	115	64.0-139			2.11	25
1,1,2-Trichlorotrifluoroethane	3.75	4.32	4.33	115	115	70.0-130			0.231	25
1,2-Dichlorotetrafluoroethane	3.75	4.24	4.10	113	109	70.0-130			3.36	25
Heptane	3.75	4.08	4.01	109	107	70.0-130			1.73	25
Hexachloro-1,3-butadiene	3.75	4.62	4.43	123	118	70.0-151			4.20	25
n-Hexane	3.75	4.11	4.05	110	108	70.0-130			1.47	25
Isopropylbenzene	3.75	4.53	4.33	121	115	70.0-130			4.51	25
Methylene Chloride	3.75	3.96	4.02	106	107	70.0-130			1.50	25
Methyl Butyl Ketone	3.75	4.00	4.03	107	107	70.0-149			0.747	25
2-Butanone (MEK)	3.75	4.97	4.61	133	123	70.0-130	J4		7.52	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R4016796-1 12/23/23 08:00 • (LCSD) R4016796-2 12/23/23 08:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.05	4.08	108	109	70.0-139			0.738	25
Methyl methacrylate	3.75	3.93	4.18	105	111	70.0-130			6.17	25
MTBE	3.75	4.29	4.27	114	114	70.0-130			0.467	25
Naphthalene	3.75	4.77	4.67	127	125	70.0-159			2.12	25
2-Propanol	3.75	3.66	3.65	97.6	97.3	70.0-139			0.274	25
Propene	3.75	3.52	3.53	93.9	94.1	64.0-144			0.284	25
Styrene	3.75	4.46	4.33	119	115	70.0-130			2.96	25
1,1,2,2-Tetrachloroethane	3.75	4.33	4.25	115	113	70.0-130			1.86	25
Tetrachloroethylene	3.75	4.48	4.57	119	122	70.0-130			1.99	25
Tetrahydrofuran	3.75	3.98	4.07	106	109	70.0-137			2.24	25
Toluene	3.75	4.23	4.25	113	113	70.0-130			0.472	25
1,2,4-Trichlorobenzene	3.75	4.83	4.74	129	126	70.0-160			1.88	25
1,1,1-Trichloroethane	3.75	4.28	4.14	114	110	70.0-130			3.33	25
1,1,2-Trichloroethane	3.75	4.30	4.21	115	112	70.0-130			2.12	25
Trichloroethylene	3.75	4.35	4.32	116	115	70.0-130			0.692	25
1,2,4-Trimethylbenzene	3.75	4.50	4.34	120	116	70.0-130			3.62	25
1,3,5-Trimethylbenzene	3.75	5.21	5.12	139	137	70.0-130	J4	J4	1.74	25
2,2,4-Trimethylpentane	3.75	4.34	4.32	116	115	70.0-130			0.462	25
Vinyl chloride	3.75	3.87	3.97	103	106	70.0-130			2.55	25
Vinyl Bromide	3.75	4.24	4.26	113	114	70.0-130			0.471	25
Vinyl acetate	3.75	4.11	4.12	110	110	70.0-130			0.243	25
m&p-Xylene	7.50	8.81	8.64	117	115	70.0-130			1.95	25
o-Xylene	3.75	4.41	4.43	118	118	70.0-130			0.452	25
TPH (GC/MS) Low Fraction	188	199	198	106	105	70.0-130			0.504	25
(S) 1,4-Bromofluorobenzene				102	98.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1690590-01](#)

Method Blank (MB)

(MB) R4017411-3 12/27/23 09:28

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	99.6			60.0-140

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

(LCS) R4017411-1 12/27/23 08:30 • (LCSD) R4017411-2 12/27/23 08:59

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	3.49	3.50	93.1	93.3	70.0-130			0.286	25
(S) 1,4-Bromofluorobenzene				107	106	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

J4The associated batch QC was outside the established quality control range for accuracy.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Company Name/Address:
Ensolum, LLC

601 Marienfeld #400
Midland, TX 79701

Billing Information:
Accounts Payable
2351 W Northwest Hwy. Ste.
1203
Dallas, TX 75220

Report to:
Beaux Jennings

Project Description:
Levey Well

City/State
Collected: **Hobbs NM**

Please Circle:
PT MT CT ET

Phone: **210-219-8858**

Client Project #
03B1417001

Lab Project #
ENSOLUMMTX-SUMMA

Collected by (print):
Shane Diller

Site/Facility ID #
03B1417001

P.O. #
03B1417001

Collected by (signature):

Rush? (Lab MUST Be Notified)
☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☒ Three Day

Quote #

Date Results Needed

No. of Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

1

12-18-23

948

1

X

Levey Well

G

Air

-

12-18-23

948

1

X

Levey Well

G

Air

-

12-18-23

1237

Levey Well

G

Air

-

12-18-23

1338

NFE

12-18-23

SL

Analysis / Container / Preservative

Chain of Custody

Page 1 of 1

Pace Analytical
National Center for Testing & Innovation

Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Size: ☒ 1L ☐ 6L ☐ 1.4L
Tag Color: ☒ G ☐ W ☐ B
Tubing: ☒ Shunt ☐ B

Terms of Sale
COC # **1154**
Acctnum: **ENSOLUMMTX**
Template: **T180734**
Prelogin: **P827709**
PM: **134 - Mark W. Beasley**
PB:
Shipped Via:
Remarks
Sample # (lab only)

Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Sample Receipt Checklist
If preservation required by Login: Date/Time
Hold:
Condition: **NCF / OK**

* Matrix:
SS - Soil **AIR - Air** **F - Filter**
GW - Groundwater **B - Bioassay**
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:
12/19/23

Time:
11:56

Received by: (Signature)

Trip Blank Received: Yes/No
☒ Yes ☐ No
HCL/MedH
TBR

Relinquished by: (Signature)

Date:
12/19/23

Time:
12:15

Received by: (Signature)

Temp: **40** °C
Bottles Received:

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:
12/21

Time:
1000

Hold:

Condition:
NCF / OK



APPENDIX D

Levey Well Pressure Reading Documentation

Released to Imaging: 4/22/2024 11:27:12 AM

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 314637

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 314637
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	GAS MITIGATION MONTHLY REPORT – December 2023 Property: South Hobbs G/SA Unit. Accepted for the record.	4/22/2024