ENSOLUM

GAS MITIGATION MONTHLY REPORT - APRIL 2022

Property:

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

New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981

July 11, 2022

Prepared for:

Occidental Permian LTD
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GAS MITIGATION MONTHLY REPORT – APRIL 2022

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

1.0 INTRODUCTION

1.1 Site Description & Background

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

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

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

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

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

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

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

OXY's groundwater monitoring program included the collection of a groundwater sample from each monitoring well (MW-1 and MW- 2). The monitoring wells were gauged and sampled on May 26, June 30, August 20, October 23, November 24, December 18, 2020, and weekly thereafter. The Levey Well has been sampled consistently from December 6, 2019, to April 28, 2022. The groundwater samples collected from the monitoring wells (MW-1 and MW-2) were analyzed for total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) utilizing Environmental Protection Agency (EPA) Method 8015M, volatile organic compounds (VOCs) utilizing EPA Method SW-846 #8260 (full list), carbon dioxide utilizing Standard Method 4500 CO2 C, dissolved sulfide utilizing EPA Method SW-846 #376.2, chloride using EPA Method SW-846 #300.0 and pH utilizing EPA Method SW-846 #150.1. The groundwater samples collected from the Levey Well were analyzed for VOCs, recoverable metals per ICP by EPA 200.7, inorganic anions by EPA 300/300.1, pH by SM4500-H, total dissolved solids (TDS) by SM2540C, alkalinity by SM2320B and cation-anion balance by SM1030E.

During the April 2022 groundwater sampling event the groundwater samples did not exhibit constituent concentrations above New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (*GQSs*), with the exception of benzene, Nitrite as N and TDS. Benzene concentrations ranged from 0.0246 milligrams per liter (mg/L) to 0.0384 mg/L in monitoring well MW-2. Nitrite as N concentrations ranged from 0.434 mg/L to 1.67 mg/L in monitoring well MW-2. TDS analytical results ranged from 1,140 mg/L to 1,260 mg/L in the Levey Well, which exceeds the applicable WQCC GQS of 1,000 mg/L. 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 (3) aforementioned wells since July 15, 2020. All detections of H_2S prior to July 15, 2020, were within the well bore. No H_2S above permissible exposure limits was observed outside of the well bores.

OXY installed pressure reading charts at the Levey Well to measure the potential for any returning pressure at the well. These charts measure pressure 24 hours a day and show that no pressure has returned to the Levey Well. Monitoring wells MW-1 and MW-2 were physically monitored for the presence of gas and pressure on several dates from 7/1/2020 to 5/3/2022, with no pressure observed in either monitoring well. The pressure reading charts available for April 2022 are included in **Appendix D**.

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

> *As free-phase gas spreads vertically and/or laterally from a source of release, it can become trapped beneath low permeability sediments (e.g., the "red beds" which separate the overlying Ogallala aquifer from the underlying Santa Rosa). Irregularities in the base topography of these barriers can result in discretized pools of free-phase gas. In many ways, this trapping and accumulation of free-phase gases beneath impermeable units is analogous to the development of structural traps that form in conventional oil and gas reservoirs. This phenomenon can also be viewed as the conceptual inverse of a chlorinated solvent release (a dense NAPL, or "DNAPL") in which the dense liquid can migrate downward through the groundwater via available pathways, until encountering a resistant layer, where the dense liquid pools and accumulates.*
>
> *In water supply wells, free-phase gas entry is most likely to occur when water levels are lowered in a well by pumping or drought, because this reduces the pressure head resisting gas entry from the formation into the well (Gorody 2012, Molofsky et al. 2018). This may allow free-phase gas to enter the well from one unit (e.g., red bed), while water is primarily originating from another (e.g., the Ogallala aquifer). When the two phases (free-phase gas from the red bed and groundwater from the Ogallala) mix in the water well, there is relatively little time for equilibration under pumping conditions; consequently, dissolved gas concentrations may be very low even though free-phase gas is observed in the well headspace.*

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

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

1.2 Groundwater Recovery – Levey Well

As of July 1, 2021, the Levey Well has run full time and recovered groundwater is transferred via flowline to a nearby tank for proper disposal. The groundwater recovered from the Levey Well during March 14 - 31, 2022 was approximately 248,374 gallons. Due to a severe winter storm on February 2, 2022, the Levey well flowline pump was damaged. Replacement parts were ordered, the pump was repaired and has been active as of March 14, 2022.

1.3 Gas Recovery – Levey Well

OXY conducted two (2) vacuum recovery events during the month of April 2022 with positive results as shown on **Table 4** in **Appendix B**. The purpose of these events is 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 once every two (2) weeks until the sampling results of the air is minimal after displacement of the overlying pressure, or the process proves to become ineffective.

2.0 AIR AND GROUNDWATER MONITORING

2.1 Air Sampling Program

Levey Well

The air samples on April 11 and 25, 2022 were taken prior to, during, and subsequent to each vacuum recovery event utilizing a Summa® canister. Upon arrival at the Site, the Levey Well is turned off and allowed to stabilize for approximately one (1) hour. An air sample is taken after one (1) hour of the Levey Well stabilization, prior to initiating the vacuum recovery event. The vacuum is applied to the Levey Well for a duration of approximately one (1) hour. Approximately 15 minutes and 45 minutes into the event, an air sample is taken. The vacuum is then turned off and an additional air sample from the Levey Well is taken one (1) hour subsequent to each vacuum recovery event. Water was not recovered during either 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 April 2022 sampling events are provided in **Appendix C**.

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2.2 Groundwater Sampling Program

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

Levey Well

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

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

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

Monitoring Wells MW-1 and MW-2

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

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

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

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

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

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

Once initiated, an air sample is taken at 15 minutes and 45 minutes into the vacuum recovery event. During each of the vacuum recovery events, acetone, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, 2-Butanone (MEK), toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene and TPH concentrations significantly decrease throughout the duration of the event.

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

Air samples are also collected on a bi-weekly basis approximately one (1) week subsequent to the vacuum recovery event. During each of the bi-weekly air sampling events, elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-Butanone (MEK), 2-propanol, 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 April 2022 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.

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Levey Well

TDS analytical results ranged from 1,140 mg/L to 1,260 mg/L in the Levey Well, which exceeds the applicable WQCC GQS of 1,000 mg/L. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three (3) groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). Specifically, for the 20 water supply wells sampled by the USGS in Southern Lea County with TDS analyses, the median TDS concentration was 722 mg/L, and the 75th percentile TDS concentration was 1,953 mg/L.

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

Monitoring Well MW-1 and MW-2

The groundwater samples collected from monitoring well MW-1 did not exhibit benzene concentrations above the WQCC GQS of 0.005 mg/L. The groundwater samples collected from monitoring well MW-2 exhibited benzene concentrations ranging from 0.0246 mg/L to 0.0384 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

The groundwater samples collected from monitoring well MW-1 did not exhibit Nitrite as N concentrations above the WQCC GQS of 1.0 mg/L. Several Nitrite as N exceedances of 1.60 mg/L and 1.67 mg/L from monitoring well MW-2 were observed during the April 2022 sampling, which are above the WQCC GQS of 1.0 mg/L.

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

4.0 RECOMMENDATIONS

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

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

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

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

- **Implement monthly sampling for water and air on the Levey Well and monitoring wells MW-1 and MW-2 for the remainder of 2022.**

5.0 REFERENCES

GSI Environmental Inc. Preliminary Draft -Results of Water Supply Well Sampling and Investigation. November 2019. Hobbs New Mexico Municipal Code, Title 13.04.017. Accessed Sept. 2020.

New Mexico Environment Department. 2018. 20.6.2 NMAC: Title 20 (Environmental Protection), Chapter 6 (Water Quality), Part 2 (Ground and Surface Water Protection). Amended December 11th, 2019.

Nicholson, Jr. A. and A. Clebsch, Jr. 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. United States Geological Survey Ground-Water Report 6. Prepared in cooperation with the 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 in groundwater. 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.

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APPENDIX A

Figures and Graphs



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Environmental & Hydrogeologic Consultants

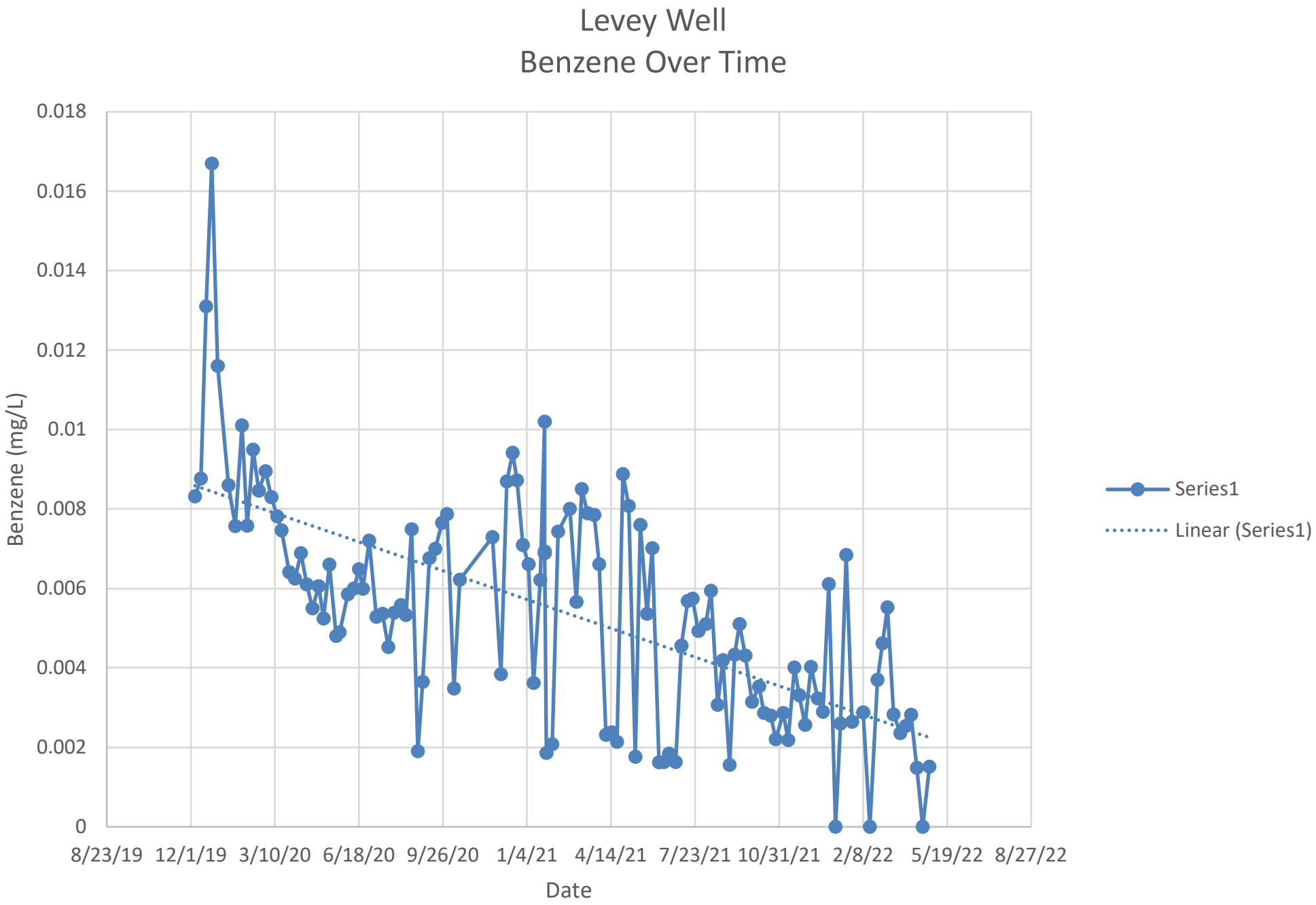
SITE MAP

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

PROJECT NUMBER: 03B1417001

FIGURE
1

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APPENDIX B

Tables

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TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	Date	VOCs (mg/l)																										
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	12/6/2019	0.00832	0.0708	0.0296	0.0242	0.129	0.153	<0.0500	0.00151	0.00206	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00138	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0126	<0.0100	0.00566	<0.00100	<0.00100	0.0358	0.0106
	12/13/2019	0.00877	0.0654	0.0271	0.0233	0.121	0.144	<0.0500	0.00118	0.00171	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00112	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0112	<0.0100	0.00470	<0.00100	<0.00100	0.0315	0.00944
	12/19/2019	0.0131	0.0861	0.0385	0.0318	0.170	0.202	0.0125 J	0.00187	0.00257	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00173	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0170	<0.00200	0.00747	<0.000228	<0.000162	0.0469	0.0144
	12/26/2019	0.0167	0.112	0.0514	0.0459	0.210	0.256	<0.0500	0.00211	0.00320	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00183	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0235	<0.0100	0.00934	<0.00100	<0.00100	0.0672	0.0168
	1/2/2020	0.0116	0.0644	0.0551	0.0805	0.232	0.313	<0.0500	0.00231	0.00164	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00127	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0107	0.0120	0.00544	<0.00100	0.00243	0.0377	0.0106
	1/15/2020	0.00860	0.0528	0.0318	0.0219	0.119	0.141	<0.0500	<0.00100	0.00259	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0148	<0.0100	0.0104	<0.00100	<0.00100	0.0547	0.0172
	1/23/2020	0.00757	0.0462	0.0318	0.0224	0.119	0.141	<0.0500	0.00233	0.00295	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00180	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0158	<0.0100	0.0166	<0.00100	<0.00100	0.103	0.0300
	1/31/2020	0.0101	0.0567	0.0462	0.0385	0.166	0.205	<0.500	<0.0100	<0.0100	0.0438	<0.00100	<0.0100	NA	0.0343	0.0344	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	0.0584	0.0262	<0.100	0.0458	<0.0100	<0.0100	0.323	0.0847
	2/6/2020	0.00758	0.0489	0.0306	0.0242	0.116	0.140	<0.0500	0.00234	0.00299	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00165	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0174	<0.0100	0.0237	<0.00100	<0.00100	0.285	0.0451
	2/13/2020	0.00949	0.0498	0.0397	0.0337	0.145	0.179	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00251	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0251	<0.0100	0.0450	<0.00100	<0.00100	0.349	0.0898
	2/20/2020	0.00846	0.0326	0.0313	0.0248	0.113	0.138	<0.0500	<0.00100	0.00407	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00229	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0208	<0.0100	0.0431	<0.00100	<0.00100	0.322	0.0918
	2/28/2020	0.00895	0.0351	0.0374	0.0251	0.124	0.149	<0.250	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	<0.00500	<0.00500	<0.00500	<0.00500	<0.0250	<0.00500	<0.00500	<0.0250	0.0249	<0.0500	0.0488	<0.00500	<0.00500	0.358	0.0989
	3/6/2020	0.00830	0.0313	0.0346	0.0228	0.114	0.137	<0.0500	0.00374	0.00467	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00254	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0231	<0.0100	0.0472	<0.00100	<0.00100	0.378	0.0948
	3/13/2020	0.00781	0.0302	0.0330	0.0203	0.109	0.129	<0.0500	0.00153	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00247	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0224	<0.0100	0.0428	<0.00100	<0.00100	0.277	0.0875
	3/18/2020	0.00746	0.0279	0.0304	0.0174	0.0981	0.116	<0.0500	0.00311	0.00400	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00224	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0199	<0.0100	0.0365	<0.00100	<0.00100	0.275	0.0777
	3/27/2020	0.00641	0.0151	0.0247	0.0132	0.0737	0.0869	<0.0500	0.00122	0.00345	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00189	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0166	<0.0100	0.0336	<0.00100	<0.00100	0.261	0.0721
	4/3/2020	0.00625	0.0129	0.0250	0.0130	0.0745	0.0875	<0.0500	0.00120	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00209	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0174	<0.0100	0.0363	<0.00100	<0.00100	0.273	0.0756
	4/10/2020	0.00689	0.0327	0.0277	0.0159	0.0924	0.108	<0.0500	0.00253	0.00338	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00188	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0171	<0.0100	0.0300	<0.00100	<0.00100	0.264	0.0580
	4/17/2020	0.00610	0.0258	0.0253	0.0141	0.0814	0.0955	<0.0500	0.00238	0.00321	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00175	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0164	<0.0100	0.0280	<0.00100	<0.00100	0.220	0.0562
	4/24/2020	0.00550	0.0241	0.0225	0.0125	0.0756	0.0881	<0.0500	<0.00100	0.00297	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00179	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0148	<0.0100	0.0251	<0.00100	<0.00100	0.199	0.0526
	5/1/2020	0.00606	0.0277	0.0237	0.0129	0.0773	0.0902	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00159	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0143	<0.0100	0.0242	<0.00100	<0.0100	0.185	0.0513
	5/7/2020	0.00524	0.0168	0.0211	0.0108	0.0655	0.0763	<0.0500	<0.00100	0.00306	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00171	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0138	<0.0100	0.0270	<0.00100	<0.0100	0.202	0.0582
	5/14/2020	0.00660	0.0357	0.0268	0.0141	0.0882	0.102	<0.0500	0.00236	0.00324	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00191	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0165	<0.0100	0.0236	<0.00100	<0.00100	0.201	0.0453
	5/22/2020	0.00480	0.00851	0.0193	0.00896	0.0567	0.0657	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00194	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0137	<0.0100	0.0276	<0.00100	<0.00100	0.187	0.0597
	5/26/2020	0.00490	0.0169	0.0210	0.0109	0.0637	0.0746	<0.0500	0.00122	0.00300	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00164	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0138	<0.0100	0.0256	<0.00100	<0.00100	0.192	0.0532
	6/5/2020	0.00585	0.0317	0.0228	0.0117	0.0744	0.0861	<0.0500	0.00183	0.00271	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00155	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0134	<0.0100	0.0182	<0.00100	<0.00100	0.129	0.0367
	6/12/2020	0.00600	0.0299	0.0231	0.0122	0.0757	0.0879	<0.0500	<0.00100	0.00283	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00154	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0135	<0.0100	0.0211	<0.00100	<0.00100	0.150	0.0429
	6/18/2020	0.00648	0.0374	0.0236	0.0129	0.0818	0.0947	<0.0500	<0.00100	0.00256	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0130	<0.0100	0.0162	<0.00100	<0.00100	0.121	0.0336
	6/23/2020	0.00599	0.0311	0.0232	0.0116	0.0771	0.0887	<0.0500	0.00103	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00153	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0137	<0.0100	0.0193	<0.00100	<0.00100	0.135	0.0385
	6/30/2020	0.00720	0.0450	0.0276	0.0138	0.0923	0.106	<0.0500	0.00105	0.00306	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00176	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0152	<0.0100	0.0169	<0.00100	<0.00100	0.119	0.0339
	7/9/2020	0.00529	0.0272	0.0203	0.0103	0.0700	0.0803	<0.0500	<0.00100	0.00253	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00136	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0118	<0.0100	0.0156	<0.00100	<0.00100	0.118	0.0328
	7/16/2020	0.00536	0.0316	0.0204	0.0103	0.0684	0.0787	<0.0500	0.00148	0.00252	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00133	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0117	<0.0100	0.0142	<0.00100	<0.00100	0.0944	0.0273
	7/23/2020	0.00452	0.0268	0.0174	0.00895	0.0602	0.0692	<0.0500	<0.00100	0.00199	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00112	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00991	<0.0100	0.0113	<0.00100	<0.00100	0.0775	0.0224
	7/30/2020	0.00539	0.0302	0.0197	0.0100	0.0641	0.0741	<0.0500	<0.00100	0.00210	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00123	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0111	<0.0100	0.0124	<0.00100	<0.00100	0.0751	0.0215
	8/7/2020	0.00558	0.0300	0.0200	0.00987	0.0628	0.0727	<0.0500	<0.00100	0.00215	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00114	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0110	<0.0100	0.0118	<0.00100	<0.00100	0.0707	0.0209
	8/13/2020	0.00533	0.0300	0.0195	0.00978	0.0622	0.0720	<0.0500	<0.00100	0.00196	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00115	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0107	<0.0100	0.0119	<0.00100	<0.00100	0.0710	0.0206
	8/20/2020	0.00749	0.0400	0.0269	0.0128	0.0864	0.0992	<0.0500	<0.00100	0.00292	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00168	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0150	<0.0100	0.0161	<0.00100	<0.00100	0.0988	0.0295
	8/27/2020	0.00190	0.0101	0.00678	0.00322	0.0205	0.0237	<0.0500	<0.00100	0.00104	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00403	<0.0100	0.00459	<0.00100	<0.00100	0.0230	0.00758
	9/2/2020	0.00365	0.0199	0.0132	0.00646	0.0412	0.0477	<0.0500	<0.00100	0.00165	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00749	<0.0100	0.00761	<0.00100	<0.00100	0.0483	0.0410
	9/10/2020	0.00676	0.0358	0.0246	0.0115	0.0760	0.0875	<0.0500	<0.00100	0.00271	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00150	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0132	<0.0100	0.0136	<0.00100	<0.00100	0.0785	0.0226
	9/17/2020	0.00700	0.0381	0.0266	0.0136	0.0849	0.0985	<0.0500	<0.00100	0.00285	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00163	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0146	<0.0100	0.0147	<0.00100	<0.00100	0.0921	0.0262
	9/25/2020	0.00765	0.0415	0.0282	0.0139	0.0909	0.105	<0.0500	<0.00100	0.00307	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00169	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0157	<0.0100	0.0145	<0.00100	<0.00100	0.0860	0.0251
	10/1/2020	0.00787	0.0422	0.0305	0.0151	0.0962	0.1110	<0.0500	0.00191	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00198	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0167	<0.0100	0.0175	<0.00100	<0.00100	0.102	0.0303
	10/9/2020	0.00348	0.0191	0.0123	0.00619	0.0394	0.0456	<0.0500	<0.00100	0.00134	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0069	<0.0100	0.0058	<0.00100	<0.00100	0.0350	0.0102
	10/16/2020	0.00622	0.0325	0.0235	0.0110	0.0739	0.0840	<0.0500	<0.00100	0.00274	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0135	<0.0100	0.0124	<0.00100	<0.00100	0.0730	0.0213
	11/24/2020	0.00729	0.0363	0.0264	0.0128	0.0830	0.09580	<0.0500	<0.00100	0.00276	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00147	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0145	<0.0100	0.0109	<0.00100	<0.00100	0.0641	0.0192
	12/4/2020	0.00384	0.0193	0.0143	0.0065	0.0429	0.04937	<0.0500	0.00121	0.00179	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00110	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0080	<0.0100	0.0061	<0.00100	<0.00100	0.0309	0.0101
	12/11/2020	0.00869	0.0482	0.0319	0.01620	0.102	0.1182	<0.0500	<0.00100	0.00324	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00182	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0167	<0.0100	0.0132	<0.00100	<0.00100	0.0792	0.0232
	12/18/2020	0.00941	0.0736	0.0339	0.0194	0.131	0.150	<0.0500	0.00187	0.00307	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00184	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0169	<0.0100	0.00981	<0.00100	<0.00100	0.0439	0.0148
	12/23/2020	0.00872	0.0739	0.0323	0.0196	0.126	0.146	<0.0500	0.00148	0.00227	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00128	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0153	<0.0100	0.00768	<0.00100	<0.00100	0.0375	0.0124
	12/30/2020	0.00709	0.0560	0.0260	0.0153	0.0998	0.115	<0.0500	0.00143	0.00237	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00133	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0127	<0.0100	0.00719	<0.00100	<0.00100	0.0340	0.0113

Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	Date	VOCs (mg/l)																										
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/6/2021	**0.00661**	**0.0494**	**0.0239**	**0.0141**	**0.0930**	**0.107**	<0.0500	<0.00100	**0.00233**	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00140**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0122**	<0.0100	**0.00710**	<0.00100	<0.00100	**0.0334**	**0.0113**
	1/12/2021	**0.00362**	**0.0206**	**0.0168**	**0.00849**	**0.0547**	**0.0632**	<0.0500	**0.00159**	**0.00278**	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00157**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0105**	<0.0100	**0.00959**	<0.00100	<0.00100	**0.0540**	**0.0174**
	1/20/2021	**0.00621**	**0.0383**	**0.0245**	**0.0137**	**0.0884**	**0.102**	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00159**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0135**	<0.0100	**0.00920**	<0.00100	<0.00100	**0.0470**	**0.0152**
	1/25/2021	**0.0102**	**0.0717**	**0.0337**	**0.0195**	**0.130**	**0.150**	<0.0500	**0.00167**	**0.00287**	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00162**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0162**	<0.0100	**0.00914**	<0.00100	<0.00100	**0.0455**	**0.0149**
	1/25/2021	**0.00689**	**0.0353**	**0.0243**	**0.0113**	**0.0733**	**0.0846**	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00145**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0127**	<0.0100	**0.0115**	<0.00100	<0.00100	**0.0687**	**0.0205**
	1/25/2021	**0.00693**	**0.0342**	**0.0251**	**0.0113**	**0.0737**	**0.0850**	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00146**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0133**	<0.0100	**0.0124**	<0.00100	<0.00100	**0.0738**	**0.0218**
	1/27/2021	**0.00186**	**0.00398**	**0.0101**	**0.00322**	**0.0219**	**0.0251**	<0.0500	**0.00110**	**0.00169**	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.00618**	<0.0100	**0.0125**	<0.00100	<0.00100	**0.0743**	**0.0224**
	2/3/2021	**0.00208**	**0.00551**	**0.0120**	**0.00438**	**0.0262**	**0.0306**	<0.0500	<0.00100	**0.00195**	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00101**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.00756**	<0.0100	**0.0156**	<0.00100	<0.00100	**0.0945**	**0.0282**
	2/10/2021	**0.00743**	**0.0531**	**0.0280**	**0.0157**	**0.104**	**0.120**	<0.0500	**0.00140**	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00145**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0142**	<0.0100	**0.00876**	<0.00100	<0.00100	**0.0448**	**0.0143**
	2/24/2021	**0.00800**	**0.0593**	**0.0287**	**0.0177**	**0.109**	**0.127**	<0.0500	<0.00100	**0.0024**	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00142**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0140**	<0.0100	**0.00808**	<0.00100	<0.00100	**0.0408**	**0.0132**
	3/4/2021	**0.00566**	**0.0446**	**0.0222**	**0.0133**	**0.0869**	**0.100**	<0.0500	<0.00100	**0.00187**	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00110**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0105**	<0.0100	**0.00694**	<0.00100	<0.00100	**0.0390**	**0.0119**
	3/10/2021	**0.00850**	**0.0668**	**0.0314**	**0.0194**	**0.126**	**0.145**	<0.0500	<0.00100	**0.00270**	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	**0.00176**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0156**	<0.0100	**0.00898**	<0.00100	<0.00100	**0.0466**	**0.0150**
	3/17/2021	**0.00789**	**0.0563**	**0.0273**	**0.0168**	**0.103**	**0.120**	**0.0253 J**	**0.000840 J**	**0.00239**	<0.000195	<0.00100	<0.00100	NA	<0.000214	<0.000183	**0.00139**	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	**0.0129**	<0.00200	**0.00830**	<0.000228	<0.000162	**0.0427**	**0.0135**
	3/25/2021	**0.00785**	**0.0585**	**0.0276**	**0.0175**	**0.109**	**0.127**	**0.0206 J**	**0.00129**	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	**0.00143**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0141**	<0.0100	**0.00779**	<0.00100	<0.00100	**0.0416**	<0.00100
	3/31/2021	**0.00661**	**0.0459**	**0.0243**	**0.0143**	**0.0857**	**0.100**	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	**0.00302**	<0.000183	**0.00144**	<0.000244	<0.00500	<0.000174	<0.00100	<0.000481	**0.0129**	<0.00200	**0.00840**	<0.000228	<0.000162	**0.0422**	**0.01370**
	4/8/2021	**0.00231**	**0.00502**	**0.0106**	**0.00358**	**0.0227**	**0.0263**	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	**0.00103**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.00689**	<0.0100	**0.0148**	<0.00100	<0.00100	**0.0951**	**0.0639**
	4/15/2021	**0.00238**	**0.00491**	**0.0109**	**0.00364**	**0.0266**	**0.0302**	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	**0.00109**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.00733**	<0.0100	**0.0162**	<0.00100	<0.00100	**0.111**	<0.00100
	4/21/2021	**0.00214**	**0.00431**	**0.00957**	**0.00340**	**0.0198**	**0.0232**	<0.00270	<0.000286	**0.00181**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00103**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00658**	<0.00200	**0.0149**	<0.000228	<0.000623	**0.109**	**0.0631**
	4/28/2021	**0.00888**	**0.0652**	**0.0325**	**0.0201**	**0.121**	**0.141**	**0.0198 J**	<0.000286	**0.00259**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00163**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0161**	<0.00200	**0.00855**	<0.000228	<0.000623	**0.0431**	**0.0138**
	5/5/2021	**0.00808**	**0.0527**	**0.0257**	**0.0160**	**0.0935**	**0.110**	<0.00270	**0.00135**	**0.00232**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00130**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0121**	<0.00200	**0.00760**	<0.000228	<0.000623	**0.0414**	<0.000279
	5/13/2021	**0.00176**	**0.00332**	**0.00899**	**0.00297**	**0.0187**	**0.0217**	<0.00270	**0.00109**	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000802 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00592**	<0.00200	**0.0139**	<0.000228	<0.000623	**0.0828**	**0.0239**
	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**	**0.0195**
	6/16/2021	**0.00163**	**0.00240**	**0.00673**	**0.00204**	**0.0138**	**0.0158**	<0.00270	<0.000286	**0.00127**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000757 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00461**	<0.00200	**0.0115**	<0.000228	<0.000623	**0.0728**	**0.0210**
	6/22/2021	**0.00184**	**0.00219**	**0.00736**	**0.00186**	**0.0156**	**0.0175**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000682 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00499**	<0.00200	**0.0111**	<0.000228	<0.000623	**0.0714**	**0.0208**
	6/30/2021	**0.00163**	**0.00169**	**0.00698**	**0.00145**	**0.0143**	**0.0158**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000843 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00484**	<0.00200	**0.0128**	<0.000228	<0.000623	**0.0855**	**0.0247**
	7/1/2021	Levey Well Now Running Full Time																											
	7/7/2021	**0.00456**	**0.0252**	**0.0175**	**0.00765**	**0.0555**	**0.0632**	**0.00587 J**	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00117**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00928**	<0.00200	**0.0119**	<0.000228	<0.000623	**0.0785**	**0.0224**
	7/14/2021	**0.00568**	**0.0325**	**0.0228**	**0.00991**	**0.0739**	**0.0838**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00162**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0124**	<0.00200	**0.0146**	<0.000228	<0.000623	**0.0959**	**0.0287**
	7/20/2021	**0.00574**	**0.0332**	**0.0232**	**0.0106**	**0.0758**	**0.0864**	<0.00270	<0.000286	**0.00265**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00163**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0126**	<0.00200	**0.0142**	<0.000228	<0.000623	**0.0914**	**0.0276**
	7/27/2021	**0.00493**	**0.0286**	**0.0190**	**0.00927**	**0.0640**	**0.0733**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00116**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00965**	<0.00200	**0.0104**	<0.000228	<0.000623	**0.0748**	**0.0215**
	8/5/2021	**0.00510**	**0.0319**	**0.0203**	**0.00967**	**0.0690**	**0.0787**	<0.00270	**0.00170**	**0.00236**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00141**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0110**	<0.00200	**0.0122**	<0.000228	<0.000623	**0.0781**	**0.0236**
	8/11/2021	**0.00594**	**0.0400**	**0.0245**	**0.0121**	**0.0864**	**0.0985**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00168**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0131**	<0.00200	**0.0143**	<0.000228	<0.000623	**0.0950**	**0.0279**
	8/19/2021	**0.00307**	**0.0240**	**0.0119**	**0.00625**	**0.0420**	**0.0483**	**0.00782 J**	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000882 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00636**	<0.00200	**0.00534**	<0.000228	<0.000623	**0.0323**	**0.00981**
	8/25/2021	**0.00419**	**0.0283**	**0.0159**	**0.00846**	**0.0573**	**0.0658**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00109**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00819**	<0.00200	**0.00739**	<0.000228	<0.000623	**0.0507**	**0.0138**
	9/2/2021	**0.00156**	**0.00614**	**0.00606**	**0.00182**	**0.0157**	**0.0175**	<0.00270	**0.000735 J**	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000768 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00465**	<0.00200	**0.00707**	<0.000228	<0.000623	**0.0533**	**0.0169**
	9/8/2021	**0.00433**	**0.0302**	**0.0161**	**0.00848**	**0.0610**	**0.0695**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000975 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00786**	<0.00200	**0.00775**	<0.000228	<0.000623	**0.0570**	<0.000279
	9/14/2021	**0.00510**	**0.0368**	**0.0206**	**0.0114**	**0.0752**	**0.0866**	<0.00270	**0.00129**	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00125**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0104**	<0.00200	**0.00955**	<0.000228	<0.000623	**0.0657**	**0.0181**
	9/21/2021	**0.00431**	**0.0298**	**0.0171**	**0.00920**	**0.0633**	**0.0725**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00110**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00882**	<0.00200	**0.00838**	<0.000228	<0.000623	**0.0649**	**0.0179**
	9/29/2021	**0.00314**	**0.0236**	**0.0123**	**0.00686**	**0.0476**	**0.0545**	**0.00784 J**	<0.000286	**0.00127**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000797 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00606**	<0.00200	**0.00486**	<0.000228	<0.000623	**0.0351**	**0.0103**
	10/7/2021	**0.00353**	**0.0263**	**0.0139**	**0.00762**	**0.0517**	**0.0593**	**0.00592 J**	<0.000286	**0.00142**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000854 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00674**	<0.00200	**0.00605**	<0.000228	<0.000623	**0.0454**	**0.0128**
	10/13/2021	**0.00286**	**0.0213**	**0.0111**	**0.00978**	**0.0695**	**0.0793**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00114**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00566**	<0.00200	**0.00814**	<0.000228	<0.000623	**0.0388**	**0.0110**
	10/21/2021	**0.00280**	**0.0214**	**0.0114**	**0.00624**	**0.0419**	**0.0481**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000746 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00564**	<0.00200	**0.00476**	<0.000228	<0.000623	**0.0359**	**0.0104**
	10/27/2021	**0.00220**	**0.0138**	**0.00867**	**0.00414**	**0.0306**	**0.0347**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000615 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00462**	<0.00200	**0.00485**	<0.000228	<0.000623	**0.0430**	**0.0120**
	11/5/2021	**0.00286**	**0.0223**	**0.0115**	**0.00643**	**0.0428**	**0.0492**	**0.00462 J**	<0.000286	<0.000199	<0.000195	<0.00100	<0.000259	<0.000318	<0.000214	<0.000183	**0.000688 J**	<0.000285	<0.000396	<0.000174	<0.00100	<0.000481	**0.00552**	<0.00200	**0.00371**	<0.000228	<0.000623	**0.0288**	**0.00852**
	11/11/2021	**0.00218**	**0.0150**	**0.00928**	**0.00454**	**0.0330**	**0.0375**	<0.00270	**0.000916 J**	**0.00128**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00141**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00534**	<0.00200	**0.00436**	<0.000228	<0.000623	**0.0423**	**0.0118**
	11/18/2021	**0.00401**	**0.0334**	**0.0162**	**0.00932**	**0.0626**	**0.0719**	<0.00270	<0.000286	**0.00181**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00112**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00800**	<0.00200	**0.00543**	<0.000228	<0.000623	**0.0398**	**0.0119**
	11/24/2021	**0.00331**	**0.0267**	**0.0130**	**0.00783**	**0.0522**	**0.0600**	**0.00520 J**	<0.00100	<0.00100	<0.00100	<0.000500	<0.00100	<0.0100	<0.00100	<0.00100	**0.000773 J**	<0.00100	<0.00500	<0.00100	<0.000199	<0.00500	**0.00616**	<0.0100	**0.00348**	<0.00100	<0.00100	**0.0230**	**0.00670**
	12/1/2021	**0.00256**	**0.0200**	**0.0101**	**0.00564**	**0.0387**	**0.0443**	**0.00324 J**	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000637 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00498**	<0.00200	**0.00280**	<0.000228	<0.000623	**0.0208**	**0.00622**
	12/8/2021	**0.00402**	**0.0320**	**0.0164**	**0.00969**	**0.0631**	**0.0728**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00106**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00794**	<0.00200	**0.00465**	<0.000228	<0.000623	**0.0341**	**0.00992**
	12/16/2021	**0.00323**	**0.0261**	**0.0140**	**0.00818**	**0.0535**	**0.0617**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000915 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00678**	<0.00200	**0.00392**	<0.000228	<0.000623	**0.0309**	**0.00899**
	12/22/2021	**0.00289**	**0.0219**	**0.0105**	**0.00587**	**0.0408**	**0.0467**	**0.00428 J**	<0.000286	<0.000199	<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	**0.00508**	<0.00200	**0.00279**	<0.000228	<0.000623	**0.0183**	**0.00553**
	12/29/2021	**0.00611**	**0.0474**	**0.0230**	**0.0143**	**0.0886**	**0.103**	<0.00270	**0.00130**	**0.00199**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00128**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0110**	<0.00200	**0.00544**	<0.000228	<0.000623	**0.0291**	**0.00913**

Received by OCD: 11/8/2023 2:18:22 PM

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TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	Date	VOCs (mg/l)																										
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		**0.005**	**1**	**0.7**	**NE**	**NE**	**0.62**	**NE**	**NE**	**NE**	**NE**	**0.005**	**0.1**	**NE**	**NE**	**NE**	**NE**	**0.005**	**0.005**	**NE**	**0.075**	**NE**	**NE**	**0.03**	**NE**	**0.01**	**0.1**	**NE**	**NE**
Levey Well	1/6/2022	**0.000940 J**	**0.00568**	**0.00394**	**0.00181**	**0.0134**	**0.0152**	<0.00270	<0.000286	**0.000577 J**	<0.000195	**0.000654 J**	<0.000259	<0.000318	<0.000214	<0.000183	**0.000397 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00213**	<0.00200	**0.00127**	<0.000228	<0.000623	**0.0168**	**0.00498**
	1/12/2022	**0.00260**	**0.0190**	**0.01020**	**0.00573**	**0.0381**	**0.0438**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000621 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00707**	<0.00200	**0.00273**	<0.000228	<0.000623	**0.0197**	<0.000279
	1/19/2022	**0.00684**	**0.0520**	**0.0252**	**0.0158**	**0.0980**	**0.114**	**0.00679 J**	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00123**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0118**	<0.00200	**0.00592**	<0.000228	<0.000623	**0.0296**	**0.00947**
	1/26/2022	**0.00264**	**0.0206**	**0.0103**	**0.00604**	**0.0392**	**0.0452**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000568 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00507**	<0.00200	**0.00258**	<0.000228	<0.000623	**0.0139**	**0.00433**
	2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.																										
	2/8/2022	**0.00288**	**0.0228**	**0.0122**	**0.00697**	**0.0458**	**0.0528**	**0.0112 J**	<0.000286	**0.00125**	<0.000195	**0.00194**	<0.000259	<0.000318	<0.000214	<0.000183	**0.000813 J**	<0.000285	<0.000396	<0.000174	**0.000211 J**	<0.000481	**0.00591**	<0.00200	**0.00329**	<0.000228	<0.000623	**0.0228**	**0.00693**
	2/16/2022	**0.000814 J**	**0.00676**	**0.00397**	**0.00212**	**0.0142**	**0.0163**	<0.00270	<0.000286	<0.000199	<0.000195	**0.00175**	<0.000259	<0.000318	<0.000214	<0.000183	**0.000336 J**	<0.000285	**0.000534 J**	<0.000174	<0.000199	<0.000481	**0.00202**	<0.00200	**0.00130**	<0.000228	<0.000623	**0.00924**	**0.00283**
	2/25/2022	**0.00370**	**0.0196**	**0.0133**	**0.00750**	**0.0489**	**0.0564**	**0.00976 J**	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000696 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00626**	<0.00200	**0.00308**	<0.000228	<0.000623	**0.0131**	**0.00450**
	3/3/2022	**0.00462**	**0.0327**	**0.0162**	**0.00973**	**0.0634**	**0.0731**	**0.0180 J**	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000710 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00731**	<0.00200	**0.00342**	<0.000228	<0.000623	**0.0140**	**0.00470**
	3/9/2022	**0.00552**	**0.0388**	**0.0204**	**0.0124**	**0.0768**	**0.0892**	<0.00270	**0.00169**	**0.00180**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00109**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00966**	<0.00200	**0.00484**	<0.000228	<0.000623	**0.0226**	**0.00720**
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																										
	3/16/2022	**0.00283**	**0.0227**	**0.0106**	**0.00619**	**0.0409**	**0.0471**	<0.00270	<0.000286	**0.000916 J**	<0.000195	**0.00174**	<0.000259	<0.000318	<0.000214	<0.000183	**0.000550 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00477**	<0.00200	**0.00238**	<0.000228	<0.000623	**0.0114**	**0.00388**
	3/24/2022	**0.00236**	**0.0178**	**0.00867**	**0.00491**	**0.0341**	**0.0390**	<0.00270	**0.000553 J**	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000509 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00409**	<0.00200	**0.00208**	<0.000228	<0.000623	**0.0101**	**0.00323**
	3/31/2022	**0.00254**	**0.0197**	**0.00985**	**0.00574**	**0.0371**	**0.0428**	**0.00431 J**	<0.000286	**0.000932 J**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000605 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00482**	<0.00200	**0.00233**	<0.000228	<0.000623	**0.0121**	**0.00390**
	4/6/2022	**0.00282**	**0.0215**	**0.0106**	**0.00647**	**0.0405**	**0.0470**	**0.00381 J**	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000581 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00491**	<0.00200	**0.00250**	<0.000228	<00000623	**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	<00000623	**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**

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Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	Date	VOCs (mg/l)																										
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-1	5/26/2020	**0.000500 J**	<0.000500	<0.000146	<0.000192	**0.00215 J**	**0.00215**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	**0.00101**	**0.0005 J**
	6/30/2020	**0.00275**	<0.00100	<0.00100	<0.00100	**0.0136**	**0.0136**	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	**0.00665**	**0.00271**
	8/20/2020	**0.00222**	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	**0.00388**	**0.00175**
	10/23/2020	**0.00353**	<0.000367	<0.000657	<0.000642	**0.00246 J**	**0.00246**	NA																					
	11/24/2020	**0.00241**	<0.000500	**0.000310 J**	<0.000192	**0.00133 J**	**0.001330**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	**0.00151**	**0.000820 J**
	12/18/2020	**0.00257**	<0.000500	**0.000580 J**	<0.000192	**0.00145 J**	**0.00145**	<0.00270	<0.000286	**0.000350 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.000270 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000320 J**	<0.00200	**0.000230 J**	<0.000228	<0.000162	**0.00234**	**0.00111**
	12/23/2020	**0.00159**	<0.000500	**0.000380 J**	<0.000192	**0.000970 J**	**0.000970 J**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	**0.000230 J**	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	**0.000720 J**	**0.000360 J**
	12/30/2020	**0.00194**	<0.000500	**0.000470 J**	<0.000192	**0.00148 J**	**0.00148**	<0.00270	<0.000286	**0.000230 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000240 J**	<0.00200	<0.000179	<0.000228	<0.000162	**0.00154**	**0.000750 J**
	1/6/2021	**0.00209**	<0.000500	**0.000330 J**	<0.000192	**0.00122 J**	**0.00122**	<0.00270	<0.000286	**0.000310 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.000260 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000190 J**	<0.00200	<0.000179	<0.000228	<0.000162	**0.00219**	**0.00103**
	1/12/2021	**0.00211**	**0.000690 J**	**0.000540 J**	<0.000192	**0.00163 J**	**0.00163**	<0.00270	<0.000286	**0.000220 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000200 J**	<0.00200	<0.000179	<0.000228	<0.000162	**0.00143**	**0.000670 J**
	1/20/2021	**0.00222**	<0.000500	**0.000430 J**	<0.000192	**0.00137 J**	**0.00137**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000210 J**	<0.00200	<0.000179	<0.000228	<0.000162	**0.00140**	**0.000720 J**
	1/27/2021	**0.00157**	<0.000500	**0.000400 J**	<0.000192	**0.00123 J**	**0.00123**	**0.00398 J**	<0.000286	**0.000270 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000210 J**	<0.00200	<0.000179	<0.000228	<0.000162	**0.00153**	**0.000830 J**
	2/3/2021	**0.00203**	<0.000500	**0.000430 J**	<0.000192	**0.00100 J**	**0.00100 J**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000180 J**	<0.00200	<0.000179	<0.000228	<0.000162	**0.00105**	**0.000510 J**
	2/10/2021	**0.00196**	<0.000500	**0.000560 J**	<0.000192	**0.00143 J**	**0.00143**	<0.00575	<0.000286	**0.000240 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000300 J**	<0.00200	<0.000179	<0.000228	<0.000162	**0.00143**	**0.000740 J**
	2/24/2021	**0.00158**	<0.000500	**0.000460 J**	<0.000192	**0.00110 J**	**0.0011**	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000210 J**	<0.00200	<0.000179	<0.000228	<0.000162	**0.000930 J**	**0.000490 J**
	3/4/2021	**0.00139**	<0.000500	**0.00102**	<0.000192	**0.00211 J**	**0.00211**	<0.00575	<0.000286	**0.000240 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000440 J**	<0.00200	**0.000240 J**	<0.000228	<0.000162	**0.00131**	**0.000680 J**
	3/10/2021	**0.00143**	<0.000500	**0.000490 J**	<0.000192	**0.000900 J**	**0.000900 J**	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000200 J**	<0.00200	<0.000179	<0.000228	<0.000162	**0.000780 J**	**0.000370 J**
	3/17/2021	**0.00159**	**0.00112**	**0.000790 J**	<0.000192	**0.00183 J**	**0.00183**	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000380 J**	<0.00200	**0.000230 J**	<0.000228	<0.000162	**0.00145**	**0.000570 J**
	3/25/2021	**0.00159**	<0.00100	**0.000533 J**	<0.00100	**0.00123 J**	**0.00123 J**	<0.0500	<0.00100	**0.000214 J**	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.000253 J**	<0.0100	<0.00100	<0.00100	<0.00100	**0.00152**	<0.00100
	3/31/2021	**0.00161**	<0.000500	**0.000333 J**	<0.000192	**0.000714 J**	**0.000714 J**	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	<0.00100	<0.000183	<0.000233	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	**0.000980 J**	**0.000392 J**
	4/8/2021	**0.00128**	<0.000500	**0.000463 J**	<0.000192	**0.000985 J**	**0.000985 J**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000214 J**	<0.00200	**0.000271 J**	<0.000228	<0.000162	**0.00171**	<0.000279
	4/15/2021	**0.00124**	<0.000500	**0.000366 J**	<0.000192	**0.00140 J**	**0.00140 J**	<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	<0.000162	**0.00185**	<0.000279
	4/21/2021	**0.00114**	<0.000500	**0.00114**	<0.000192	**0.00148 J**	**0.00148 J**	<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	**0.000421 J**	<0.00200	**0.000338 J**	<0.000228	<0.000623	**0.00187**	**0.000711 J**
	4/28/2021	**0.00126**	<0.000500	**0.00116**	<0.000192	**0.00220 J**	**0.00220 J**	<0.00270	<0.000286	**0.000203 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	**0.000593 J**	<0.00200	**0.000274 J**	<0.000228	<0.000623	**0.00150**	**0.000483 J**
	5/5/2021	**0.00149**	<0.000500	**0.000834 J**	<0.000192	**0.00124 J**	**0.00124 J**	<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	**0.00134**	**0.000333 J**
	5/13/2021	**0.00122**	<0.000500	<0.000515	<0.000192	**0.000619 J**	**0.000619 J**	<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	**0.00159**	<0.000279
	5/19/2021	**0.00138**	**0.000545 J**	**0.00126**	<0.000192	**0.00269 J**	**0.00269 J**	<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	**0.000613 J**	<0.00200	**0.000281 J**	<0.000228	<0.000623	**0.00191**	**0.000594 J**
	5/27/2021	**0.00138**	<0.000500	**0.00102**	<0.000192	**0.00209 J**	**0.00209 J**	<0.00270	<0.000286	**0.000251 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	**0.000519 J**	<0.00200	<0.000179	<0.000228	<0.000623	**0.00197**	**0.000564 J**
	6/2/2021	**0.00134**	<0.000500	**0.000953 J**	<0.000192	**0.00209 J**	**0.00209 J**	<0.00270	<0.000286	**0.000290 J**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000254 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.000496 J**	<0.00200	<0.000179	<0.000228	<0.000623	**0.00195**	**0.000591 J**
	6/10/2021	**0.000930 J**	<0.000500	<0.000515	<0.000192	**0.000631 J**	**0.000631 J**	<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	<0.00161	<0.00200	<0.000179	<0.000228	<0.000623	**0.00150**	**0.000287 J**
	6/16/2021	**0.000920 J**	<0.000500	<0.000515	<0.000192	**0.000904 J**	**0.000904 J**	<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	**0.000228 J**	<0.00200	<0.000179	<0.000228	<0.000623	**0.00182**	<0.000279
	6/22/2021	**0.00115**	<0.000500	<0.000515	<0.000192	**0.000526 J**	**0.000526 J**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000433	<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	**0.00319**	**0.000332 J**
	6/30/2021	**0.000893 J**	<0.000500	<0.000515	<0.000192	**0.000657 J**	**0.000657 J**	<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	**0.00155**	<0.000279
	7/1/2021	Levey Well Now Running Full Time																											
	7/7/2021	**0.000720 J**	<0.000500	<0.000515	<0.000192	**0.000391 J**	**0.000391 J**	<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	**0.00996**	**0.00199**
	7/14/2021	**0.000894 J**	<0.000500	<0.000515	<0.000192	**0.000391 J**	**0.000391 J**	<0.00270	<0.000286	<0.000199	<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	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	**0.00360**	**0.000732 J**
	7/20/2021	**0.000981 J**	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	**0.00148**	**0.000378 J**
	7/27/2021	**0.00114**	<0.000500	<0.000515	<0.000192	**0.000467 J**	**0.000467 J**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000813	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	**0.00154**	**0.000305 J**
	8/5/2021	**0.000808 J**	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	**0.000615 J**	<0.000279
	8/11/2021	**0.000871 J**	<0.000500	<0.000515	<0.000192	**0.000345 J**	**0.000345 J**	<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	**0.000799 J**	<0.000279
	8/19/2021	**0.000489 J**	<0.000500	<0.000515	<0.000192	**0.000510 J**	**0.000510 J**	<0.00270	**0.000377 J**	**0.000244 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	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	**0.000354 J**	<0.000279
	8/25/2021	**0.000478 J**	<0.000500	<0.000515	<0.000192	**0.000462 J**	**0.000462 J**	<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	**0.000219 J**	<0.00200	<0.000179	<0.000283	<0.000623	**0.000267 J**	<0.000279
	9/2/2021	**0.000871 J**	<0.000500	<0.000515	<0.000192	**0.000505 J**	**0.000505 J**	<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	**0.000199 J**	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	9/8/2021	**0.000345 J**	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	**0.000651 J**	<0.000279
	9/14/2021	**0.000388 J**	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	**0.000862 J**	<0.000279
	9/21/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	9/29/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	10/7/2021	**0.000252 J**	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	**0.000438 J**	<0.000279
	10/13/2021	**0.000214 J**	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	10/21/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	11/5/2021	**0.000247 J**	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	11/11/2021	**0.000458 J**	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	11/18/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	11/24/2021	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/1/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000141	<0.000279
	12/8/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	12/16/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	12/22/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	12/29/2021	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279

Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	Date	VOCs (mg/l)																										
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(yl)ene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(yl)ene	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	1/6/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	1/12/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000396	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	1/19/2022	<0.000214	<0.000500	<0.000515	<0.000192	**0.000640 J**	**0.000640 J**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000396	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	**0.000414 J**	<0.000279
	1/26/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000259	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	0.000623	<0.000252	<0.000279
	2/2/2022	Unable to Sample due to Incliment 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

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TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	Date	VOCs (mg/l)																									
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		**0.005**	**1**	**0.7**	**NE**	**NE**	**0.62**	**NE**	**NE**	**NE**	**NE**	**0.005**	**0.1**	**NE**	**NE**	**NE**	**NE**	**0.005**	**0.005**	**NE**	**0.075**	**NE**	**NE**	**0.03**	**NE**	**0.01**	**0.1**	**NE**	**NE**
MW-2	5/26/2020	**0.00901**	**0.0299**	**0.0069**	**0.0186**	**0.0545**	**0.0731**	<0.00270	<0.000286	**0.000270 J**	<0.000195	<0.00500	<0.000259	NA	<0.000214	<0.000183	**0.000660**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00223**	<0.00200	**0.000570 J**	<0.000228	<0.000162	**0.0125**	**0.00704**
	6/30/2020	**0.0124**	**0.0193**	**0.0187**	**0.0196**	**0.0903**	**0.110**	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.00667**	<0.0100	**0.00243**	<0.00100	<0.00100	**0.0231**	**0.00815**
	8/20/2020	**0.0148**	**0.0172**	**0.0182**	**0.0160**	**0.0802**	**0.0962**	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.00640**	<0.0100	**0.00170**	<0.00100	<0.00100	**0.0145**	**0.00421**
	10/23/2020	**0.0250**	**0.00730**	**0.0248**	**0.0186**	**0.110**	**0.129**	NA											NA										
	11/24/2020	**0.0358**	**0.0613**	**0.0503**	**0.0465**	**0.221**	**0.2675**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.00143**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0189**	**0.00242 J**	<0.000179	<0.000228	<0.000162	**0.0590**	**0.0149**
	12/18/2020	**0.0263**	**0.0260**	**0.0369**	**0.0240**	**0.165**	**0.189**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.00113**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0148**	<0.00200	**0.00486**	<0.000228	<0.000162	**0.0467**	**0.0121**
	12/23/2020	**0.0299**	**0.0358**	**0.0381**	**0.0266**	**0.156**	**0.183**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.00101**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0135**	<0.00200	**0.00408**	<0.000228	<0.000162	**0.0406**	**0.0102**
	12/30/2020	**0.0200**	**0.0242**	**0.0185**	**0.0146**	**0.0592**	**0.0738**	<0.00270	**0.000550 J**	**0.000680 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.000540 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00603**	<0.00200	**0.00170**	<0.000228	<0.000162	**0.0116**	**0.00533**
	1/6/2021	**0.0200**	**0.0169**	**0.0231**	**0.0169**	**0.118**	**0.135**	<0.00270	**0.000390 J**	**0.00117**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.00105**	**0.000500 J**	<0.000396	<0.000174	<0.000199	<0.000481	**0.00815**	<0.00200	**0.00267**	**0.000800 J**	<0.000162	**0.0339**	**0.0103**
	1/12/2021	**0.0193**	**0.0185**	**0.0198**	**0.0144**	**0.0922**	**0.107**	<0.00270	**0.000690 J**	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.000710 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00756**	<0.00200	**0.00242**	<0.000228	<0.000162	**0.0259**	**0.00698**
	1/20/2021	**0.0229**	**0.0169**	**0.0190**	**0.0136**	**0.0829**	**0.0965**	**0.00394 J**	**0.000400 J**	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.000470 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00640**	<0.00200	**0.00177**	<0.000228	<0.000162	**0.0202**	**0.00517**
	1/27/2021	**0.0298**	**0.0276**	**0.0282**	**0.0269**	**0.155**	**0.182**	**0.00504 J**	**0.00103**	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.00116**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0117**	<0.00200	**0.00343**	<0.000228	<0.000162	**0.0500**	**0.0129**
	2/3/2021	**0.0286**	**0.0392**	**0.0258**	**0.0236**	**0.111**	**0.135**	<0.00270	<0.000286	**0.000850 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.000590 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00817**	<0.00200	**0.00240**	<0.000228	<0.000162	**0.0267**	**0.00674**
	2/10/2021	**0.0307**	**0.0201**	**0.0329**	**0.0210**	**0.159**	**0.180**	<0.00575	**0.000870 J**	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.000940 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0120**	<0.00200	**0.00331**	<0.000228	<0.000162	**0.0407**	**0.00994**
	2/24/2021	**0.0218**	**0.0122**	**0.0164**	**0.0111**	**0.0749**	**0.086**	<0.00575	**0.000370 J**	**0.000640 J**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.000480 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0060**	<0.00200	**0.00175**	<0.000228	<0.000162	**0.0191**	**0.00496**
	3/4/2021	**0.0264**	**0.0232**	**0.0320**	**0.0212**	**0.142**	**0.163**	<0.00575	**0.000430 J**	**0.00131**	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	**0.000930 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0115**	<0.00200	**0.00390**	<0.000228	<0.000162	**0.0403**	**0.0100**
	3/10/2021	**0.0269**	**0.0234**	**0.0271**	**0.0206**	**0.117**	**0.138**	<0.00575	<0.000286	**0.000970 J**	<0.000195	<0.00100	<0.000259	NA	<0.000214	<0.000183	**0.000720 J**	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	**0.00931**	<0.00200	**0.00281**	<0.000228	<0.000162	**0.0287**	**0.00720**
	3/17/2021	**0.0238**	**0.0237**	**0.0257**	**0.0190**	**0.113**	**0.132**	<0.0500	<0.00100	**0.00113**	<0.00100	<0.00100	<0.000259	NA	<0.00100	<0.00100	<0.00100	<0.00500	<0.00500	<0.00500	<0.00100	<0.00500	**0.00923**	<0.0100	**0.00305**	<0.00100	<0.00100	**0.0315**	**0.00821**
	3/25/2021	**0.0209**	**0.0281**	**0.0202**	**0.0165**	**0.0892**	**0.106**	<0.0500	<0.00100	**0.000799 J**	**0.00134**	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	**0.000610 J**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.00725**	<0.0100	**0.00229**	<0.00100	<0.00100	**0.0224**	<0.00100
	3/31/2021	**0.0298**	**0.0107**	**0.0177**	**0.0203**	**0.124**	**0.144**	<0.00270	<0.000286	**0.00137**	<0.000195	<0.000500	<0.00100	<0.0100	**0.00151**	<0.000183	**0.00109**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0133**	<0.00200	**0.00295**	<0.000228	**0.000631 J**	**0.0426**	**0.0107**
	4/8/2021	**0.0226**	**0.0217**	**0.0210**	**0.0175**	**0.0990**	**0.117**	<0.00270	**0.000640 J**	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000579 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00799**	<0.00200	**0.00235**	<0.000228	<0.000162	**0.0237**	<0.000279
	4/15/2021	**0.0260**	**0.0132**	**0.0236**	**0.0176**	**0.129**	**0.147**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000925 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0102**	<0.00200	**0.00320**	<0.000228	<0.000162	**0.0381**	**0.00968**
	4/21/2021	**0.0220**	**0.00991**	**0.0180**	**0.0162**	**0.118**	**0.134**	<0.00270	**0.000776 J**	**0.00121**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000901 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0106**	<0.00200	**0.00267**	<0.000228	<0.000623	**0.0364**	<0.000279
	4/28/2021	**0.0320**	**0.0265**	**0.0408**	**0.0297**	**0.187**	**0.217**	<0.00270	**0.00121**	**0.00159**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00127**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0159**	<0.00200	**0.00438**	<0.000228	<0.000623	**0.0496**	**0.0126**
	5/5/2021	**0.0234**	**0.0123**	**0.0180**	**0.0147**	**0.115**	**0.130**	<0.00270	**0.000841 J**	**0.00124**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000766 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00959**	<0.00200	**0.00274**	<0.000228	<0.000623	**0.0331**	<0.000279
	5/13/2021	**0.0273**	**0.00926**	**0.0180**	**0.0165**	**0.115**	**0.132**	<0.00270	<0.000286	**0.00123**	<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	**0.0112**	<0.00200	**0.00303**	<0.000228	<0.000623	**0.0396**	**0.00983**
	5/19/2021	**0.0246**	**0.0111**	**0.0276**	**0.0160**	**0.127**	**0.143**	<0.00270	**0.000834 J**	**0.00115**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000937 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0106**	<0.00200	**0.00354**	<0.000228	<0.000623	**0.0374**	**0.00933**
	5/27/2021	**0.0346**	**0.0127**	**0.0287**	**0.0166**	**0.139**	**0.156**	<0.00270	<0.000286	**0.00145**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00116**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0111**	<0.00200	**0.00399**	<0.000228	<0.000623	**0.0453**	**0.0114**
	6/2/2021	**0.0257**	**0.00773**	**0.0277**	**0.0139**	**0.149**	**0.163**	<0.00270	**0.000614 J**	**0.00150**	<0.000195	<0.000500	**0.00495**	**0.00444 J**	<0.000214	<0.000183	**0.00122**	<0.000285	<0.000396	<0.000174	<0.000199	**0.00559**	**0.0128**	<0.00200	**0.00408**	<0.000228	<0.000623	**0.0455**	**0.0117**
	6/10/2021	**0.0288**	**0.00860**	**0.0318**	**0.0153**	**0.165**	**0.180**	<0.00270	<0.000286	**0.00160**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00129**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0137**	<0.00200	**0.00445**	<0.000228	<0.000623	**0.0522**	**0.0129**
	6/16/2021	**0.0291**	**0.00754**	**0.0243**	**0.0135**	**0.148**	**0.162**	<0.00270	<0.000286	**0.00137**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00113**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0130**	<0.00200	**0.00342**	<0.000228	<0.000623	**0.0442**	**0.0109**
	6/22/2021	**0.0371**	**0.0110**	**0.0312**	**0.0196**	**0.181**	**0.201**	<0.00270	<0.000286	**0.00136**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00108**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0147**	<0.00200	**0.00362**	<0.000228	<0.000623	**0.0510**	**0.0126**
	6/30/2021	**0.0269**	**0.0055**	**0.0216**	**0.0131**	**0.151**	**0.164**	<0.00270	<0.000286	**0.00159**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00134**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0139**	<0.00200	**0.00359**	<0.000228	<0.000623	**0.0518**	**0.0130**
	7/1/2021	Levey Well Now Running Full Time																											
	7/7/2021	**0.0415**	**0.00962**	**0.0343**	**0.0215**	**0.235**	**0.257**	<0.00270	<0.000286	**0.00225**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00186**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0192**	<0.00200	**0.00525**	<0.000228	<0.000623	**0.0790**	**0.0193**
	7/14/2021	**0.0382**	**0.0335**	**0.0352**	**0.0299**	**0.149**	**0.177**	<0.00270	<0.000286	**0.00136**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00103**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0120**	<0.00200	**0.00352**	<0.000228	<0.000623	**0.0437**	**0.0110**
	7/20/2021	**0.0269**	**0.0104**	**0.0179**	**0.0166**	**0.116**	**0.133**	<0.00270	<0.000286	**0.00101**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00130**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00625**	<0.00200	**0.00182**	<0.000228	<0.000623	**0.0324**	**0.0117**
	7/27/2021	**0.0306**	**0.00861**	**0.0230**	**0.0154**	**0.117**	**0.129**	<0.00270	<0.000286	**0.00101**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00111**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00944**	<0.00200	**0.00258**	<0.000228	<0.000623	**0.0408**	**0.0118**
	8/5/2021	**0.0262**	**0.00661**	**0.0194**	**0.0108**	**0.113**	**0.124**	<0.00270	<0.000286	**0.000857 J**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000760 J**	<0.000285	<0.000396	<0.000714	<0.000199	<0.000481	**0.00898**	<0.00200	**0.00229**	<0.000228	<0.000623	**0.0274**	**0.00745**
	8/11/2021	**0.0280**	**0.00571**	**0.0272**	**0.0116**	**0.278**	**0.297**	<0.00270	<0.000286	**0.00145**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00118**	<0.000285	<0.000396	<0.000714	<0.000199	<0.000481	**0.0126**	<0.00200	**0.00370**	<0.000228	<0.000623	**0.0465**	**0.0123**
	8/19/2021	**0.0303**	**0.00626**	**0.0341**	**0.0141**	**0.324**	**0.347**	<0.00270	<0.000266	**0.00232**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00178**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0188**	<0.00200	**0.00576**	<0.000228	<0.000623	**0.0629**	**0.0168**
	8/25/2021	**0.0256**	**0.00530**	**0.0148**	**0.00844**	**0.0847**	**0.0931**	<0.00270	<0.000286	**0.000740 J**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000660 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00608**	<0.00200	**0.00169**	<0.000228	<0.000623	**0.0225**	**0.00510**
	9/2/2021	**0.0289**	**0.00557**	**0.0287**	**0.0135**	**0.295**	**0.317**	<0.00270	**0.00107**	**0.00155**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00130**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0151**	<0.00200	**0.00391**	<0.000228	<0.000623	**0.0499**	**0.0131**
	9/8/2021	**0.0308**	**0.00410**	**0.0245**	**0.0106**	**0.204**	**0.217**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00130**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0137**	<0.00200	**0.00370**	<0.000228	<0.000623	**0.0558**	<0.000279
	9/14/2021	**0.0310**	**0.00503**	**0.0350**	**0.0138**	**0.339**	**0.362**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00138**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0169**	<0.00200	**0.00509**	<0.000228	<0.000623	**0.0580**	**0.0150**
	9/21/2021	**0.0294**	**0.00288**	**0.0136**	**0.0141**	**0.135**	**0.149**	<0.00270	<0.000286	**0.00179**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00150**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0144**	<0.00200	**0.00296**	<0.000228	<0.000623	**0.0549**	**0.0132**
	9/29/2021	**0.0179**	**0.00311**	**0.0221**	**0.00740**	**0.115**	**0.122**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000781 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0103**	<0.00200	**0.00278**	<0.000228	<0.000623	**0.0265**	**0.00707**
	10/7/2021	**0.0221**	**0.00389**	**0.0214**	**0.00873**	**0.125**	**0.134**	<0.00270	<0.000286	**0.00101**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000840 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00824**	<0.00200	**0.00245**	<0.000228	<0.000623	**0.0310**	**0.00853**
	10/13/2021	**0.0239**	**0.0106**	**0.0223**	**0.0150**	**0.123**	**0.138**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000684 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00784**	<0.00200	**0.00193**	<0.000228	<0.000623	**0.0306**	**0.00840**
	10/21/2021	**0.0189**	**0.00361**	**0.0145**	**0.00749**	**0.107**	**0.114**	<0.00270	<0.000286	**0.00115**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000918 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0101**	<0.00200	**0.00253**	<0.000228	<0.000623	**0.0316**	**0.00875**
	11/5/2021	**0.0200**	**0.00476**	**0.0173**	**0.00743**	**0.0901**	**0.0975**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000616 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00733**	<0.00200	**0.00210**	<0.000228	<0.000623	**0.0223**	**0.00602**
	11/11/2021	**0.0221**	**0.00254**	**0.0192**	**0.00754**	**0.125**	**0.133**	<0.00270	**0.000898 J**	**0.00133**	**0.00234**	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000949 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00971**	<0.00200	**0.00268**	<0.000228	<0.000623	**0.0376**	**0.00937**
	11/18/2021	**0.0331**	**0.00352**	**0.0311**	**0.0184**	**0.336**	**0.359**	<0.00270	**0.00130**	**0.00389**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00305**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0289**	<0.00200	**0.00724**	<0.000228	<0.000623	**0.116**	**0.0299**
	11/24/2021	**0.0207**	**0.00681**	**0.0266**	**0.0130**	**0.123**	**0.136**	<0.0500	<0.00100	**0.00110**	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	**0.000749 J**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	**0.0107**	<0.0100	**0.00312**	<0.00100	<0.00100	**0.0296**	**0.00811**
	12/1/2021	**0.0189**	**0.00198**	**0.0143**	**0.00529**	**0.0813**	**0.0866**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000506 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00604**	<0.00200	**0.00163**	<0.000228	<0.000623	**0.0194**	**0.00496**
	12/8/2021	**0.0377**	**0.0208**	**0.0448**	**0.0298**	**0.271**	**0.309**	<0.00270	**0.00130**	**0.00175**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00128**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0166**	<0.00200	**0.00500**	<0.000228	<0.000623	**0.0542**	**0.0143**
	12/16/2021	**0.0270**	**0.00490**	**0.0225**	**0.0129**	**0.227**	**0.249**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000875 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00712**	<0.00200	<0.000179	<0.000228	<0.000623	**0.0396**	**0.00959**
	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**

Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	Date	VOCs (mg/l)																										
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		**0.005**	**1**	**0.7**	**NE**	**NE**	**0.62**	**NE**	**NE**	**NE**	**NE**	**0.005**	**0.1**	**NE**	**NE**	**NE**	**NE**	**0.005**	**0.005**	**NE**	**0.075**	**NE**	**NE**	**0.03**	**NE**	**0.01**	**0.1**	**NE**	**NE**
MW-2	1/6/2022	**0.0360**	**0.00656**	**0.0309**	**0.0229**	**0.253**	**0.274**	<0.00270	**0.00192**	**0.00273**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00265**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0208**	<0.00200	**0.00488**	<0.000228	<0.000623	**0.108**	**0.0273**
	1/12/2022	**0.0205**	**0.00174**	**0.00106**	**0.0200**	**0.0949**	**0.115**	<0.00270	<0.000286	**0.00132**	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	**0.00184**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00521**	<0.00200	**0.000546 J**	<0.000228	<0.000623	**0.0619**	**0.00491**
	1/19/2022	**0.0262**	**0.00733**	**0.0305**	**0.0147**	**0.229**	**0.249**	<0.00270	**0.00104**	**0.00147**	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	**0.00116**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0142**	<0.00200	**0.00403**	<0.000228	<0.000623	**0.0435**	**0.0115**
	1/26/2022	**0.0331**	**0.00488**	**0.0137**	**0.00718**	**0.0755**	**0.0827**	<0.00270	<0.00286	<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 Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.																										
	2/8/2022	**0.0184**	**0.00572**	**0.0133**	**0.00676**	**0.0653**	**0.0721**	<0.00270	<0.00286	**0.000510 J**	<0.000195	<0.000500	<0.000259	**0.00165 J**	<0.000214	<0.000183	**0.000391 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00544**	<0.00200	**0.00149**	<0.000228	<0.000623	**0.0150**	**0.00409**
	2/16/2022	**0.0357**	**0.0270**	**0.0391**	**0.0307**	**0.205**	**0.244**	<0.00270	<0.00286	**0.00119**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000884 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0127**	<0.00200	**0.00392**	<0.000228	<0.000623	**0.0393**	**0.0103**
	2/25/2022	**0.0341**	**0.00559**	**0.0206**	**0.0111**	**0.134**	**0.145**	<0.00270	<0.0000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000996 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0114**	<0.00200	**0.00295**	<0.000228	<0.000623	**0.0386**	**0.00997**
	3/3/2022	**0.0370**	**0.00673**	**0.0378**	**0.0160**	**0.225**	**0.244**	<0.00270	<0.0000286	**0.00153**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00117**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0152**	<0.00200	**0.00456**	<0.000228	<0.000623	**0.0496**	**0.0126**
	3/9/2022	**0.0182**	**0.00790**	**0.0186**	**0.0131**	**0.0857**	**0.0988**	<0.00270	<0.0000286	**0.000910 J**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000683 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00640**	<0.00200	**0.00211**	<0.000228	<0.000623	**0.0240**	**0.00659**
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																										
	3/16/2022	**0.0200**	**0.00793**	**0.0209**	**0.0133**	**0.0947**	**0.108**	<0.00270	<0.0000286	**0.000759 J**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000524 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00753**	<0.00200	**0.00212**	<0.000228	<0.000623	**0.0216**	**0.00583**
	3/24/2022	**0.0400**	**0.0151**	**0.0490**	**0.0321**	**0.252**	**0.284**	<0.00270	**0.00104**	**0.00192**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00135**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0208**	<0.00200	**0.00487**	<0.000228	<0.000623	**0.0679**	**0.0170**
	3/31/2022	**0.0305**	**0.0309**	**0.0274**	**0.0311**	**0.267**	**0.311**	<0.00270	**0.00102**	**0.00142**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00138**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00896**	<0.00200	**0.00203**	<0.000228	<0.000623	**0.0551**	**0.0138**
	4/6/2022	**0.0303**	**0.0170**	**0.0140**	**0.0228**	**0.191**	**0.218**	<0.00270	**0.000939 J**	**0.00104**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00128**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00534**	<0.00200	**0.00110**	<0.000228	<0.000623	**0.0517**	**0.0136**
	4/13/2022	**0.0303**	**0.0271**	**0.0235**	**0.0218**	**0.135**	**0.157**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000812 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00770**	<0.00200	**0.00212**	<0.000228	<0.000623	**0.0368**	**0.00937**
	4/20/2022	**0.0246**	**0.0126**	**0.0157**	**0.0171**	**0.0994**	**0.117**	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.000513 J**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.00439**	<0.00200	**0.000555 J**	<0.000228	<0.000623	**0.0224**	**0.00580**
	4/28/2022	**0.0384**	**0.0164**	**0.0617**	**0.0403**	**0.292**	**0.333**	<0.00270	**0.00162**	**0.00214**	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	**0.00176**	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	**0.0222**	<0.00200	**0.00675**	<0.000228	<0.000623	**0.0872**	**0.0220**

NOTES:
VOCs - volatile organic compounds
mg/l - milligrams per liter
NA - not analyzed
NE - not established
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

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TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

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

ENSOLUM

TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	(mg/l)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
Levey Well	1/6/2021	0.784	504	<0.500	0.155	2.61	23.0	400	79.8	6.14	135	2,210	1,340	<4.00	8.10	6.27
	1/12/2021	0.605	326	<0.500	0.137	1.05	<0.500	324	64.3	5.68	97.8	1,680	1,160	<4.00	7.00	6.57
	1/20/2021	0.796	486	<0.500	0.138	<0.100	7.68	397	73.0	6.00	127	2,170	1,200	<4.00	5.70	6.24
	1/27/2021	0.510	264	0.905	0.137	1.16	23.1	296	55.1	4.75	83.1	1,350	875	<4.00	1.70	6.38
	2/3/2021	0.501	275	0.842	0.122	1.02	20.5	329	59.0	4.76	89.4	1,370	940	<4.00	0.00	6.37
	2/10/2021	0.615	561	<0.500	0.147	0.308	24.9	416	77.9	7.03	156	1,980	1,170	<4.00	4.50	6.31
	2/24/2021	0.695	576	<0.500	0.163	2.6	31.4	450	81.3	7.94	164	2,260	1,190	<4.00	2.50	6.22
	3/4/2021	0.789	585	<0.500	0.121	0.215	54.1	425	77.8	6.41	151	2,090	1,050	<4.00	3.00	6.34
	3/10/2021	0.756	540	<0.500	0.147	<0.100	45.5	417	76.3	5.54	139	1,940	1,160	<4.00	5.10	6.29
	3/17/2021	0.813	519	1.21	0.169	<0.100	33.8	436	71.3	6.10	127	1,910	1,200	<4.00	4.70	5.97
	3/25/2021	<10.0	529	<10.0	<2.00	1.99 J	20.2	435	78.0	7.14	136	2,320	1,250	<4.00	-10.80	6.6
	3/31/2021	0.785	499	0.358 J	0.130	<0.0293	16.5	416	74.3	6.73	132	1,650	1,150	<4.00	-9.18	6.4
	4/8/2021	<0.500	254	0.869	<0.100	0.121	23.3	271	46.7	5.00	74.5	1,120	785	<4.00	-9.60	6.5
	4/15/2021	0.545	253	0.939	<0.100	<0.100	34.1	283	53.5	4.66	82.8	998	793	<4.00	-7.22	6.5
	4/21/2021	0.460 J	253	0.729	0.125	<0.0293	9.23	278	52.4	4.83	81.4	1,210	869	<4.00	-10.1	6.4
	4/28/2021	0.841	497	0.196 J	0.133	<0.0293	21.2	416	75.8	6.88	133	2,000	1,290	<4.00	-12.5	6.3
	5/5/2021	0.780	475	0.362 J	0.151	<0.0293	13.6	428	80.1	7.43	123	2,120	1,230	<4.00	-9.6	6.2
	5/13/2021	0.469 J	239	1.01	0.126	0.756 J	28.5	238	46.1	4.10	72.6	1,150	737	<4.00	-11.9	6.7
	5/19/2021	0.725	566	0.324 J	<0.0391	2.93	21.0	494	91.6	8.14	164	2,160	1,260	<4.00	-5.71	6.3
	5/27/2021	0.579	419	0.499 J	0.137	0.136	16.7	406	73.3	6.47	123	1,370	810	<4.00	1.85	6.5
	6/2/2021	0.712	488	0.303 J	0.128	<0.0293	23.7	447	82.8	7.43	139	2,140	1,120	<4.00	-4.83	6.3
	6/10/2021	0.415 J	247	1.10	0.124	1.38	22.2	273	54.9	4.90	84.8	1,270	669	<4.00	-2.53	6.5
	6/16/2021	0.405 J	227	0.946	0.125	<0.0293	11.5	267	56.0	4.64	84.4	1,500	723	<4.00	-3.70	6.7
	6/22/2021	0.405 J	230	1.00	0.117	1.67	28.9	298	53.1	4.74	80.7	1,230	657	<4.00	0.795	6.7
	6/30/2021	0.398 J	237	1.07	0.140	0.205	23.8	258	51.9	4.32	74.6	1,200	676	<4.00	-5.560	6.9
	7/1/2021	Levey Well Now Running Full Time														
	7/7/2021	0.469 J	305	0.705	0.128	<0.0293	41.3	337	67.2	5.46	96.3	1,780	764	<4.00	-0.751	6.6
	7/14/2021	0.446 J	297	0.753	0.151	0.167	41.6	323	61.9	4.56	87.0	1,200	785	<4.00	-3.73	6.4
	7/20/2021	0.180 J	290	0.223 J	0.0457 J	<0.0293	38.2	317	65.9	5.31	96.1	1,620	854	<4.00	-5.11	6.4
	7/27/2021	0.437 J	281	0.491 J	0.126	1.42	41.3	338	66.9	5.14	95.9	1,240	790	<4.00	-0.522	6.2
	8/5/2021	0.400 J	275	0.565	0.158	<0.0293	43.3	334	68.8	5.00	90.9	1,610	714	<4.00	2.12	6.6
	8/11/2021	0.446 J	261	0.512	0.154	1.81	43.2	298	64.8	4.96	89.8	1,470	764	<4.00	-3.46	6.4
	8/19/2021	0.583	380	0.357 J	0.177	0.694	39.1	336	68.2	6.69	111	2,030	769	<4.00	-3.85	6.6
	8/25/2021	0.483 J	249	0.680	0.125	1.13	41.4	305	59.6	4.65	83.9	1,050	698	<4.00	-0.532	6.6
	9/2/2021	0.418 J	233	0.688	0.110	0.147	20.1	287	52.2	3.98	75.2	1,140	588	<4.00	2.27	7.0
	9/8/2021	0.357 J	257	0.442 J	0.0997 J	1.20	43.4	300	61.8	4.83	87.3	1,360	703	<4.00	-1.15	6.6
	9/14/2021	0.372 J	250	0.511	0.118	1.11	42.3	285	58.7	4.81	81.7	988	730	<4.00	-4.44	6.4
	9/21/2021	0.546	227	0.951	0.224	<0.0293	37.4	313	68.2	5.30	97.5	1,080	610	<4.00	7.72	6.6
	9/29/2021	0.535	248	0.542	0.186	0.164	41.9	302	59.9	4.60	85.4	1,410	765	<4.00	-2.94	6.6
	10/7/2021	0.454 J	235	0.582	1.10	<0.0293	40.5	323	65.5	4.79	88.3	1,310	765	<4.00	0.449	6.6
	10/13/2021	0.459 J	238	0.608	0.198	1.10	40.9	252	52.7	3.97	75.6	1,030	765	<4.00	-10.6	6.7
	10/21/2021	0.470 J	227	0.557	0.143	<0.0293	36.9	238	51.0	3.54	72.5	1,250	722	<4.00	-10.2	6.5
	10/27/2021	0.444 J	238	0.469 J	0.193	0.0910 J	42.5	330	67.2	5.31	94.2	1,290	706	<4.00	3.95	6.7
	11/5/2021	0.367 J	231	1.45	0.220	<0.0293	41.7	328	63.6	5.06	90.7	1,050	657	<4.00	5.76	6.9
	11/11/2021	0.379 J	229	0.594	0.238	<0.0293	36.9	221	48.1	3.36	71.5	1,140	571	<4.00	-5.92	7.0
	11/18/2021	0.560	247	0.397 J	0.176	<0.0293	44.3	276	50.8	4.29	76.4	1,350	698	<4.00	-5.71	6.6
	11/24/2021	0.455 J	232	0.646	0.203	0.718	41.9	253	52.5	4.07	76.6	1,240	546	<4.00	-0.200	6.6
	12/1/2021	0.497 J	233	0.652	0.144	<0.0293	42.0	284	55.9	4.31	82.4	1,040	644	<4.00	-0.133	6.9
	12/8/2021	0.516	230	0.620	0.187	<0.0293	42.5	261	55.8	4.20	82.9	1,200	633	<4.00	-1.56	6.5
	12/16/2021	0.490 J	228	0.528	0.251	<0.0293	42.1	282	55.3	4.13	81.9	1,280	649	<4.00	-0.883	6.4
	12/22/2021	0.480 J	230	0.294 J	0.223	<0.0293	43.3	304	58.5	4.66	85.8	1,270	619	<4.00	3.67	6.4
	12/29/2021	0.476 J	225	0.588	0.224	<0.0293	43.8	300	57.5	4.69	84.9	1,220	657	<4.00	1.62	6.6
	1/6/2022	0.386 J	226	0.500	0.182	<0.0293	42.7	278	52.9	4.11	79.0	1,650	711	<4.00	-4.09	6.4
	1/12/2022	0.438 J	223	0.561	0.178	<0.0293	42.8	254	49.2	3.60	71.9	1,090	633	<4.00	-4.90	6.1
	1/19/2022	0.446 J	223	0.523	0.178	<0.0293	43.6	288	57.2	4.34	80.1	1,780	688	<4.00	-1.41	6.3
	1/26/2022	0.440 J	220	0.580	0.181	0.0834 J	41.7	286	56.4	4.50	85.1	1,140	706	<4.00	-1.64	6.4
	2/2/2022	Unable to Sample due to 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

ENSOLUM

TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

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

ENSOLUM

TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

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

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

ENSOLUM

TABLE 3 - GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY

Permian EOR - South Hobbs G/SA Unit

Hobbs, New Mexico

Well ID	Date	(mg/l)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH MRO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
MW-1	5/26/2020	<0.495	**163**	<0.943	**1.48**	<0.910	**1.48**	**22.9**
	6/30/2020	<5.00	**648**	<2.34	<2.34	<2.34	<2.34	**21.9**
	8/20/2020	<5.00	**596**	**2.35**	**3.18**	<2.26	**5.53**	**23.7**
	11/24/2020	<0.495	**756**	<0.907	<0.838	<0.838	<0.8380	**19.1**
	12/18/2020	<0.495	**432**	<0.909	<0.840	<0.840	<0.840	**15.8**
	12/23/2020	<0.495	**553**	<0.895	**1.81 J**	<0.827	**1.81 J**	**15.5**
	12/30/2020	<0.495	**1,170**	<0.917	<0.847	<0.847	<0.847	**13.1**
	1/6/2021	<0.495	**585**	<0.897	<0.829	<0.829	<0.829	**12.7**
	1/12/2021	<0.495	**731**	<0.891	<0.823	<0.823	<0.823	**14.6**
	1/20/2021	**0.600 J**	**667**	<0.889	<0.821	<0.821	<0.821	**17.6**
	1/27/2021	**0.800 J**	**668**	<0.909	<0.840	<0.840	<0.840	**18.0**
	2/3/2021	<0.495	**699**	<0.907	<0.838	<0.838	<0.838	**20.6**
	2/10/2021	**1.20 J**	**423**	**1.66 J**	<0.828	<0.828	**1.66 J**	**14.1**
	2/24/2021	**0.600 J**	**448**	<0.884	<0.817	<0.817	<0.817	**18.0**
	3/4/2021	<0.495	**515**	**3.04**	**1.03 J**	<0.846	**4.07**	**18.8**
	3/10/2021	**1.20 J**	**499**	<0.878	<0.811	<0.811	<0.811	**18.6**
	3/17/2021	<0.495	**378**	<0.886	<0.819	<0.819	<0.819	**19.1**
	3/25/2021	<0.495	**333**	**17.2**	**1.00 J**	<0.867	**18.2**	**20.2**
	3/31/2021	<0.495	**526**	<0.893	<0.825	<0.825	<0.825	**18.4**
	4/8/2021	<0.495	**364**	**2.57 J**	**1.55 J**	<0.867	**4.12 J**	**18.9**
	4/15/2021	<0.495	**418**	<0.887	<0.887	**1.72 J**	**1.72 J**	**20.5**
	4/21/2021	<0.495	**415**	<0.898	**2.05 J**	<0.867	**2.05 J**	**18.8**
	4/28/2021	<0.495	**689**	<0.890	**1.19 J**	<0.859	**1.19 J**	**18.9**
	5/5/2021	<0.495	**647**	<0.890	<0.890	<0.859	<0.890	**18.8**
	5/13/2021	<0.495	**259**	<0.893	<0.893	<0.862	<0.893	**19.0**
	5/19/2021	<0.495	**679**	<0.893	<0.893	<0.862	<0.893	**21.5**
	5/27/2021	<0.495	**973**	<0.923	<0.923	<0.891	<0.923	**20.6**
	6/2/2021	<0.495	**619**	<0.918	<0.918	<0.886	<0.918	**18.1**
	6/10/2021	<0.495	**385**	<0.915	<0.915	<0.883	<0.915	**22.0**
	6/16/2021	<0.495	**323**	<0.926	<0.926	<0.894	<0.926	**18.2**
	6/22/2021	<0.495	**250**	<0.938	<0.938	<0.905	<0.938	**22.1**
	6/30/2021	<0.495	**324**	<0.923	<0.923	<0.891	<0.923	**21.0**
	7/1/2021	Levey Well Now Running Full Time						
	7/7/2021	<0.495	**241**	<0.901	<0.901	<0.869	<0.901	**18.4**
	7/14/2021	<0.495	**295**	<0.991	<0.957	<0.991	<0.991	**19.0**
	7/20/2021	<0.495	**321**	<0.938	<0.938	<0.905	<0.938	**19.8**
	7/27/2021	<0.495	**321**	<0.906	<0.906	<0.875	<0.906	**22.0**
	8/5/2021	<0.495	**196**	<0.950	<0.950	<0.917	<0.950	**21.9**
	8/11/2021	<0.495	**369**	<0.932	<0.932	<0.900	<0.932	**19.9**
	8/19/2021	<0.495	**457**	<0.950	<0.950	<0.917	<0.950	**20.8**
	8/25/2021	<0.495	**477**	<0.918	<0.918	<0.886	<0.918	**20.0**
	9/2/2021	<0.495	**416**	<0.935	<0.935	<0.902	<0.935	**20.6**
	9/8/2021	<0.495	**280**	<0.953	<0.953	<0.920	<0.953	**21.4**
	9/14/2021	<0.495	**289**	<0.932	**0.978 J**	<0.900	**0.978 J**	**19.3**
	9/21/2021	**1.00 J**	**105**	<0.918	<0.918	<0.886	<0.918	**18.0**
	9/29/2021	<0.495	**127**	<0.998	<0.998	<0.963	<0.998	**18.7**
	10/7/2021	<0.495	**143**	<0.923	<0.923	<0.891	<0.923	**18.0**
	10/13/2021	<0.495	**8.85**	<0.950	<0.950	<0.917	<0.950	**20.7**
	10/21/2021	<0.495	**434**	<0.918	<0.918	<0.886	<0.918	**19.9**
	11/5/2021	<0.495	**114**	<1.03	<1.03	<0.993	<1.03	**22.9**
	11/11/2021	<0.495	**563**	<0.923	<0.923	<0.891	<0.923	**19.3**
	11/18/2021	<0.495	**24.9**	**1.05 J**	<0.969	<0.935	**1.05 J**	**19.0**
	11/24/2021	<5.00	**159**	<4.70	<4.70	<4.70	<4.70	**19.7**
	12/1/2021	<0.495	**39.0**	<0.935	<0.935	<0.902	<0.935	**19.4**
	12/8/2021	<0.495	**122**	<0.929	<0.929	<0.897	<0.929	**18.1**
	12/16/2021	<0.495	**69.3**	<0.962	<0.962	<0.929	<0.962	**18.0**
	12/22/2021	<0.495	**49.5**	**1.34 J**	<0.941	<0.908	**1.34 J**	**21.5**
	12/29/2021	<0.495	**50.2**	<0.935	<0.935	<0.902	<0.935	**18.1**
	1/6/2022	<0.495	**67.0**	<0.932	<0.932	<0.900	<0.932	**18.0**
	1/12/2022	<0.495	**130**	**0.960 J**	**1.06 J**	<0.900	**2.02 J**	**21.7**
	1/19/2022	<0.495	**56.4**	<0.912	<0.912	<0.880	<0.912	**18.0**
	1/26/2022	<0.495	**44.7**	<0.898	<0.898	<0.867	<0.898	**18.8**
	2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.						
	2/8/2022	<0.495	**95.7**	<0.895	<0.895	<0.864	<0.895	**20.8**
	2/16/2022	<0.495	**61.0**	<0.877	<0.877	<0.846	<0.877	**18.7**
	2/25/2022	<0.495	**54.2**	<0.923	<0.923	<0.891	<0.923	**20.0**
	3/3/2022	<0.495	**90.5**	<0.935	<0.935	<0.902	<0.935	**18.2**
	3/9/2022	<0.495	**40.7**	<0.874	<0.874	<0.874	<0.874	**18.1**
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.						
	3/16/2022	<0.495	**67.6**	<0.959	<0.959	<0.959	<0.959	**18.1**
	3/24/2022	<0.495	**37.5**	<0.901	<0.901	<0.869	<0.901	**18.9**
	3/31/2022	<0.495	**43.7**	<0.926	<0.926	<0.894	<0.926	**19.0**
	4/6/2022	<0.495	**41.6**	<0.926	<0.926	<0.894	<0.926	**18.1**
	4/13/2022	<0.495	**13.0**	<0.918	<0.918	<0.886	<0.918	**19.0**
	4/20/2022	<0.495	**72.4**	<0.904	<0.904	<0.872	<0.904	**18.3**
	4/28/2022	<0.495	**18.9**	<0.890	<0.890	<0.859	<0.890	**19.9**

ENSOLUM

TABLE 3 - GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY
Permian EOR - South Hobbs G/SA Unit
Hobbs, New Mexico

Well ID	Date	(mg/l)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH MRO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-2	5/26/2020	<0.495	**923**	**2.10**	**1.07 J**	<0.900	**6.16**	**23.1**
	6/30/2020	<5.00	**1,290**	<2.32	<2.32	<2.32	<2.32	**22.1**
	8/20/2020	<5.00	**1,150**	**2.75**	**3.29**	<2.26	**6.02**	**23.0**
	11/24/2020	<0.495	**1,300**	**1.73 J**	**2.17 J**	<0.835	**3.900**	**19.1**
	12/18/2020	**0.600 J**	**958**	**1.34 J**	**0.915 J**	<0.824	**2.26 J**	**15.1**
	12/23/2020	<0.495	**1,090**	**1.61 J**	**1.12 J**	<0.837	**2.73**	**15.6**
	12/30/2020	<0.495	**1,090**	<0.893	<0.825	<0.825	<0.825	**12.1**
	1/6/2021	<0.495	**1,240**	**1.99 J**	<0.824	<0.824	**1.99 J**	**13.1**
	1/12/2021	**11.2**	**1,450**	**1.64 J**	<0.833	<0.833	**1.64 J**	**13.9**
	1/20/2021	**9.60**	**1,390**	<0.907	<0.838	<0.838	<0.838	**18.2**
	1/27/2021	**15.0**	**1,600**	**1.31 J**	<0.834	<0.834	**1.31 J**	**13.4**
	2/3/2021	<0.495	**1,030**	**0.955 J**	**1.15 J**	<0.813	**2.11 J**	**20.9**
	2/10/2021	<0.495	**915**	**2.08**	<0.746	<0.746	**2.08**	**11.5**
	2/24/2021	<0.495	**793**	**1.01 J**	<0.832	<0.832	**1.01 J**	**19.4**
	3/4/2021	<0.495	**1,030**	**1.74 J**	<0.819	<0.819	**1.74 J**	**18.2**
	3/10/2021	<0.495	**1,010**	<0.893	<0.825	<0.825	<0.825	**18.5**
	3/17/2021	<0.495	**970**	**2.33**	<0.835	<0.835	**2.33**	**19.5**
	3/25/2021	<0.495	**653**	**1.50 J**	**1.16 J**	<0.857	**2.66 J**	**20.2**
	3/31/2021	<0.495	**1,110**	<0.941	<0.941	<0.908	<0.941	**18.3**
	4/8/2021	<0.495	**1,010**	**2.30 J**	**1.01 J**	<0.875	**3.31 J**	**18.9**
	4/15/2021	<0.495	**2,200**	**2.49 J**	**0.999 J**	**1.70 J**	**5.19**	**20.1**
	4/21/2021	<0.495	**1,230**	**1.01 J**	**0.913 J**	<0.856	**1.92 J**	**18.9**
	4/28/2021	<0.495	**1,100**	**2.54 J**	**1.19 J**	<0.872	**3.73 J**	**19.0**
	5/5/2021	<0.495	**1,350**	**2.09 J**	<0.890	<0.859	**2.09 J**	**18.8**
	5/13/2021	<0.495	**1,320**	**1.18 J**	<0.906	<0.875	**1.18 J**	**19.6**
	5/19/2021	<0.495	**1,730**	**1.46 J**	<0.901	<0.869	**1.46 J**	**19.8**
	5/27/2021	<0.495	**798**	<0.920	<0.920	<0.888	<0.920	**20.8**
	6/2/2021	<0.495	**1,580**	**2.01 J**	<0.895	<0.864	**2.01 J**	**18.1**
	6/10/2021	<0.495	**2,010**	**1.46 J**	<0.882	<0.851	**1.46 J**	**22.0**
	6/16/2021	<0.495	**810**	**0.963 J**	<0.826	<0.797	**0.963 J**	**18.0**
	6/22/2021	<0.495	**795**	**1.18 J**	<0.947	<0.914	**1.18 J**	**22.2**
	6/30/2021	<0.495	**975**	**1.21 J**	<0.893	<0.862	**1.21 J**	**20.3**
	7/1/2021	Levey Well Now Running Full Time						
	7/7/2021	<0.495	**889**	**1.62 J**	<0.906	<0.875	**1.62 J**	**18.3**
	7/14/2021	<0.495	**1,080**	<0.965	<0.965	<0.932	<0.965	**19.3**
	7/20/2021	<0.495	**1,170**	**1.16 J**	<0.898	<0.867	**1.16 J**	**19.8**
	7/27/2021	<0.495	**950**	**1.03 J**	<0.906	<0.875	**1.03 J**	**22.3**
	8/5/2021	<0.495	**778**	<0.909	<0.909	<0.877	<0.909	**22.1**
	8/11/2021	<0.495	**1,040**	**1.46 J**	<0.887	<0.856	**1.46 J**	**19.7**
	8/19/2021	<0.495	**2,010**	**1.93 J**	<0.959	<0.926	**1.93 J**	**20.7**
	8/25/2021	<0.495	**1,400**	**1.01 J**	<0.932	<0.900	**1.01 J**	**19.2**
	9/2/2021	<0.495	**1,830**	**3.03 J**	**2.11 J**	<0.920	**5.14**	**21.4**
	9/8/2021	<0.495	**1,570**	**1.70 J**	<0.932	<0.900	**1.70 J**	**20.5**
	9/14/2021	<0.495	**1,240**	**1.93 J**	**1.01 J**	<0.917	**2.94 J**	**19.4**
	9/21/2021	<0.495	**1,260**	**1.33 J**	<0.941	<0.908	**1.33 J**	**18.0**
	9/29/2021	<0.495	**1,040**	**1.60 J**	<1.19	<1.15	**1.60 J**	**18.5**
	10/7/2021	<0.495	**1,020**	**1.45 J**	<0.988	<0.954	**1.45 J**	**18.0**
	10/13/2021	<0.495	**834**	**1.56 J**	<0.935	<0.902	**1.56 J**	**20.6**
	10/21/2021	<0.495	**2,420**	**1.64 J**	<0.918	<0.886	**1.64 J**	**19.8**
	11/5/2021	<0.495	**628**	**1.39 J**	<0.965	<0.932	**1.39 J**	**22.8**
	11/11/2021	<0.495	**4,500**	**2.27 J**	<0.985	<0.950	**2.27 J**	**18.5**
	11/18/2021	<0.495	**574**	**2.56 J**	<0.923	<0.891	**2.56 J**	**19.5**
	11/24/2021	<5.00	**1,500**	**2.34 J**	<4.59	<4.59	**2.34 J**	**19.1**
	12/1/2021	<0.495	**313**	**1.69 J**	<0.912	<0.880	**1.69 J**	**19.2**
	12/8/2021	<0.495	**1,260**	**1.86 J**	<0.932	<0.900	**1.86 J**	**18.9**
	12/16/2021	<0.495	**957**	**1.15 J**	<0.947	<0.914	**1.15 J**	**18.0**
	12/22/2021	<0.495	**1,020**	**1.95 J**	<0.944	<0.911	**1.95 J**	**21.6**
	12/29/2021	<0.495	**1,250**	**1.15 J**	<0.935	<0.902	**1.15 J**	**18.0**
	1/6/2022	<0.495	**1,030**	**1.31 J**	<0.915	<0.883	**1.31 J**	**18.2**
	1/12/2022	<0.495	**1,450**	**3.63 J**	**1.34 J**	<1.00	**4.97 J**	**22.0**
	1/19/2022	<0.495	**1,420**	**2.83 J**	<0.915	<0.883	**2.83 J**	**18.2**
	1/26/2022	<0.495	**2,020**	<0.923	<0.923	<0.891	<0.923	**18.8**
	2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.						
	2/8/2022	<0.495	**2,050**	**1.31 J**	<0.909	<0.877	**1.31 J**	**20.7**
	2/16/2022	<0.495	**1,670**	**0.974 J**	<0.864	<0.834	**0.974 J**	**18.3**
	2/25/2022	<0.495	**1,280**	**1.43 J**	<0.965	<0.932	**1.43 J**	**19.9**
	3/3/2022	<0.495	**2,160**	**1.86 J**	<0.909	<0.877	**1.86 J**	**18.1**
	3/9/2022	<0.495	**1,680**	**1.77 J**	<0.947	<0.914	**1.77 J**	**18.4**
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.						
	3/16/2022	<0.495	**1,700**	**2.22 J**	<0.915	<0.883	**2.22 J**	**18.1**
	3/24/2022	<0.495	**1,330**	**1.29 J**	<0.909	<0.877	**1.29 J**	**19.1**
	3/31/2022	<0.495	**1,340**	**1.28 J**	<0.938	<0.905	**1.28 J**	**19.0**
	4/6/2022	<0.495	**1,720**	**1.00 J**	<0.938	<0.905	**1.00 J**	**18.1**
	4/13/2022	<0.495	**874**	**0.915 J**	<0.906	<0.875	**0.915 J**	**19.0**
	4/20/2022	<0.495	**1,060**	**1.06 J**	<0.901	<0.869	**1.06 J**	**18.6**
	4/28/2022	<0.495	**1,100**	**1.76 J**	<0.915	<0.883	**1.76 J**	**19.8**

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.

Released to Imaging: 3/20/2024 4:29:15 PM

Received by OCD: 11/8/2023 2:18:22 PM

ENSOLUM

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	Time	(ug/m3)																																					
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/25/2021	0823	**229**	<6.39	<7.76	**9.52**	<4.13	<10.3	**575**	<8.10	<7.93	**324**	<8.67	<9.82	<11.2	<17.0	**299**	**980**	<9.83	<6.94	<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**
	6/16/2021	1217	**2,160**	<0.639	<0.776	**43.0**	<0.413	<1.03	**806**	<0.810	<0.793	**609**	**17.9**	**145**	<1.12	<0.989	**308**	**1,670**	**32.2**	<0.694	**35.6**	**251**	<5.12	<0.819	<3.30	**201**	<0.851	<1.36	<0.590	**29.3**	<1.09	<1.07	**85.9**	**58.9**	<0.704	**88.9**	**34.4**	**32,400**
	6/22/2021	1240	**1,190**	<6.39	<7.76	<6.22	<4.13	<10.3	**2,440**	<8.10	<7.93	**347**	**9.49**	**78.0**	<11.2	<9.89	<8.18	**7,510**	**20.4**	<6.94	<51.1	**168**	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	<10.7	**38.8**	**29.6**	<7.04	**52.2**	**21.9**	**58,200**
	6/30/2021	1130	**3,870**	<6.39	<7.76	**41.1**	<4.13	<10.3	**2,590**	<8.10	<7.93	**1,230**	**17.9**	**78.5**	<11.2	<9.89	**1,120**	**6,450**	<9.83	<6.94	<51.1	**433**	<51.2	<8.19	<33.0	**310**	<8.51	**20.3**	<5.90	**86.6**	<10.9	<10.7	**45.1**	**32.2**	<7.04	**78.0**	**35.1**	**123,000**
	7/1/2021	1200	Levey Well Now Running Full Time																																					
	7/27/2021	1332	<238	<51.1	<62.1	<49.8	<33.0	<82.5	**334,000**	<64.8	<63.4	<189	<69.4	**107**	<89.9	<79.1	**405,000**	**3,160,000**	<78.7	<55.6	<409	<295	<409	<65.5	<264	**2,580**	<68.1	**218**	<47.2	<151	<87.0	<85.7	**95.2**	**177**	<56.3	**258**	**147**	**11,800,000**
	8/5/2021	1443	<1,190	<256	<311	<249	<165	<412	**348,000**	**3,740**	<314	<943	<347	<393	<450	<396	**474,000**	**2,890,000**	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	<1,230	<340	<543	<236	**1,270**	<435	<429	**545**	<393	<282	**698**	<347	**8,300,000**
	8/11/2021	1325	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	<13.8	<16.2	<15.9	<47.1	**49.4**	**427**	<22.5	<19.8	**190,000**	**1,210,000**	**61.5**	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	**802**	<21.8	<21.4	**253**	**393**	<14.1	**185**	**131**	**5,910,000**
	8/19/2021	1446	**817**	<12.8	<15.5	<12.4	<8.26	<20.6	**10,600**	<16.2	<15.9	<47.1	<17.3	**37.1**	<22.5	<19.8	**13,300**	**59,900**	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	**223**	<21.8	<21.4	<19.6	**24.8**	<14.1	**40.4**	**23.8**	**459,000**
	8/25/2021	0000	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	<0.689	<1.54	<0.793	<2.36	**42.9**	**467**	<1.12	<0.989	**11,300**	**36,000**	**112**	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	**357**	<1.09	**4.06**	**301**	**322**	<0.704	**219**	**184**	**290,000**
	9/2/2021	1340	**1,210**	<128	<155	<124	<82.6	<206	**97,800**	**359**	<159	**769**	<173	<196	<225	<198	**60,500**	**344,000**	<197	<139	<1,020	<737	<1,020	<164	<660	**1,280**	<170	<272	<118	**1,330**	<218	<214	<196	<196	<141	**418**	<173	**2,420,000**
	9/8/2021	1222	<297	<63.9	<77.6	<62.2	<41.3	<103	**82,700**	<79.3	<79.3	**1,270**	<86.7	<98.2	<112	<98.9	**57,300**	**395,000**	<98.3	<69.4	<511	<369	<512	<81.9	<330	**8,190**	<85.1	<136	<59.0	**208**	<109	<107	<98.2	**111**	<70.4	<173	<86.7	**1,690,000**
	9/14/2021	1117	<238	<51.1	<62.1	<49.8	<33.0	<82.5	**285,000**	<64.8	<63.4	<189	**209**	**355**	<89.9	<79.1	**260,000**	**1,700,000**	<78.7	<55.6	<409	<295	<409	<65.5	<246	**9,340**	<68.1	**460**	<47.2	**1,100**	<87.0	<85.7	**248**	**142**	<56.3	**564**	**224**	**8,010,000**
	9/21/2021	1307	<1,190	<256	<311	<249	<165	<412	**417,000**	<324	<317	**1,560**	<347	<393	<450	<396	**345,000**	**430,000**	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	**19,800**	<340	<543	<236	**1,020**	<435	<429	<393	<393	<282	<694	<347	**5,700,000**
	9/29/2021	1307	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	**16,600**	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	**5,970**	**127,000**	<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	**22.9**	<14.1	<34.7	<17.3	**297,000**
	10/7/2021	1350	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	**162,000**	<16.2	<15.9	**47.3**	<17.3	**132**	<22.5	<19.8	**142,000**	**1,110,000**	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	**279**	<21.8	<21.4	**66.3**	**154**	<14.1	**62.0**	**46.8**	**4,420,000**
	11/5/2021	1552	<238	**59.1**	<62.1	<49.8	<33.0	<82.5	**42,400**	<64.8	<63.4	**4,450**	**1,280**	**1,190**	<89.9	<79.1	**52,800**	**310,000**	**1,320**	**62.9**	<409	<295	<409	<65.5	<264	**1,150,000**	<68.1	<109	<47.2	**1,180**	<87.0	<85.7	**2,960**	**1,250**	<56.3	**5,460**	**1,470**	**1,430,000**
	11/8/2021	0936	<238	**98.4**	<62.1	<49.8	<33.0	<82.5	**137,000**	<64.8	<63.4	**4,660**	**672**	**332**	<89.9	<79.1	**142,000**	**1,010,000**	**454**	<55.6	<409	<295	<409	<65.5	<264	**6,270,000**	<68.1	**360**	<47.2	**1,020**	<87.0	<85.7	**756**	**342**	<56.3	**2,520**	**607**	**4,750,000**
		0937	Initiate Vacuum Recovery Event																																					
		1013	<238	<51.1	<62.1	<49.8	<33.0	<82.5	**33,700**	<64.8	<63.4	**1,820**	**1,690**	**1,050**	<89.9	<79.1	**57,700**	**160,000**	**1,450**	<55.6	<409	<295	<409	<65.5	<264	**1,380,000**	<68.1	<109	<47.2	**1,320**	<87.0	<85.7	**2,220**	**1,100**	**24,100**	**6,890**	**1,770**	**1,190,000**
		1030	**7,940**	<51.1	<62.1	<49.8	<33.0	<82.5	**2,850**	<64.8	<63.4	**720**	**728**	**1,190**	<89.9	<79.1	**5,690**	**10,400**	**1,110**	<55.6	<409	<295	<409	**105**	<264	**203,000**	<68.1	<109	<47.2	**235**	<87.0	<85.7	**2,970**	**1,270**	**1,860**	**3,550**	**1,060**	**241,000**
		1037	Vacuum Recovery Event Terminated																																					
		1151	<238	<51.1	<62.1	<49.8	<33.0	<82.5	**23,700**	<64.8	<63.4	**933**	**1,170**	**1,360**	<89.9	<79.1	**32,800**	**87,400**	**1,320**	**63.9**	<409	<295	<409	<65.5	<264	**497,000**	<68.1	<109	<47.2	**881**	<87.0	<85.7	**3,650**	**1,540**	<56.3	**4,990**	**1,360**	**727,000**
	11/11/2021	1208	**9,240**	<51.1	<62.1	<49.8	<33.0	<82.5	**47,200**	<64.8	<63.4	**1,300**	**559**	**766**	<89.9	<79.1	**54,400**	**279,000**	**413**	<55.6	<409	<295	<409	<65.5	<264	**973,000**	<68.1	**174**	<47.2	**731**	<87.0	<85.7	**574**	**307**	<56.3	**1,730**	**507**	**1,030,000**
	11/18/2021	1505	**18,700**	<63.9	<77.6	<62.2	<41.3	<103	**97,100**	<81.0	<79.3	<236	**468**	**653**	<112	<98.9	**126,000**	**1,540,000**	**388**	<69.4	<511	<369	<512	<81.9	<330	**140,000**	<85.1	<136	<59.0	**610**	<109	<107	**937**	**1,080**	<70.4	**1,440**	**525**	**3,340,000**
	11/22/2021	0856	<238	<51.1	<62.1	<49.8	<33.0	<82.5	**260,000**	<64.8	<63.4	<189	**289**	**569**	<89.9	<79.1	**232,000**	**1,690,000**	**259**	<55.6	<409	<295	<409	<65.5	<264	**293,000**	<68.1	<109	<47.2	**509**	<87.0	<85.7	**477**	**242**	<56.3	**915**	**305**	**10,000,000**
		0858	Initiate Vacuum Recovery Event																																					
		1029	**1,730**	<12.8	<15.5	<12.4	<8.26	<20.6	**16,800**	<16.2	<15.9	<47.1	**55.1**	**145**	<22.5	<19.8	**28,700**	**94,800**	**60.0**	<13.9	<102	<73.7	<102	<16.4	<66.0	**24,400**	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	**133**	**67.2**	<14.1	**192**	**66.8**	**284,000**
		1053	**965**	<6.39	<7.76	<6.22	<4.13	<10.3	**1,110**	<8.10	<7.93	**56.8**	**23.2**	<9.82	<11.2	<9.89	**1,780**	**6,350**	**36.4**	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	**2,020**	<8.51	<13.6	<5.90	<18.8	<10.9	<10.7	**153**	**64.3**	<7.04	**91.9**	**35.2**	**52,500**
		1055	Vacuum Recovery Event Terminated																																					
		1205	**3,490**	<12.8	<15.5	<12.4	<8.26	<20.6	**5,300**	<16.2	<15.9	<47.1	**74.6**	<19.6	<22.5	<19.8	**8,180**	**17,900**	**93.4**	<13.9	<102	**134**	<102	<16.4	<66.0	**65,100**	<17.0	<27.2	<11.8	**62.9**	<21.8	<21.4	**350**	**159**	<14.1	**267**	**99.3**	**222,000**
	11/24/2021	1048	**42,100**	<639	<62.1	<49.8	<33.0	<82.5	**187,000**	<810	<63.4	<189	**181**	**423**	<89.9	<79.1	**341,000**	**1,880,000**	**197**	<55.6	<5,110	**4,160**	<5,120	**13,300**	<264	**114,000**	<68.1	<1,360	<47.2	<1,180	<87.0	<1,070	**520**	**648**	<56.3	**572**	**307**	**7,640,000**
	12/1/2021	1200	<297	<62.6	<77.6	<62.2	<41.3	<103	**985,000**	<81.0	<79.3	<236	**139**	**479**	<112	<98.9	**1,470,000**	**14,000,000**	**140**	<69.4	<511	<369	<512	<81.9	<330	<307	<85.1	<136	<59.0	**339**	<109	<107	**618**	**775**	<70.4	**351**	**244**	**33,600,000**
	12/6/2021	0959	**19,700**	<128	<155	<124	<82.6	<206	**329,000**	<162	<159	<471	<173	<196	<225	<198	**438,000**	**2,620,000**	<197	<139	<1,020	**11,900**	<1,020	<164	<660	**9,730**	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	**13,200,000**
		1000	Initiate Vacuum Recovery Event																																					
		1049	**11,100**	<63.9	<77.6	<62.2	<41.3	<103	**123,000**	<81.0	<79.3	<236	<86.7	**160**	<112	<98.9	**173,000**	**878,000**	<98.3	<69.4	<511	**6,930**	<512	<81.9	<330	**6,170**	<85.1	<136	<59.0	<188	<109	<107	**227**	**213**	<70.4	**200**	**89.7**	**5,000,000**
		1155	**1,310**	<0.639	<0.776	<0.622	<0.413	<1.03	<0.689	<0.810	<0.793	**40.7**	**11.2**	<0.982	<1.12	**1.42**	<0.818	**15,500**	**10.5**	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	**6,540**	<0.851	<1.36	<0.590	**21.5**	<1.09	**1.18**	<0.982	<0.982	<0.704	**44.7**	**29.3**	**172,000**
		1210	Vacuum Recovery Event Terminated																																					
		1340	**5,540**	**1,260**	<0.776	**21.4**	<0.413	<1.03	<0.689	<40.5	<0.793	<36.0	**1,170**	<0.982	<1.12	<0.989	**17,300**	**77,900**	**23.0**	<0.694	<256	<3.69	<256	<40.9	<3.30	**4,620**	<0.851	<67.9	<0.590	**2,970**	<1.09	<53.6	<0.982	<0.982	<0.704	**603**	**313**	**392,000**
	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

Released to Imaging: 3/20/2024 4:29:15 PM

Received by OCD: 11/8/2023 2:18:22 PM

ENSOLUM

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	Time	(ug/m3)																																						
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/3/2022	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**
		0852	**14,900**	<639	<776	<622	<413	<1,030	**119,000**	<810	<793	<2,360	<867	<982	<1,120	<989	**160,000**	**1,440,000**	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	**25,800**	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	**6,110,000**
		0853	Initiate Vacuum Recovery Event																																						
	1/17/2022	0919	**227**	<0.639	<0.776	<0.622	<0.413	<1.03	**3,650**	<0.810	<0.793	**19.8**	**2.15**	**1.70**	**1.52**	**1.84**	**6,260**	**19,100**	**1.22**	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	**202**	<0.851	<1.36	<0.590	**8.32**	<1.09	<1.07	**2.84**	**2.87**	<0.704	**5.20**	**2.15**	**132,000**
		1004	**90.3**	<0.639	<0.776	<0.622	**1.30**	<1.03	**747**	<0.810	<0.793	**56.2**	**2.58**	**4.13**	**1.40**	**2.60**	**1,610**	**4,300**	**2.46**	<0.694	<5.11	**16.4**	<5.12	<0.819	<3.30	**114**	<0.851	**2.69**	<0.590	**15.6**	<1.09	<1.07	**11.5**	**8.44**	<0.704	**7.50**	**3.13**	**31,600**
		1021	Vacuum Recovery Event Terminated																																						
		1134	**466**	<0.639	<0.776	<0.622	**1.64**	<1.03	**2,400**	<0.810	<0.793	**16.8**	**5.42**	**9.67**	**1.38**	**2.14**	**4,620**	**10,800**	**5.26**	<0.694	<5.11	**54.3**	<5.12	<0.819	**3.42**	**494**	<0.851	**27.5**	<0.590	**23.8**	<1.09	<1.07	**20.8**	**18.7**	<0.704	**17.7**	**7.46**	**95,400**
	1/19/2022	1208	**454**	<31.9	<38.8	<31.1	<20.7	<51.5	**11,300**	<40.5	<39.6	**149**	<43.4	**94.2**	<56.2	<49.5	**28,800**	**171,000**	<49.2	<34.7	<256	<184	<256	**966**	<165	**3,740**	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	**81.0**	**221**	<35.2	<86.7	<43.4	**508,000**
	1/26/2022	1251	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	**28,900**	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	**22,900**	**313,000**	<22.5	<13.9	<102	<73.7	<102	<16.4	<66.0	**248**	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	**1,180,000**
		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																																						
	2/2/2022	0950	**337**	**415**	<15.5	<12.4	<8.26	<20.6	**16,700**	<16.2	<15.9	<47.1	**147**	<19.6	<22.5	<19.8	**36,200**	**114,000**	<19.7	<13.9	<102	**231**	<102	<16.4	<66.0	**88.2**	<17.0	<27.2	<11.8	**313**	<21.8	<21.4	**27.0**	<19.6	<14.1	**370**	**108**	**409,000**
		1030	**56.8**	**29.9**	<0.776	<0.622	<0.413	<1.03	**2,280**	<0.810	<0.793	**10.5**	**25.2**	<0.982	<1.12	**2.47**	**5,440**	**9,380**	**2.05**	<0.694	<5.11	**34.5**	<5.12	<0.819	<3.30	**30.2**	<0.851	<1.36	<0.590	**46.3**	<1.09	<1.07	**9.18**	**6.58**	<0.704	**62.9**	**17.6**	**71,500**
		1047	Vacuum Recovery Event Terminated																																						
		1158	**80.8**	**29.7**	<0.776	<0.622	<0.413	<1.03	**2,750**	<0.810	<0.793	**4.13**	**19.1**	<0.982	<1.12	**2.58**	**5,850**	**8,670**	**1.82**	<0.694	<5.11	**36.9**	<5.12	<0.819	<3.30	**43.0**	<0.851	<1.36	<0.590	**38.8**	<1.09	<1.07	**7.80**	**5.35**	<0.704	**46.8**	**13.0**	**59,500**
	2/8/2022	1200	**88.6**	<0.639	<0.776	<0.622	<0.413	<1.03	**1,310**	<0.810	<0.793	<2.36	**27.2**	<0.982	<1.12	<0.989	**2,640**	**13,700**	**14.5**	<0.694	<5.11	**15.5**	<5.12	<0.819	**3.64**	**76.2**	<0.851	**3.38**	<0.590	**12.3**	<1.09	<1.07	**43.8**	**46.5**	<0.704	**91.9**	**39.4**	**83,000**
	2/16/2022	1224	**215**	<12.8	<15.5	<12.4	<8.26	<20.6	**37,500**	<16.2	<15.9	<47.1	<17.3	**22.1**	<22.5	<19.8	**7,280**	**62,800**	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	**156**	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	**23.1**	**19.6**	<14.1	**38.4**	<17.3	**272,000**
		1021	**1,950**	<0.639	<0.776	<0.622	<0.413	<1.03	**30,900**	<0.810	<0.793	**120**	**3.00**	<0.982	<1.12	<0.989	**5,360**	**176,000**	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	**73.8**	<1.09	<1.07	**1.84**	**1.47**	<0.704	**3.42**	**1.12**	**261,000**
		1022	Initiate Vacuum Recovery Event																																						
	2/23/2022	1043	**104**	**101**	<0.776	<0.622	**1.44**	<1.03	**3,280**	<0.810	<0.793	**62.4**	**4.60**	**1.30**	**1.64**	**2.42**	**1,040**	**2,500**	<0.983	<0.694	<5.11	**34.2**	<5.12	<0.819	<3.30	**14.2**	<0.851	<1.36	<0.590	**57.6**	<1.09	<1.07	**3.47**	**3.29**	<0.704	**6.89**	**1.96**	**30,000**
		1118	<29.7	**25.9**	<7.76	<6.22	<4.13	<10.3	**737**	<8.10	<7.93	**42.2**	<8.67	<9.82	<11.2	<9.89	**290**	**610**	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	**20.3**	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	**8,510**
		1134	Vacuum Recovery Event Terminated																																						
		1241	<2.97	<0.639	<0.776	<0.622	**1.40**	<1.03	**1,380**	<0.810	<0.793	<2.36	<0.867	<0.982	**1.58**	**1.76**	**272**	**1,290**	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	**7.61**	<1.09	<1.07	<0.982	<0.982	<0.704	<1.73	<0.867	**13,200**
	2/25/2022	1145	**250**	<0.639	<0.776	**21.2**	**0.413**	<1.03	**12,400**	<0.810	<0.793	**4.68**	**2.41**	**4.13**	<1.12	<0.989	**3,740**	**26,100**	**2.23**	<0.694	<5.11	**46.9**	<5.12	<0.819	**3.50**	**25.8**	<0.851	<1.36	<0.590	**9.12**	<1.09	<1.07	**7.85**	**6.23**	<0.704	**8.15**	**2.49**	**107,000**
		1405	<149	<31.9	<38.8	<31.1	<20.7	<51.5	**520**	<40.5	<39.6	**837**	<43.4	<49.1	<56.2	<49.5	**220**	**3,390**	<49.2	**47.6**	<256	<184	<256	**766**	<165	**8,480**	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300
		1406	Initiate Vacuum Recovery Event																																						
	2/28/2022	1510	<2.97	**1.79**	<0.776	<0.622	<0.413	<1.03	**305**	<0.810	<0.793	**7.45**	**2.05**	**2.40**	<1.12	**2.13**	**182**	**511**	**1.12**	<0.694	<5.11	**10.6**	<5.12	<0.819	<3.30	**25.6**	<0.851	<1.36	<0.590	**3.74**	<4.66	<1.07	**4.96**	**4.91**	<0.704	**3.20**	**1.44**	**6,440**
		1428	<149	<31.9	<38.8	<31.1	<20.7	<51.5	**654**	<40.5	<39.6	**684**	<43.4	<49.1	<56.2	<49.5	**263**	**2,520**	<49.2	**38.5**	<256	<184	<256	<40.9	<165	**6,370**	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300
		1526	Vacuum Recovery Event Terminated																																						
		1635	<2.97	**1.30**	<0.776	<0.622	**1.53**	<1.03	**76.8**	<0.810	<0.793	**7.50**	**1.76**	**2.07**	**1.28**	**2.53**	**64.2**	**117**	**1.17**	**0.847**	<5.11	<3.69	<5.12	<0.819	<3.30	**40.3**	<0.851	<1.36	<0.590	**2.26**	<1.09	<1.07	**4.70**	**4.25**	<0.704	**3.42**	**1.38**	**2,420**
	3/9/2022	1225	**2,260**	<128	<268	<124	<82.6	<206	**43,400**	<162	<159	<471	<173	<196	<225	<198	**8,470**	**41,200**	<197	<139	<1,020	<737	<1,020	<164	<660	**5,330**	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	**352,000**
		0855	<297	**110**	<77.6	<62.2	<41.3	<103	**277,000**	<81.0	<79.3	**354**	<86.7	<98.2	<112	<98.9	**33,500**	**286,000**	<98.3	<69.4	<511	**894**	<512	<81.9	<330	**7,050**	<85.1	<136	<59.0	**254**	<109	<107	<98.2	**158**	<70.4	<173	<86.7	**1,230,000**
		0856	Initiate Vacuum Recovery Event																																						
	3/14/2022	0923	<11.9	**7.60**	<3.11	<2.49	<1.65	**7.11**	**3,110**	<3.24	<3.17	<9.43	**15.5**	**26.7**	<4.50	<3.96	**1,440**	**7,690**	**8.01**	<2.78	<20.4	**38.6**	<20.5	<3.28	<13.2	**53.1**	<3.40	<5.43	<2.36	**28.8**	<4.35	<4.29	**24.5**	**57.4**	<2.82	**30.3**	**12.1**	**47,900**
		1000	<2.97	**1.91**	<0.776	<0.622	**1.79**	<1.03	**589**	<0.810	<0.793	**9.22**	**3.49**	**4.29**	**1.19**	**2.37**	**234**	**395**	**1.61**	**0.951**	<5.11	**11.9**	<5.12	<0.819	<3.30	**9.61**	<0.851	<1.36	<0.590	**8.97**	<1.09	<1.07	**5.79**	**10.7**	<0.704	**9.28**	**3.44**	**7,930**
		1016	Vacuum Recovery Event Terminated																																						
		1126	**165**	**81.1**	<3.11	**5.23**	<1.65	<4.12	**761**	<3.24	<3.17	**48.8**	**1,130**	**236**	<4.50	<3.96	**369**	**494**	**342**	<2.78	<20.4	**39.5**	<20.5	<3.28	<13.2	**261**	<3.40	<5.43	<2.36	**832**	<4.35	<4.29	**535**	**237**	<2.82	**1,750**	**815**	**39,100**
	3/16/2022	1113	**137**	<12.8	<15.5	<12.4	<8.26	<20.6	**641**	<16.2	<15.9	<47.1	**50.3**	**41.5**	<22.5	<19.8	**406**	**3,260**	**34.6**	<13.9	<102	<73.7	<102	<16.4	<66.0	**81.6**	<17.0	**57.0**	<11.8	<37.7	<21.8	<21.4	**147**	**60.9**	<14.1	**106**	**57.7**	**23,700**
	3/24/2022	1335	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	**847**	<0.810	<0.793	<2.36	**8.63**	**66.3**	<1.12	<0.989	**382**	**7,020**	**13.9**	<0.694	<5.11	<3.69	<5.12	<0.819	**9.32**	**135**	<0.851	<1.36	<0.590	**14.2**	<1.09	<1.07	**71.7**	**35.7**	<0.704	**26.3**	**13.4**	**51,200**
		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																																						
	3/30/2022	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																																						
		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**
	3/31/2022	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**
	4/6/2022	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**
		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																																						
	4/11/2022	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**
		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																																						
	4/25/2022	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**

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

ENSOLUM

APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 880-13433-1
Laboratory Sample Delivery Group: Hobbs NM
Client Project/Site: Levey Well Hobb NM - 03B1417001

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
4/12/2022 7:42:43 PM

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

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

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Definitions/Glossary

Client: Ensolum Job ID: 880-13433-1
Project/Site: Levey Well Hobb NM - 03B1417001 SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Definitions/Glossary

Client: Ensolum Job ID: 880-13433-1
Project/Site: Levey Well Hobb NM - 03B1417001 SDG: Hobbs NM

Glossary (Continued)

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

Case Narrative

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

Job ID: 880-13433-1
SDG: Hobbs NM

Job ID: 880-13433-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-13433-1

Receipt
The sample was received on 4/6/2022 2:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC/MS VOA
Method 8260C: The matrix spike(MS) for analytical batch 860-47998 exceeded control limits for the following analyte(s): Dichloro difluoromethane, Note that this analyte is a known poor performer when analyzed using this method.

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 860-47952 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-47953 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals
Method 200.7: Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-48096 and analytical batch 860-48209 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

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

Released to Imaging: 3/20/2024 4:29:15 PM

Client Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/06/22 08:50
Date Received: 04/06/22 14:45

Lab Sample ID: 880-13433-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00282**		0.00100	0.000214	mg/L			04/07/22 23:53	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/07/22 23:53	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/07/22 23:53	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/07/22 23:53	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/07/22 23:53	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/07/22 23:53	1
2-Butanone	**0.00381**	**J**	0.0500	0.00270	mg/L			04/07/22 23:53	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/07/22 23:53	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/07/22 23:53	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/07/22 23:53	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/07/22 23:53	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/07/22 23:53	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/07/22 23:53	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/07/22 23:53	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/07/22 23:53	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/07/22 23:53	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/07/22 23:53	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/07/22 23:53	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/07/22 23:53	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/07/22 23:53	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/07/22 23:53	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/07/22 23:53	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/07/22 23:53	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/07/22 23:53	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/07/22 23:53	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/07/22 23:53	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/07/22 23:53	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/07/22 23:53	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/07/22 23:53	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/07/22 23:53	1
Ethylbenzene	**0.0106**		0.00100	0.000515	mg/L			04/07/22 23:53	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 23:53	1
Isopropylbenzene	**0.00491**		0.00100	0.000161	mg/L			04/07/22 23:53	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/07/22 23:53	1
m,p-Xylenes	**0.0405**		0.0100	0.000330	mg/L			04/07/22 23:53	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/07/22 23:53	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/07/22 23:53	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/07/22 23:53	1
N-Propylbenzene	**0.00250**		0.00100	0.000179	mg/L			04/07/22 23:53	1
o-Xylene	**0.00647**		0.00100	0.000192	mg/L			04/07/22 23:53	1
p-Cymene (p-Isopropyltoluene)	**0.000581**	**J**	0.00100	0.000233	mg/L			04/07/22 23:53	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/07/22 23:53	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/07/22 23:53	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/07/22 23:53	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/07/22 23:53	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/07/22 23:53	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/07/22 23:53	1
Toluene	**0.0215**		0.00100	0.000500	mg/L			04/07/22 23:53	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/07/22 23:53	1

Client Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/06/22 08:50
Date Received: 04/06/22 14:45

Lab Sample ID: 880-13433-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/07/22 23:53	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 23:53	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 23:53	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/07/22 23:53	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/07/22 23:53	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/07/22 23:53	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/07/22 23:53	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/07/22 23:53	1
1,2,4-Trimethylbenzene	**0.0125**		0.00100	0.000252	mg/L			04/07/22 23:53	1
1,3,5-Trimethylbenzene	**0.00386**		0.00100	0.000279	mg/L			04/07/22 23:53	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/07/22 23:53	1
Xylenes, Total	**0.0470**		0.0100	0.000330	mg/L			04/07/22 23:53	1
Total BTEX	**0.0819**		0.0100	0.000214	mg/L			04/07/22 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*74 - 124*		*04/07/22 23:53*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*04/07/22 23:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*63 - 144*		*04/07/22 23:53*	*1*
Toluene-d8 (Surr)	*103*		*80 - 117*		*04/07/22 23:53*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.540**		0.500	0.0711	mg/L			04/07/22 18:44	1
Nitrate as N	**0.0931**	**J**	0.100	0.0391	mg/L			04/07/22 18:44	1
Chloride	**218**		0.500	0.200	mg/L			04/07/22 18:44	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/07/22 18:44	1
Fluoride	**0.868**		0.500	0.100	mg/L			04/07/22 18:44	1
Sulfate	**42.4**		0.500	0.109	mg/L			04/07/22 18:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**256**		10.0	1.47	mg/L		04/08/22 09:00	04/08/22 13:18	50
Magnesium	**50.3**		0.200	0.0500	mg/L		04/08/22 09:00	04/08/22 13:00	1
Potassium	**3.90**		0.500	0.107	mg/L		04/08/22 09:00	04/08/22 13:00	1
Sodium	**76.6**		0.500	0.0667	mg/L		04/08/22 09:00	04/08/22 13:00	1
SiO2	**63.8**		1.07	0.0781	mg/L		04/08/22 09:00	04/08/22 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.94**				%			04/12/22 16:28	1
Alkalinity	**619**		4.00	4.00	mg/L			04/07/22 17:36	1
Bicarbonate Alkalinity as CaCO3	**619**		4.00	4.00	mg/L			04/07/22 17:36	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/07/22 17:36	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			04/07/22 17:36	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			04/07/22 17:36	1
Total Dissolved Solids	**1220**		10.0	10.0	mg/L			04/07/22 17:11	1
pH	**6.4**	**HF**			SU			04/08/22 12:23	1
Temperature	**18.2**	**HF**			Celsius			04/08/22 12:23	1

Surrogate Summary

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

Job ID: 880-13433-1
SDG: Hobbs NM

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(74-124)	(75-131)	(63-144)	(80-117)
860-23970-C-2 MS	Matrix Spike	103	105	112	102
880-13433-1	Levey Well	104	103	120	103
LCS 860-47998/3	Lab Control Sample	102	106	115	101
LCSD 860-47998/4	Lab Control Sample Dup	101	106	112	101
MB 860-47998/9	Method Blank	107	102	115	103

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 Hobb NM - 03B1417001

Job ID: 880-13433-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-47998/9
Matrix: Water
Analysis Batch: 47998

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/07/22 21:30	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/07/22 21:30	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/07/22 21:30	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/07/22 21:30	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/07/22 21:30	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/07/22 21:30	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/07/22 21:30	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/07/22 21:30	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/07/22 21:30	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/07/22 21:30	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/07/22 21:30	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/07/22 21:30	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/07/22 21:30	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/07/22 21:30	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/07/22 21:30	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/07/22 21:30	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/07/22 21:30	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/07/22 21:30	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/07/22 21:30	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/07/22 21:30	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/07/22 21:30	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/07/22 21:30	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/07/22 21:30	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/07/22 21:30	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/07/22 21:30	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/07/22 21:30	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/07/22 21:30	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/07/22 21:30	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/07/22 21:30	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/07/22 21:30	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/07/22 21:30	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 21:30	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/07/22 21:30	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/07/22 21:30	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/07/22 21:30	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/07/22 21:30	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/07/22 21:30	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/07/22 21:30	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/07/22 21:30	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/07/22 21:30	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/07/22 21:30	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/07/22 21:30	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/07/22 21:30	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/07/22 21:30	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/07/22 21:30	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/07/22 21:30	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/07/22 21:30	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/07/22 21:30	1

QC Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-47998/9
Matrix: Water
Analysis Batch: 47998

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/07/22 21:30	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/07/22 21:30	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 21:30	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 21:30	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/07/22 21:30	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/07/22 21:30	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/07/22 21:30	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/07/22 21:30	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/07/22 21:30	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/07/22 21:30	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/07/22 21:30	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/07/22 21:30	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/07/22 21:30	1
Total BTEX	<0.000214	U	0.0100	0.000214	mg/L			04/07/22 21:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*74 - 124*		*04/07/22 21:30*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*04/07/22 21:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*63 - 144*		*04/07/22 21:30*	*1*
Toluene-d8 (Surr)	*103*		*80 - 117*		*04/07/22 21:30*	*1*

Lab Sample ID: LCS 860-47998/3
Matrix: Water
Analysis Batch: 47998

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	0.05017		mg/L		100	66 - 142
Bromobenzene	0.0500	0.05039		mg/L		101	75 - 125
Bromochloromethane	0.0500	0.05151		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05048		mg/L		101	75 - 125
Bromoform	0.0500	0.04239		mg/L		85	75 - 125
Bromomethane	0.0500	0.06000		mg/L		120	60 - 140
2-Butanone	0.250	0.2670		mg/L		107	60 - 140
Carbon tetrachloride	0.0500	0.05055		mg/L		101	62 - 125
Chlorobenzene	0.0500	0.04963		mg/L		99	60 - 133
Chloroethane	0.0500	0.05691		mg/L		114	60 - 140
Chloroform	0.0500	0.05516		mg/L		110	70 - 130
Chloromethane	0.0500	0.05216		mg/L		104	60 - 140
2-Chlorotoluene	0.0500	0.05252		mg/L		105	73 - 125
4-Chlorotoluene	0.0500	0.05242		mg/L		105	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05435		mg/L		109	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05097		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.04539		mg/L		91	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04313		mg/L		86	59 - 125
1,2-Dibromoethane	0.0500	0.04969		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.05133		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05028		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05065		mg/L		101	75 - 125

QC Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-47998/3
Matrix: Water
Analysis Batch: 47998

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.04303		mg/L		86	70 - 130
1,1-Dichloroethane	0.0500	0.05419		mg/L		108	72 - 125
1,2-Dichloroethane	0.0500	0.05720		mg/L		114	68 - 127
1,1-Dichloroethene	0.0500	0.05058		mg/L		101	59 - 172
1,2-Dichloropropane	0.0500	0.05187		mg/L		104	74 - 125
1,3-Dichloropropane	0.0500	0.05170		mg/L		103	75 - 125
2,2-Dichloropropane	0.0500	0.05131		mg/L		103	75 - 125
1,1-Dichloropropene	0.0500	0.05265		mg/L		105	75 - 125
Ethylbenzene	0.0500	0.05092		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.04996		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.05039		mg/L		101	75 - 125
Methylene Chloride	0.0500	0.05268		mg/L		105	75 - 125
m,p-Xylenes	0.0500	0.05049		mg/L		101	75 - 125
MTBE	0.0500	0.05512		mg/L		110	65 - 135
Naphthalene	0.0500	0.05172		mg/L		103	70 - 130
n-Butylbenzene	0.0500	0.05231		mg/L		105	75 - 125
N-Propylbenzene	0.0500	0.05167		mg/L		103	75 - 125
o-Xylene	0.0500	0.05115		mg/L		102	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04986		mg/L		100	75 - 125
sec-Butylbenzene	0.0500	0.05099		mg/L		102	75 - 125
Styrene	0.0500	0.05008		mg/L		100	75 - 125
tert-Butylbenzene	0.0500	0.05002		mg/L		100	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04782		mg/L		96	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05171		mg/L		103	74 - 125
Tetrachloroethene	0.0500	0.04785		mg/L		96	71 - 125
Toluene	0.0500	0.04945		mg/L		99	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05312		mg/L		106	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05062		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05152		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05105		mg/L		102	75 - 135
1,1,1-Trichloroethane	0.0500	0.05280		mg/L		106	75 - 125
1,1,2-Trichloroethane	0.0500	0.05128		mg/L		103	75 - 127
Trichloroethene	0.0500	0.04916		mg/L		98	62 - 137
Trichlorofluoromethane	0.0500	0.05360		mg/L		107	60 - 140
1,2,3-Trichloropropane	0.0500	0.05438		mg/L		109	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05170		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05061		mg/L		101	60 - 140
Vinyl chloride	0.0500	0.05213		mg/L		104	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*
Dibromofluoromethane (Surr)	*106*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*115*		*63 - 144*
Toluene-d8 (Surr)	*101*		*80 - 117*

QC Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-47998/4
Matrix: Water
Analysis Batch: 47998

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	0.04866		mg/L		97	66 - 142	3	25
Bromobenzene	0.0500	0.04955		mg/L		99	75 - 125	2	25
Bromochloromethane	0.0500	0.05105		mg/L		102	60 - 140	1	25
Bromodichloromethane	0.0500	0.04922		mg/L		98	75 - 125	3	25
Bromoform	0.0500	0.04103		mg/L		82	75 - 125	3	25
Bromomethane	0.0500	0.05659		mg/L		113	60 - 140	6	25
2-Butanone	0.250	0.2489		mg/L		100	60 - 140	7	25
Carbon tetrachloride	0.0500	0.04906		mg/L		98	62 - 125	3	25
Chlorobenzene	0.0500	0.04883		mg/L		98	60 - 133	2	25
Chloroethane	0.0500	0.05427		mg/L		109	60 - 140	5	25
Chloroform	0.0500	0.05380		mg/L		108	70 - 130	2	25
Chloromethane	0.0500	0.05015		mg/L		100	60 - 140	4	25
2-Chlorotoluene	0.0500	0.05078		mg/L		102	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05136		mg/L		103	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.05277		mg/L		106	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.04940		mg/L		99	74 - 125	3	25
Dibromochloromethane	0.0500	0.04477		mg/L		90	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04284		mg/L		86	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.04858		mg/L		97	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05028		mg/L		101	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.04946		mg/L		99	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04982		mg/L		100	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.04100		mg/L		82	70 - 130	5	25
1,1-Dichloroethane	0.0500	0.05328		mg/L		107	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.05521		mg/L		110	68 - 127	4	25
1,1-Dichloroethene	0.0500	0.04884		mg/L		98	59 - 172	4	25
1,2-Dichloropropane	0.0500	0.05047		mg/L		101	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.05019		mg/L		100	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.04931		mg/L		99	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.05037		mg/L		101	75 - 125	4	25
Ethylbenzene	0.0500	0.04934		mg/L		99	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.04973		mg/L		99	75 - 125	0	25
Isopropylbenzene	0.0500	0.04865		mg/L		97	75 - 125	4	25
Methylene Chloride	0.0500	0.05102		mg/L		102	75 - 125	3	25
m,p-Xylenes	0.0500	0.04927		mg/L		99	75 - 125	2	25
MTBE	0.0500	0.05360		mg/L		107	65 - 135	3	25
Naphthalene	0.0500	0.05258		mg/L		105	70 - 130	2	25
n-Butylbenzene	0.0500	0.05104		mg/L		102	75 - 125	2	25
N-Propylbenzene	0.0500	0.05045		mg/L		101	75 - 125	2	25
o-Xylene	0.0500	0.05018		mg/L		100	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04878		mg/L		98	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04984		mg/L		100	75 - 125	2	25
Styrene	0.0500	0.04896		mg/L		98	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04900		mg/L		98	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.04738		mg/L		95	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05055		mg/L		101	74 - 125	2	25
Tetrachloroethene	0.0500	0.04617		mg/L		92	71 - 125	4	25
Toluene	0.0500	0.04806		mg/L		96	59 - 139	3	25

QC Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-47998/4
Matrix: Water
Analysis Batch: 47998

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	0.05131		mg/L		103	75 - 125	3	25
trans-1,3-Dichloropropene			0.0500	0.04922		mg/L		98	66 - 125	3	25
1,2,3-Trichlorobenzene			0.0500	0.05269		mg/L		105	75 - 137	2	25
1,2,4-Trichlorobenzene			0.0500	0.05115		mg/L		102	75 - 135	0	25
1,1,1-Trichloroethane			0.0500	0.05113		mg/L		102	75 - 125	3	25
1,1,2-Trichloroethane			0.0500	0.05034		mg/L		101	75 - 127	2	25
Trichloroethene			0.0500	0.04780		mg/L		96	62 - 137	3	25
Trichlorofluoromethane			0.0500	0.05165		mg/L		103	60 - 140	4	25
1,2,3-Trichloropropane			0.0500	0.04708		mg/L		94	75 - 125	14	25
1,2,4-Trimethylbenzene			0.0500	0.05094		mg/L		102	75 - 125	1	25
1,3,5-Trimethylbenzene			0.0500	0.04953		mg/L		99	60 - 140	2	25
Vinyl chloride			0.0500	0.05028		mg/L		101	60 - 140	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*106*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*112*		*63 - 144*
Toluene-d8 (Surr)	*101*		*80 - 117*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-47952/3
Matrix: Water
Analysis Batch: 47952

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			04/07/22 12:34	1
Chloride	<0.200	U	0.500	0.200	mg/L			04/07/22 12:34	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/07/22 12:34	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/07/22 12:34	1

Lab Sample ID: LCS 860-47952/6
Matrix: Water
Analysis Batch: 47952

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide			10.0	9.485		mg/L		95	90 - 110
Chloride			10.0	9.556		mg/L		96	90 - 110
Fluoride			10.0	10.31		mg/L		103	90 - 110
Sulfate			10.0	9.728		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-47952/7
Matrix: Water
Analysis Batch: 47952

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	9.516		mg/L		95	90 - 110	0	20
Chloride			10.0	9.432		mg/L		94	90 - 110	1	20
Fluoride			10.0	10.33		mg/L		103	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-47952/7
Matrix: Water
Analysis Batch: 47952

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	9.714		mg/L		97	90 - 110	0	20

Lab Sample ID: LLCS 860-47952/5
Matrix: Water
Analysis Batch: 47952

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	0.5642		mg/L		113	50 - 150
Chloride	0.500	0.5482		mg/L		110	50 - 150
Fluoride	0.500	0.5051		mg/L		101	50 - 150
Sulfate	0.500	0.5624		mg/L		112	50 - 150

Lab Sample ID: MB 860-47953/3
Matrix: Water
Analysis Batch: 47953

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			04/07/22 12:34	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/07/22 12:34	1

Lab Sample ID: LCS 860-47953/6
Matrix: Water
Analysis Batch: 47953

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	9.515		mg/L		95	80 - 120
Nitrite as N	5.00	4.920		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-47953/7
Matrix: Water
Analysis Batch: 47953

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	9.540		mg/L		95	80 - 120	0	20
Nitrite as N	5.00	4.936		mg/L		99	80 - 120	0	20

Lab Sample ID: LLCS 860-47953/4
Matrix: Water
Analysis Batch: 47953

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	0.1355		mg/L		136	50 - 150
Nitrite as N	0.100	0.1007		mg/L		101	50 - 150

QC Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-48096/1-A
Matrix: Water
Analysis Batch: 48209

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 48096

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293	mg/L		04/08/22 09:00	04/08/22 12:49	1
Magnesium	<0.0500	U	0.200	0.0500	mg/L		04/08/22 09:00	04/08/22 12:49	1
Potassium	<0.107	U	0.500	0.107	mg/L		04/08/22 09:00	04/08/22 12:49	1
Sodium	<0.0667	U	0.500	0.0667	mg/L		04/08/22 09:00	04/08/22 12:49	1
SiO2	<0.0781	U	1.07	0.0781	mg/L		04/08/22 09:00	04/08/22 12:49	1

Lab Sample ID: LCS 860-48096/2-A
Matrix: Water
Analysis Batch: 48209

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 48096

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			25.0	25.14		mg/L		101	85 - 115		
Magnesium			25.0	24.66		mg/L		99	85 - 115		
Potassium			10.0	10.01		mg/L		100	85 - 115		
Sodium			25.0	24.73		mg/L		99	85 - 115		
SiO2			21.4	21.62		mg/L		101	85 - 115		

Lab Sample ID: LCSD 860-48096/3-A
Matrix: Water
Analysis Batch: 48209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 48096

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium			25.0	25.12		mg/L		100	85 - 115	0	20
Magnesium			25.0	24.66		mg/L		99	85 - 115	0	20
Potassium			10.0	9.975		mg/L		100	85 - 115	0	20
Sodium			25.0	24.71		mg/L		99	85 - 115	0	20
SiO2			21.4	21.63		mg/L		101	85 - 115	0	20

Lab Sample ID: 880-13433-1 MS
Matrix: Water
Analysis Batch: 48209

Client Sample ID: Levey Well
Prep Type: Total Recoverable
Prep Batch: 48096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	248	E	25.0	269.2	E 4	mg/L		83	70 - 130		
Magnesium	50.3		25.0	74.23		mg/L		96	70 - 130		
Potassium	3.90		10.0	14.38		mg/L		105	70 - 130		
Sodium	76.6		25.0	100.9		mg/L		97	70 - 130		
SiO2	63.8		21.4	85.82		mg/L		103	70 - 130		

Lab Sample ID: 880-13433-1 MSD
Matrix: Water
Analysis Batch: 48209

Client Sample ID: Levey Well
Prep Type: Total Recoverable
Prep Batch: 48096

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	248	E	25.0	269.6	E 4	mg/L		85	70 - 130	0	20
Magnesium	50.3		25.0	74.20		mg/L		96	70 - 130	0	20
Potassium	3.90		10.0	14.35		mg/L		105	70 - 130	0	20
Sodium	76.6		25.0	100.6		mg/L		96	70 - 130	0	20
SiO2	63.8		21.4	85.71		mg/L		102	70 - 130	0	20

QC Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-48108/3
Matrix: Water
Analysis Batch: 48108

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			04/07/22 17:06	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/07/22 17:06	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/07/22 17:06	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			04/07/22 17:06	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			04/07/22 17:06	1

Lab Sample ID: LCS 860-48108/4
Matrix: Water
Analysis Batch: 48108

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			250	264.4		mg/L		106	85 - 115		

Lab Sample ID: LCSD 860-48108/5
Matrix: Water
Analysis Batch: 48108

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	269.1		mg/L		108	85 - 115	2	20

Lab Sample ID: 880-13433-1 DU
Matrix: Water
Analysis Batch: 48108

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

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	619			630.3		mg/L				2	20
Bicarbonate Alkalinity as CaCO3	619			630.3		mg/L				2	20
Carbonate Alkalinity as CaCO3	<4.00	U		<4.00	U	mg/L				NC	20
Hydroxide Alkalinity	<4.00	U		<4.00	U	mg/L				NC	20
Phenolphthalein Alkalinity	<4.00	U		<4.00	U	mg/L				NC	20

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

Lab Sample ID: MB 860-48052/1
Matrix: Water
Analysis Batch: 48052

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			04/07/22 17:11	1

Lab Sample ID: LCS 860-48052/2
Matrix: Water
Analysis Batch: 48052

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	1182		mg/L		118	80 - 120		

QC Sample Results

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

Job ID: 880-13433-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-48052/3
Matrix: Water
Analysis Batch: 48052

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	1154		mg/L		115	80 - 120	2	10

QC Association Summary

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

Job ID: 880-13433-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 47998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13433-1	Levey Well	Total/NA	Water	8260C	
MB 860-47998/9	Method Blank	Total/NA	Water	8260C	
LCS 860-47998/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-47998/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 47952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13433-1	Levey Well	Total/NA	Water	300.0	
MB 860-47952/3	Method Blank	Total/NA	Water	300.0	
LCS 860-47952/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-47952/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-47952/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 47953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13433-1	Levey Well	Total/NA	Water	300.0	
MB 860-47953/3	Method Blank	Total/NA	Water	300.0	
LCS 860-47953/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-47953/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-47953/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 48096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13433-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-48096/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-48096/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-48096/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
880-13433-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-13433-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 48209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13433-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	48096
880-13433-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	48096
MB 860-48096/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	48096
LCS 860-48096/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	48096
LCSD 860-48096/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	48096
880-13433-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	48096
880-13433-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	48096

General Chemistry

Analysis Batch: 48052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13433-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-48052/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-48052/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-48052/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

QC Association Summary

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

Job ID: 880-13433-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 48108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13433-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-48108/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-48108/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-48108/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-13433-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 48169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13433-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 48573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13433-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-13433-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/06/22 08:50
Date Received: 04/06/22 14:45

Lab Sample ID: 880-13433-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	47998	04/07/22 23:53	A1S	XEN STF
Total/NA	Analysis	300.0		1	47952	04/07/22 18:44	ANP	XEN STF
Total/NA	Analysis	300.0		1	47953	04/07/22 18:44	ANP	XEN STF
Total Recoverable	Prep	200.7			48096	04/08/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	48209	04/08/22 13:00	AV	XEN STF
Total Recoverable	Prep	200.7			48096	04/08/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	48209	04/08/22 13:18	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	48573	04/12/22 16:28	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	48108	04/07/22 17:36	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	48052	04/07/22 17:11	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	48169	04/08/22 12:23	ALL	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 880-13433-1
Project/Site: Levey Well Hobb NM - 03B1417001
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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
8260C		Water	Total BTEX
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 Hobb NM - 03B1417001

Job ID: 880-13433-1
SDG: Hobbs NM

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-13433-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13433-1	Levey Well	Water	04/06/22 08:50	04/06/22 14:45

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Chain of Custody

XENCO LABORATORIES

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) www.xenco.com Page 1 of 1

Work Order No: 13433

Project Manager:	Beaux Jennings	Bill to (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	210-219-8858 Email:	bjennings@ensolum.com	

Work Order Comments

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.3/3.8	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS
Levey Well	W	4.6.22	0860	-	7	X	X	X	X	X	X

NFE AAM 4.6.22

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

24 hr

880-13433 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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	Leticia Rodriguez	4/6/22 14:55	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Received by OCD: 11/8/2023 2:18:22 PM
Released to Imaging: 3/20/2024 4:29:15 PM

4/12/2022

CUSTODY SEAL

Date 4.6.2022

Signature

Thermo SCIENTIFIC

90009

Loc: 880
13433

13433

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-13433-1
SDG Number: Hobbs NM

Login Number: 13433
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: 880-13433-1
SDG Number: Hobbs NM

Login Number: 13433
List Number: 2
Creator: Milone, Jeancarlo

List Source: Eurofins Houston
List Creation: 04/07/22 01:02 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-13434-1
Client Project/Site: South Hobbs - 03B1417002
Sampling Event: South Hobbs

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
4/12/2022 9:16:14 AM

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

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-13434-1

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Eurofins Midland
4/12/2022

Definitions/Glossary

Client: Ensolum Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13434-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-13434-1

Receipt
The samples were received on 4/6/2022 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (880-13434-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike(MS) for analytical batch 860-47998 exceeded control limits for the following analyte(s): Dichloro difluoromethane, Note that this analyte is a known poor performer when analyzed using this method.

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

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

HPLC/IC
Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-47953 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: Ensolum
Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13434-1
Date Collected: 04/06/22 10:15
Matrix: Water
Date Received: 04/06/22 14:45

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/07/22 22:52	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/07/22 22:52	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/07/22 22:52	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/07/22 22:52	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/07/22 22:52	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/07/22 22:52	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/07/22 22:52	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/07/22 22:52	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/07/22 22:52	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/07/22 22:52	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/07/22 22:52	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/07/22 22:52	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/07/22 22:52	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/07/22 22:52	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/07/22 22:52	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/07/22 22:52	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/07/22 22:52	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/07/22 22:52	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/07/22 22:52	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/07/22 22:52	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/07/22 22:52	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/07/22 22:52	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/07/22 22:52	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/07/22 22:52	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/07/22 22:52	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/07/22 22:52	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/07/22 22:52	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/07/22 22:52	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/07/22 22:52	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/07/22 22:52	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/07/22 22:52	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 22:52	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/07/22 22:52	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/07/22 22:52	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/07/22 22:52	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/07/22 22:52	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/07/22 22:52	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/07/22 22:52	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/07/22 22:52	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/07/22 22:52	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/07/22 22:52	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/07/22 22:52	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/07/22 22:52	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/07/22 22:52	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/07/22 22:52	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/07/22 22:52	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/07/22 22:52	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/07/22 22:52	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/07/22 22:52	1

Client Sample Results

Client: Ensolum
Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13434-1
Date Collected: 04/06/22 10:15
Matrix: Water
Date Received: 04/06/22 14:45

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/07/22 22:52	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 22:52	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 22:52	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/07/22 22:52	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/07/22 22:52	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/07/22 22:52	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/07/22 22:52	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/07/22 22:52	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/07/22 22:52	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/07/22 22:52	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/07/22 22:52	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/07/22 22:52	1
Total BTEX	<0.000214	U	0.0100	0.000214	mg/L			04/07/22 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*74 - 124*		*04/07/22 22:52*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*04/07/22 22:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*63 - 144*		*04/07/22 22:52*	*1*
Toluene-d8 (Surr)	*104*		*80 - 117*		*04/07/22 22:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.926	U	4.69	0.926	mg/L			04/07/22 07:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.926	U	4.69	0.926	mg/L		04/07/22 14:47	04/07/22 17:01	1
Diesel Range Organics (Over C10-C28)	<0.926	U	4.69	0.926	mg/L		04/07/22 14:47	04/07/22 17:01	1
OII Range Organics (Over C28-C36)	<0.894	U	4.69	0.894	mg/L		04/07/22 14:47	04/07/22 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 135*	*04/07/22 14:47*	*04/07/22 17:01*	*1*
o-Terphenyl	*111*		*70 - 135*	*04/07/22 14:47*	*04/07/22 17:01*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		0.500	0.200	mg/L			04/07/22 19:41	1
Nitrate as N	**0.186**		0.100	0.0391	mg/L			04/07/22 19:41	1
Fluoride	**0.677**		0.500	0.100	mg/L			04/07/22 19:41	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/07/22 19:41	1
Sulfate	**39.7**		0.500	0.109	mg/L			04/07/22 19:41	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**262**		4.00	4.00	mg/L			04/07/22 17:56	1
Bicarbonate Alkalinity as CaCO3	**262**		4.00	4.00	mg/L			04/07/22 17:56	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/07/22 17:56	1
Carbon dioxide	**272**				mg/L			04/12/22 08:34	1
Carbon Dioxide, Free	**41.6**				mg/L			04/12/22 08:34	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13434-1
Date Collected: 04/06/22 10:15
Matrix: Water
Date Received: 04/06/22 14:45

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.1**	**HF**			SU			04/08/22 12:23	1
Temperature	**18.1**	**HF**			Celsius			04/08/22 12:23	1
Sulfide	<0.495	U	5.00	0.495	mg/L			04/08/22 16:34	1

Client Sample ID: MW-2
Lab Sample ID: 880-13434-2
Date Collected: 04/06/22 11:15
Matrix: Water
Date Received: 04/06/22 14:45

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0303**		0.00100	0.000214	mg/L			04/07/22 23:12	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/07/22 23:12	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/07/22 23:12	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/07/22 23:12	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/07/22 23:12	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/07/22 23:12	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/07/22 23:12	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/07/22 23:12	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/07/22 23:12	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/07/22 23:12	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/07/22 23:12	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/07/22 23:12	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/07/22 23:12	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/07/22 23:12	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/07/22 23:12	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/07/22 23:12	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/07/22 23:12	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/07/22 23:12	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/07/22 23:12	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/07/22 23:12	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/07/22 23:12	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/07/22 23:12	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/07/22 23:12	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/07/22 23:12	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/07/22 23:12	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/07/22 23:12	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/07/22 23:12	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/07/22 23:12	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/07/22 23:12	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/07/22 23:12	1
Ethylbenzene	**0.0140**		0.00100	0.000515	mg/L			04/07/22 23:12	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 23:12	1
Isopropylbenzene	**0.00534**		0.00100	0.000161	mg/L			04/07/22 23:12	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/07/22 23:12	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/07/22 23:12	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/07/22 23:12	1
n-Butylbenzene	**0.000939**	**J**	0.00100	0.000286	mg/L			04/07/22 23:12	1
N-Propylbenzene	**0.00110**		0.00100	0.000179	mg/L			04/07/22 23:12	1
o-Xylene	**0.0228**		0.00100	0.000192	mg/L			04/07/22 23:12	1
p-Cymene (p-Isopropyltoluene)	**0.00128**		0.00100	0.000233	mg/L			04/07/22 23:12	1

Client Sample Results

Client: Ensolum
Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2
Lab Sample ID: 880-13434-2
Date Collected: 04/06/22 11:15
Matrix: Water
Date Received: 04/06/22 14:45

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**0.00104**		0.00100	0.000199	mg/L			04/07/22 23:12	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/07/22 23:12	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/07/22 23:12	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/07/22 23:12	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/07/22 23:12	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/07/22 23:12	1
Toluene	**0.0170**		0.00100	0.000500	mg/L			04/07/22 23:12	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/07/22 23:12	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/07/22 23:12	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 23:12	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 23:12	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/07/22 23:12	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/07/22 23:12	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/07/22 23:12	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/07/22 23:12	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/07/22 23:12	1
1,2,4-Trimethylbenzene	**0.0517**		0.00100	0.000252	mg/L			04/07/22 23:12	1
1,3,5-Trimethylbenzene	**0.0136**		0.00100	0.000279	mg/L			04/07/22 23:12	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/07/22 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*		*04/07/22 23:12*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*04/07/22 23:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*63 - 144*		*04/07/22 23:12*	*1*
Toluene-d8 (Surr)	*102*		*80 - 117*		*04/07/22 23:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	**0.191**		0.0500	0.00165	mg/L			04/07/22 23:33	5
Xylenes, Total	**0.218**		0.0500	0.00165	mg/L			04/07/22 23:33	5
Total BTEX	**0.290**		0.0500	0.00107	mg/L			04/07/22 23:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*74 - 124*		*04/07/22 23:33*	*5*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*04/07/22 23:33*	*5*
1,2-Dichloroethane-d4 (Surr)	*116*		*63 - 144*		*04/07/22 23:33*	*5*
Toluene-d8 (Surr)	*102*		*80 - 117*		*04/07/22 23:33*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.00**	**J**	4.75	0.938	mg/L			04/07/22 07:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.00**	**J**	4.75	0.938	mg/L		04/07/22 14:47	04/07/22 17:20	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938	mg/L		04/07/22 14:47	04/07/22 17:20	1
Oil Range Organics (Over C28-C36)	<0.905	U	4.75	0.905	mg/L		04/07/22 14:47	04/07/22 17:20	1

Client Sample Results

Client: Ensolum
Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2
Lab Sample ID: 880-13434-2
Date Collected: 04/06/22 11:15
Matrix: Water
Date Received: 04/06/22 14:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 135*	*04/07/22 14:47*	*04/07/22 17:20*	*1*
o-Terphenyl	*104*		*70 - 135*	*04/07/22 14:47*	*04/07/22 17:20*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		0.500	0.200	mg/L			04/07/22 20:04	1
Nitrate as N	**0.619**		0.100	0.0391	mg/L			04/07/22 20:04	1
Fluoride	**0.175**	**J**	0.500	0.100	mg/L			04/07/22 20:04	1
Nitrite as N	**1.60**		0.100	0.0293	mg/L			04/07/22 20:04	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**111**		50.0	10.9	mg/L			04/07/22 20:15	100

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**1360**		4.00	4.00	mg/L			04/07/22 18:12	1
Bicarbonate Alkalinity as CaCO3	**1360**		4.00	4.00	mg/L			04/07/22 18:12	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/07/22 18:12	1
Carbon dioxide	**2920**				mg/L			04/12/22 08:34	1
Carbon Dioxide, Free	**1720**				mg/L			04/12/22 08:34	1
pH	**6.2**	**HF**			SU			04/08/22 12:23	1
Temperature	**18.1**	**HF**			Celsius			04/08/22 12:23	1
Sulfide	<0.495	U	5.00	0.495	mg/L			04/08/22 16:34	1

Surrogate Summary

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

Job ID: 880-13434-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(74-124)	(75-131)	(63-144)	(80-117)
860-23970-C-2 MS	Matrix Spike	103	105	112	102
880-13434-1	MW-1	107	103	119	104
880-13434-2	MW-2	103	102	119	102
880-13434-2 - DL	MW-2	104	103	116	102
LCS 860-47998/3	Lab Control Sample	102	106	115	101
LCSD 860-47998/4	Lab Control Sample Dup	101	106	112	101
MB 860-47998/9	Method Blank	107	102	115	103

Surrogate Legend

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

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
880-13434-1	MW-1	90	111
880-13434-2	MW-2	82	104
LCS 860-48012/2-A	Lab Control Sample	110	110
LCSD 860-48012/3-A	Lab Control Sample Dup	110	110
MB 860-48012/1-A	Method Blank	86	109

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 880-13434-1

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

Lab Sample ID: MB 860-47998/9
Matrix: Water
Analysis Batch: 47998

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/07/22 21:30	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/07/22 21:30	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/07/22 21:30	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/07/22 21:30	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/07/22 21:30	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/07/22 21:30	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/07/22 21:30	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/07/22 21:30	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/07/22 21:30	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/07/22 21:30	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/07/22 21:30	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/07/22 21:30	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/07/22 21:30	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/07/22 21:30	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/07/22 21:30	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/07/22 21:30	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/07/22 21:30	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/07/22 21:30	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/07/22 21:30	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/07/22 21:30	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/07/22 21:30	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/07/22 21:30	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/07/22 21:30	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/07/22 21:30	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/07/22 21:30	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/07/22 21:30	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/07/22 21:30	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/07/22 21:30	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/07/22 21:30	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/07/22 21:30	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/07/22 21:30	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 21:30	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/07/22 21:30	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/07/22 21:30	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/07/22 21:30	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/07/22 21:30	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/07/22 21:30	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/07/22 21:30	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/07/22 21:30	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/07/22 21:30	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/07/22 21:30	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/07/22 21:30	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/07/22 21:30	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/07/22 21:30	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/07/22 21:30	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/07/22 21:30	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/07/22 21:30	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/07/22 21:30	1

QC Sample Results

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

Job ID: 880-13434-1

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

Lab Sample ID: MB 860-47998/9
Matrix: Water
Analysis Batch: 47998

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/07/22 21:30	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/07/22 21:30	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 21:30	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/07/22 21:30	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/07/22 21:30	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/07/22 21:30	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/07/22 21:30	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/07/22 21:30	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/07/22 21:30	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/07/22 21:30	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/07/22 21:30	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/07/22 21:30	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/07/22 21:30	1
Total BTEX	<0.000214	U	0.0100	0.000214	mg/L			04/07/22 21:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*74 - 124*		*04/07/22 21:30*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*04/07/22 21:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*63 - 144*		*04/07/22 21:30*	*1*
Toluene-d8 (Surr)	*103*		*80 - 117*		*04/07/22 21:30*	*1*

Lab Sample ID: LCS 860-47998/3
Matrix: Water
Analysis Batch: 47998

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	0.05017		mg/L		100	66 - 142
Bromobenzene	0.0500	0.05039		mg/L		101	75 - 125
Bromochloromethane	0.0500	0.05151		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05048		mg/L		101	75 - 125
Bromoform	0.0500	0.04239		mg/L		85	75 - 125
Bromomethane	0.0500	0.06000		mg/L		120	60 - 140
2-Butanone	0.250	0.2670		mg/L		107	60 - 140
Carbon tetrachloride	0.0500	0.05055		mg/L		101	62 - 125
Chlorobenzene	0.0500	0.04963		mg/L		99	60 - 133
Chloroethane	0.0500	0.05691		mg/L		114	60 - 140
Chloroform	0.0500	0.05516		mg/L		110	70 - 130
Chloromethane	0.0500	0.05216		mg/L		104	60 - 140
2-Chlorotoluene	0.0500	0.05252		mg/L		105	73 - 125
4-Chlorotoluene	0.0500	0.05242		mg/L		105	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05435		mg/L		109	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05097		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.04539		mg/L		91	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04313		mg/L		86	59 - 125
1,2-Dibromoethane	0.0500	0.04969		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.05133		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05028		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05065		mg/L		101	75 - 125

QC Sample Results

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

Job ID: 880-13434-1

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

Lab Sample ID: LCS 860-47998/3
Matrix: Water
Analysis Batch: 47998

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.04303		mg/L		86	70 - 130
1,1-Dichloroethane	0.0500	0.05419		mg/L		108	72 - 125
1,2-Dichloroethane	0.0500	0.05720		mg/L		114	68 - 127
1,1-Dichloroethene	0.0500	0.05058		mg/L		101	59 - 172
1,2-Dichloropropane	0.0500	0.05187		mg/L		104	74 - 125
1,3-Dichloropropane	0.0500	0.05170		mg/L		103	75 - 125
2,2-Dichloropropane	0.0500	0.05131		mg/L		103	75 - 125
1,1-Dichloropropene	0.0500	0.05265		mg/L		105	75 - 125
Ethylbenzene	0.0500	0.05092		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.04996		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.05039		mg/L		101	75 - 125
Methylene Chloride	0.0500	0.05268		mg/L		105	75 - 125
m,p-Xylenes	0.0500	0.05049		mg/L		101	75 - 125
MTBE	0.0500	0.05512		mg/L		110	65 - 135
Naphthalene	0.0500	0.05172		mg/L		103	70 - 130
n-Butylbenzene	0.0500	0.05231		mg/L		105	75 - 125
N-Propylbenzene	0.0500	0.05167		mg/L		103	75 - 125
o-Xylene	0.0500	0.05115		mg/L		102	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04986		mg/L		100	75 - 125
sec-Butylbenzene	0.0500	0.05099		mg/L		102	75 - 125
Styrene	0.0500	0.05008		mg/L		100	75 - 125
tert-Butylbenzene	0.0500	0.05002		mg/L		100	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04782		mg/L		96	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05171		mg/L		103	74 - 125
Tetrachloroethene	0.0500	0.04785		mg/L		96	71 - 125
Toluene	0.0500	0.04945		mg/L		99	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05312		mg/L		106	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05062		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05152		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05105		mg/L		102	75 - 135
1,1,1-Trichloroethane	0.0500	0.05280		mg/L		106	75 - 125
1,1,2-Trichloroethane	0.0500	0.05128		mg/L		103	75 - 127
Trichloroethene	0.0500	0.04916		mg/L		98	62 - 137
Trichlorofluoromethane	0.0500	0.05360		mg/L		107	60 - 140
1,2,3-Trichloropropane	0.0500	0.05438		mg/L		109	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05170		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05061		mg/L		101	60 - 140
Vinyl chloride	0.0500	0.05213		mg/L		104	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*
Dibromofluoromethane (Surr)	*106*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*115*		*63 - 144*
Toluene-d8 (Surr)	*101*		*80 - 117*

QC Sample Results

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

Job ID: 880-13434-1

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

Lab Sample ID: LCSD 860-47998/4
Matrix: Water
Analysis Batch: 47998

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	0.04866		mg/L		97	66 - 142	3	25
Bromobenzene			0.0500	0.04955		mg/L		99	75 - 125	2	25
Bromochloromethane			0.0500	0.05105		mg/L		102	60 - 140	1	25
Bromodichloromethane			0.0500	0.04922		mg/L		98	75 - 125	3	25
Bromoform			0.0500	0.04103		mg/L		82	75 - 125	3	25
Bromomethane			0.0500	0.05659		mg/L		113	60 - 140	6	25
2-Butanone			0.250	0.2489		mg/L		100	60 - 140	7	25
Carbon tetrachloride			0.0500	0.04906		mg/L		98	62 - 125	3	25
Chlorobenzene			0.0500	0.04883		mg/L		98	60 - 133	2	25
Chloroethane			0.0500	0.05427		mg/L		109	60 - 140	5	25
Chloroform			0.0500	0.05380		mg/L		108	70 - 130	2	25
Chloromethane			0.0500	0.05015		mg/L		100	60 - 140	4	25
2-Chlorotoluene			0.0500	0.05078		mg/L		102	73 - 125	3	25
4-Chlorotoluene			0.0500	0.05136		mg/L		103	74 - 125	2	25
cis-1,2-Dichloroethene			0.0500	0.05277		mg/L		106	75 - 125	3	25
cis-1,3-Dichloropropene			0.0500	0.04940		mg/L		99	74 - 125	3	25
Dibromochloromethane			0.0500	0.04477		mg/L		90	73 - 125	1	25
1,2-Dibromo-3-Chloropropane			0.0500	0.04284		mg/L		86	59 - 125	1	25
1,2-Dibromoethane			0.0500	0.04858		mg/L		97	73 - 125	2	25
1,2-Dichlorobenzene			0.0500	0.05028		mg/L		101	75 - 125	2	25
1,3-Dichlorobenzene			0.0500	0.04946		mg/L		99	75 - 125	2	25
1,4-Dichlorobenzene			0.0500	0.04982		mg/L		100	75 - 125	2	25
Dichlorodifluoromethane			0.0500	0.04100		mg/L		82	70 - 130	5	25
1,1-Dichloroethane			0.0500	0.05328		mg/L		107	72 - 125	2	25
1,2-Dichloroethane			0.0500	0.05521		mg/L		110	68 - 127	4	25
1,1-Dichloroethene			0.0500	0.04884		mg/L		98	59 - 172	4	25
1,2-Dichloropropane			0.0500	0.05047		mg/L		101	74 - 125	3	25
1,3-Dichloropropane			0.0500	0.05019		mg/L		100	75 - 125	3	25
2,2-Dichloropropane			0.0500	0.04931		mg/L		99	75 - 125	4	25
1,1-Dichloropropene			0.0500	0.05037		mg/L		101	75 - 125	4	25
Ethylbenzene			0.0500	0.04934		mg/L		99	75 - 125	3	25
Hexachlorobutadiene			0.0500	0.04973		mg/L		99	75 - 125	0	25
Isopropylbenzene			0.0500	0.04865		mg/L		97	75 - 125	4	25
Methylene Chloride			0.0500	0.05102		mg/L		102	75 - 125	3	25
m,p-Xylenes			0.0500	0.04927		mg/L		99	75 - 125	2	25
MTBE			0.0500	0.05360		mg/L		107	65 - 135	3	25
Naphthalene			0.0500	0.05258		mg/L		105	70 - 130	2	25
n-Butylbenzene			0.0500	0.05104		mg/L		102	75 - 125	2	25
N-Propylbenzene			0.0500	0.05045		mg/L		101	75 - 125	2	25
o-Xylene			0.0500	0.05018		mg/L		100	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)			0.0500	0.04878		mg/L		98	75 - 125	2	25
sec-Butylbenzene			0.0500	0.04984		mg/L		100	75 - 125	2	25
Styrene			0.0500	0.04896		mg/L		98	75 - 125	2	25
tert-Butylbenzene			0.0500	0.04900		mg/L		98	75 - 125	2	25
1,1,1,2-Tetrachloroethane			0.0500	0.04738		mg/L		95	72 - 125	1	25
1,1,2,2-Tetrachloroethane			0.0500	0.05055		mg/L		101	74 - 125	2	25
Tetrachloroethene			0.0500	0.04617		mg/L		92	71 - 125	4	25
Toluene			0.0500	0.04806		mg/L		96	59 - 139	3	25

QC Sample Results

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

Job ID: 880-13434-1

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

Lab Sample ID: LCSD 860-47998/4
Matrix: Water
Analysis Batch: 47998

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	0.05131		mg/L		103	75 - 125	3	25
trans-1,3-Dichloropropene			0.0500	0.04922		mg/L		98	66 - 125	3	25
1,2,3-Trichlorobenzene			0.0500	0.05269		mg/L		105	75 - 137	2	25
1,2,4-Trichlorobenzene			0.0500	0.05115		mg/L		102	75 - 135	0	25
1,1,1-Trichloroethane			0.0500	0.05113		mg/L		102	75 - 125	3	25
1,1,2-Trichloroethane			0.0500	0.05034		mg/L		101	75 - 127	2	25
Trichloroethene			0.0500	0.04780		mg/L		96	62 - 137	3	25
Trichlorofluoromethane			0.0500	0.05165		mg/L		103	60 - 140	4	25
1,2,3-Trichloropropane			0.0500	0.04708		mg/L		94	75 - 125	14	25
1,2,4-Trimethylbenzene			0.0500	0.05094		mg/L		102	75 - 125	1	25
1,3,5-Trimethylbenzene			0.0500	0.04953		mg/L		99	60 - 140	2	25
Vinyl chloride			0.0500	0.05028		mg/L		101	60 - 140	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*106*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*112*		*63 - 144*
Toluene-d8 (Surr)	*101*		*80 - 117*

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

Lab Sample ID: MB 860-48012/1-A
Matrix: Water
Analysis Batch: 47967

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48012

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		04/07/22 14:47	04/07/22 16:41	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		04/07/22 14:47	04/07/22 16:41	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		04/07/22 14:47	04/07/22 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 135*	*04/07/22 14:47*	*04/07/22 16:41*	*1*
o-Terphenyl	*109*		*70 - 135*	*04/07/22 14:47*	*04/07/22 16:41*	*1*

Lab Sample ID: LCS 860-48012/2-A
Matrix: Water
Analysis Batch: 47967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48012

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			101	94.91		mg/L		94	70 - 135		
Diesel Range Organics (Over C10-C28)			100	92.50		mg/L		92	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 135*
o-Terphenyl	*110*		*70 - 135*

QC Sample Results

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

Job ID: 880-13434-1

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

Lab Sample ID: LCSD 860-48012/3-A
Matrix: Water
Analysis Batch: 47967

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48012

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			101	101.4		mg/L		101	70 - 135	7	35
Diesel Range Organics (Over C10-C28)			100	98.43		mg/L		98	70 - 135	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 135*
o-Terphenyl	*110*		*70 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-47952/3
Matrix: Water
Analysis Batch: 47952

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			04/07/22 12:34	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/07/22 12:34	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/07/22 12:34	1

Lab Sample ID: LCS 860-47952/6
Matrix: Water
Analysis Batch: 47952

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.556		mg/L		96	90 - 110		
Fluoride			10.0	10.31		mg/L		103	90 - 110		
Sulfate			10.0	9.728		mg/L		97	90 - 110		

Lab Sample ID: LCSD 860-47952/7
Matrix: Water
Analysis Batch: 47952

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.432		mg/L		94	90 - 110	1	20
Fluoride			10.0	10.33		mg/L		103	90 - 110	0	20
Sulfate			10.0	9.714		mg/L		97	90 - 110	0	20

Lab Sample ID: LLCS 860-47952/5
Matrix: Water
Analysis Batch: 47952

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.5482		mg/L		110	50 - 150		
Fluoride			0.500	0.5051		mg/L		101	50 - 150		
Sulfate			0.500	0.5624		mg/L		112	50 - 150		

QC Sample Results

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

Job ID: 880-13434-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-47953/3
Matrix: Water
Analysis Batch: 47953

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			04/07/22 12:34	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/07/22 12:34	1

Lab Sample ID: LCS 860-47953/6
Matrix: Water
Analysis Batch: 47953

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	9.515		mg/L		95	80 - 120
Nitrite as N	5.00	4.920		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-47953/7
Matrix: Water
Analysis Batch: 47953

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	9.540		mg/L		95	80 - 120	0	20
Nitrite as N	5.00	4.936		mg/L		99	80 - 120	0	20

Lab Sample ID: LLCS 860-47953/4
Matrix: Water
Analysis Batch: 47953

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	0.1355		mg/L		136	50 - 150
Nitrite as N	0.100	0.1007		mg/L		101	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-48108/3
Matrix: Water
Analysis Batch: 48108

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			04/07/22 17:06	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/07/22 17:06	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/07/22 17:06	1

Lab Sample ID: LCS 860-48108/4
Matrix: Water
Analysis Batch: 48108

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	264.4		mg/L		106	85 - 115

QC Sample Results

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

Job ID: 880-13434-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-48108/5
Matrix: Water
Analysis Batch: 48108

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	269.1		mg/L		108	85 - 115	2	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-48200/1
Matrix: Water
Analysis Batch: 48200

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495	mg/L			04/08/22 16:34	1

Lab Sample ID: LCS 860-48200/2
Matrix: Water
Analysis Batch: 48200

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			50.0	44.80		mg/L		90	80 - 120		

Lab Sample ID: LCSD 860-48200/3
Matrix: Water
Analysis Batch: 48200

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			50.0	45.20		mg/L		90	80 - 120	1	20

Lab Sample ID: 880-13434-1 MS
Matrix: Water
Analysis Batch: 48200

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.495	U	50.0	46.20		mg/L		92	80 - 120		

Lab Sample ID: 880-13434-1 MSD
Matrix: Water
Analysis Batch: 48200

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	45.80		mg/L		92	80 - 120	1	20

QC Association Summary

Client: Ensolum
Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 47998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	8260C	
880-13434-2	MW-2	Total/NA	Water	8260C	
880-13434-2 - DL	MW-2	Total/NA	Water	8260C	
MB 860-47998/9	Method Blank	Total/NA	Water	8260C	
LCS 860-47998/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-47998/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 47915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	8015 NM	
880-13434-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 47967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	8015B NM	48012
880-13434-2	MW-2	Total/NA	Water	8015B NM	48012
MB 860-48012/1-A	Method Blank	Total/NA	Water	8015B NM	48012
LCS 860-48012/2-A	Lab Control Sample	Total/NA	Water	8015B NM	48012
LCSD 860-48012/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	48012

Prep Batch: 48012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-13434-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-48012/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-48012/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-48012/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 47952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	300.0	
880-13434-2	MW-2	Total/NA	Water	300.0	
880-13434-2 - DL	MW-2	Total/NA	Water	300.0	
MB 860-47952/3	Method Blank	Total/NA	Water	300.0	
LCS 860-47952/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-47952/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-47952/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 47953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	300.0	
880-13434-2	MW-2	Total/NA	Water	300.0	
MB 860-47953/3	Method Blank	Total/NA	Water	300.0	
LCS 860-47953/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-47953/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-47953/4	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Ensolum
Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

General Chemistry

Analysis Batch: 48108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	SM 2320B	
880-13434-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-48108/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-48108/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-48108/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 48169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-13434-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 48200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-13434-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-48200/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-48200/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-48200/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-13434-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-13434-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 48462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13434-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-13434-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum
Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13434-1
Date Collected: 04/06/22 10:15
Matrix: Water
Date Received: 04/06/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	47998	04/07/22 22:52	A1S	XEN STF
Total/NA	Analysis	8015 NM		1	47915	04/07/22 07:56	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			48012	04/07/22 14:47	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	47967	04/07/22 17:01	T1S	XEN STF
Total/NA	Analysis	300.0		1	47952	04/07/22 19:41	ANP	XEN STF
Total/NA	Analysis	300.0		1	47953	04/07/22 19:41	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	48108	04/07/22 17:56	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	48462	04/12/22 08:34	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	48169	04/08/22 12:23	ALL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	48200	04/08/22 16:34	YGG	XEN STF

Client Sample ID: MW-2
Lab Sample ID: 880-13434-2
Date Collected: 04/06/22 11:15
Matrix: Water
Date Received: 04/06/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	47998	04/07/22 23:12	A1S	XEN STF
Total/NA	Analysis	8260C	DL	5	47998	04/07/22 23:33	A1S	XEN STF
Total/NA	Analysis	8015 NM		1	47915	04/07/22 07:56	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			48012	04/07/22 14:47	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	47967	04/07/22 17:20	T1S	XEN STF
Total/NA	Analysis	300.0		1	47952	04/07/22 20:04	ANP	XEN STF
Total/NA	Analysis	300.0		1	47953	04/07/22 20:04	ANP	XEN STF
Total/NA	Analysis	300.0	DL	100	47952	04/07/22 20:15	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	48108	04/07/22 18:12	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	48462	04/12/22 08:34	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	48169	04/08/22 12:23	ALL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	48200	04/08/22 16:34	YGG	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
8260C		Water	Total BTEX
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum Job ID: 880-13434-1
Project/Site: South Hobbs - 03B1417002

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

Protocol References:

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

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

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

Laboratory References:

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

Sample Summary

Client: Ensolum

Job ID: 880-13434-1

Project/Site: South Hobbs - 03B1417002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13434-1	MW-1	Water	04/06/22 10:15	04/06/22 14:45
880-13434-2	MW-2	Water	04/06/22 11:15	04/06/22 14:45

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Chain of Custody

XENCO LABORATORIES

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) www.xenco.com Page 1 of 1

Work Order No: 13434

4/12/2022

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

Work Order Comments

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

Project Name.	South Hobbs
Project Number:	03B1417002
P.O. Number:	03B1417002
Sampler's Name:	Aaron Marquez

Turn Around
Routine ☐
Rush 24 Hr
Due Date

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.3/3.4	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals.	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Dissolved Carbon Dioxcide 4500 CO2 c	Dissovled Sulfide SW-846 #376.2	VOC SW-846 #8260	TPH EPA Method #8015	Chloride EPA Method #846 300	pH EPA SW-846 Method 150.1
MW-1	GW	4-6-22	1015	75'	7	X	X	X	X	X	X
MW-2	GW	4-6-22	1115	85'	7	X	X	X	X	X	X

Work Order Notes

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

Sample Comments

24 Hr

880-13434 Chain of Custody

Mike Adm 4-6-22

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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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		4/6/22 14:25	2		
			4		
			6		

Revised Date 051418 Rev 2018.1

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Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-13434-1

Login Number: 13434 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-13434-1

Login Number: 13434 **List Source: Eurofins Houston**
List Number: 2 **List Creation: 04/07/22 01:02 PM**
Creator: Milone, Jeancarlo

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-13674-1
Laboratory Sample Delivery Group: Hobbs NM
Client Project/Site: Levey Well Hobb NM - 03B1417001

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
4/19/2022 12:21:27 PM

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

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-13674-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum Job ID: 880-13674-1
Project/Site: Levey Well Hobb NM - 03B1417001 SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Case Narrative

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

Job ID: 880-13674-1
SDG: Hobbs NM

Job ID: 880-13674-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-13674-1

Receipt
The sample was received on 4/13/2022 2:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

GC/MS VOA
Method 8260C: The laboratory control sample (LCS/LCSD) associated with analytical batch 860-48775 was outside acceptance criteria for Bromoform. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance. Note, The associated samples were non detect for the analyte.

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 860-48771 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-48772 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Client Sample Results

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

Job ID: 880-13674-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/13/22 08:45
Date Received: 04/13/22 14:45

Lab Sample ID: 880-13674-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00148**		0.00100	0.000214	mg/L			04/14/22 19:12	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/14/22 19:12	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/14/22 19:12	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/14/22 19:12	1
Bromoform	<0.000630	U *-	0.00500	0.000630	mg/L			04/14/22 19:12	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/14/22 19:12	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/14/22 19:12	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/14/22 19:12	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/14/22 19:12	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/14/22 19:12	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/14/22 19:12	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/14/22 19:12	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/14/22 19:12	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/14/22 19:12	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/14/22 19:12	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/14/22 19:12	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/14/22 19:12	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/14/22 19:12	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/14/22 19:12	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/14/22 19:12	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/14/22 19:12	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/14/22 19:12	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/14/22 19:12	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/14/22 19:12	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/14/22 19:12	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/14/22 19:12	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/14/22 19:12	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/14/22 19:12	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/14/22 19:12	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/14/22 19:12	1
Ethylbenzene	**0.00559**		0.00100	0.000515	mg/L			04/14/22 19:12	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/14/22 19:12	1
Isopropylbenzene	**0.00269**		0.00100	0.000161	mg/L			04/14/22 19:12	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/14/22 19:12	1
m,p-Xylenes	**0.0211**		0.0100	0.000330	mg/L			04/14/22 19:12	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/14/22 19:12	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/14/22 19:12	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/14/22 19:12	1
N-Propylbenzene	**0.00153**		0.00100	0.000179	mg/L			04/14/22 19:12	1
o-Xylene	**0.00334**		0.00100	0.000192	mg/L			04/14/22 19:12	1
p-Cymene (p-Isopropyltoluene)	**0.000351**	**J**	0.00100	0.000233	mg/L			04/14/22 19:12	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/14/22 19:12	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/14/22 19:12	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/14/22 19:12	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/14/22 19:12	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/14/22 19:12	1
Tetrachloroethene	**0.000531**	**J**	0.00100	0.000500	mg/L			04/14/22 19:12	1
Toluene	**0.0113**		0.00100	0.000500	mg/L			04/14/22 19:12	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/14/22 19:12	1

Client Sample Results

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

Job ID: 880-13674-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/13/22 08:45
Date Received: 04/13/22 14:45

Lab Sample ID: 880-13674-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/14/22 19:12	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/14/22 19:12	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/14/22 19:12	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/14/22 19:12	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/14/22 19:12	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/14/22 19:12	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/14/22 19:12	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/14/22 19:12	1
1,2,4-Trimethylbenzene	**0.00856**		0.00100	0.000252	mg/L			04/14/22 19:12	1
1,3,5-Trimethylbenzene	**0.00264**		0.00100	0.000279	mg/L			04/14/22 19:12	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/14/22 19:12	1
Xylenes, Total	**0.0244**		0.0100	0.000330	mg/L			04/14/22 19:12	1
Total BTEX	**0.0428**		0.0100	0.000214	mg/L			04/14/22 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*74 - 124*		*04/14/22 19:12*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*04/14/22 19:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*63 - 144*		*04/14/22 19:12*	*1*
Toluene-d8 (Surr)	*103*		*80 - 117*		*04/14/22 19:12*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.400**	**J**	0.500	0.0711	mg/L			04/14/22 17:43	1
Nitrate as N	**0.111**		0.100	0.0391	mg/L			04/14/22 17:43	1
Chloride	**212**		0.500	0.200	mg/L			04/14/22 17:43	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/14/22 17:43	1
Fluoride	**0.773**		0.500	0.100	mg/L			04/14/22 17:43	1
Sulfate	**42.0**		0.500	0.109	mg/L			04/14/22 17:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**256**		10.0	1.47	mg/L		04/15/22 08:38	04/15/22 16:04	50
Magnesium	**51.3**		0.200	0.0500	mg/L		04/15/22 08:38	04/15/22 16:01	1
Potassium	**3.87**		0.500	0.107	mg/L		04/15/22 08:38	04/15/22 16:01	1
Sodium	**74.5**		0.500	0.0667	mg/L		04/15/22 08:38	04/15/22 16:01	1
SiO2	**63.5**		1.07	0.0781	mg/L		04/15/22 08:38	04/15/22 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.94**				%			04/19/22 11:30	1
Alkalinity	**650**		4.00	4.00	mg/L			04/15/22 14:32	1
Bicarbonate Alkalinity as CaCO3	**650**		4.00	4.00	mg/L			04/15/22 14:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/15/22 14:32	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			04/15/22 14:32	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			04/15/22 14:32	1
Total Dissolved Solids	**1200**		10.0	10.0	mg/L			04/14/22 16:54	1
pH	**6.6**	**HF**			SU			04/15/22 15:16	1
Temperature	**19.0**	**HF**			Celsius			04/15/22 15:16	1

Surrogate Summary

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

Job ID: 880-13674-1
SDG: Hobbs NM

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(74-124)	(75-131)	(63-144)	(80-117)
880-13516-A-4 MS	Matrix Spike	105	108	110	102
880-13516-A-4 MSD	Matrix Spike Duplicate	103	108	111	103
880-13674-1	Levey Well	104	106	115	103
LCS 860-48775/3	Lab Control Sample	106	108	110	103
LCSD 860-48775/4	Lab Control Sample Dup	105	108	110	102
MB 860-48775/10	Method Blank	107	106	112	104

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 Hobb NM - 03B1417001

Job ID: 880-13674-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-48775/10
Matrix: Water
Analysis Batch: 48775

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/14/22 14:37	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/14/22 14:37	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/14/22 14:37	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/14/22 14:37	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/14/22 14:37	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/14/22 14:37	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/14/22 14:37	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/14/22 14:37	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/14/22 14:37	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/14/22 14:37	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/14/22 14:37	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/14/22 14:37	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/14/22 14:37	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/14/22 14:37	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/14/22 14:37	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/14/22 14:37	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/14/22 14:37	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/14/22 14:37	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/14/22 14:37	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/14/22 14:37	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/14/22 14:37	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/14/22 14:37	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/14/22 14:37	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/14/22 14:37	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/14/22 14:37	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/14/22 14:37	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/14/22 14:37	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/14/22 14:37	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/14/22 14:37	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/14/22 14:37	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/14/22 14:37	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/14/22 14:37	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/14/22 14:37	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/14/22 14:37	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/14/22 14:37	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/14/22 14:37	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/14/22 14:37	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/14/22 14:37	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/14/22 14:37	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/14/22 14:37	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/14/22 14:37	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/14/22 14:37	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/14/22 14:37	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/14/22 14:37	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/14/22 14:37	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/14/22 14:37	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/14/22 14:37	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/14/22 14:37	1

QC Sample Results

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

Job ID: 880-13674-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-48775/10
Matrix: Water
Analysis Batch: 48775

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/14/22 14:37	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/14/22 14:37	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/14/22 14:37	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/14/22 14:37	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/14/22 14:37	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/14/22 14:37	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/14/22 14:37	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/14/22 14:37	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/14/22 14:37	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/14/22 14:37	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/14/22 14:37	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/14/22 14:37	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/14/22 14:37	1
Total BTEX	<0.000214	U	0.0100	0.000214	mg/L			04/14/22 14:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*74 - 124*		*04/14/22 14:37*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*04/14/22 14:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*63 - 144*		*04/14/22 14:37*	*1*
Toluene-d8 (Surr)	*104*		*80 - 117*		*04/14/22 14:37*	*1*

Lab Sample ID: LCS 860-48775/3
Matrix: Water
Analysis Batch: 48775

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	0.04988		mg/L		100	66 - 142
Bromobenzene	0.0500	0.04938		mg/L		99	75 - 125
Bromochloromethane	0.0500	0.04904		mg/L		98	60 - 140
Bromodichloromethane	0.0500	0.04754		mg/L		95	75 - 125
Bromoform	0.0500	0.03629	*-	mg/L		73	75 - 125
Bromomethane	0.0500	0.04424		mg/L		88	60 - 140
2-Butanone	0.250	0.2333		mg/L		93	60 - 140
Carbon tetrachloride	0.0500	0.05126		mg/L		103	62 - 125
Chlorobenzene	0.0500	0.04918		mg/L		98	60 - 133
Chloroethane	0.0500	0.05491		mg/L		110	60 - 140
Chloroform	0.0500	0.05481		mg/L		110	70 - 130
Chloromethane	0.0500	0.04708		mg/L		94	60 - 140
2-Chlorotoluene	0.0500	0.05364		mg/L		107	73 - 125
4-Chlorotoluene	0.0500	0.05373		mg/L		107	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05420		mg/L		108	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04880		mg/L		98	74 - 125
Dibromochloromethane	0.0500	0.04201		mg/L		84	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03569		mg/L		71	59 - 125
1,2-Dibromoethane	0.0500	0.04576		mg/L		92	73 - 125
1,2-Dichlorobenzene	0.0500	0.05030		mg/L		101	75 - 125
1,3-Dichlorobenzene	0.0500	0.05089		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.05023		mg/L		100	75 - 125

QC Sample Results

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

Job ID: 880-13674-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-48775/3
Matrix: Water
Analysis Batch: 48775

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.04493		mg/L		90	70 - 130
1,1-Dichloroethane	0.0500	0.05482		mg/L		110	72 - 125
1,2-Dichloroethane	0.0500	0.05246		mg/L		105	68 - 127
1,1-Dichloroethene	0.0500	0.05008		mg/L		100	59 - 172
1,2-Dichloropropane	0.0500	0.05106		mg/L		102	74 - 125
1,3-Dichloropropane	0.0500	0.04900		mg/L		98	75 - 125
2,2-Dichloropropane	0.0500	0.05339		mg/L		107	75 - 125
1,1-Dichloropropene	0.0500	0.05342		mg/L		107	75 - 125
Ethylbenzene	0.0500	0.05055		mg/L		101	75 - 125
Hexachlorobutadiene	0.0500	0.04834		mg/L		97	75 - 125
Isopropylbenzene	0.0500	0.04940		mg/L		99	75 - 125
Methylene Chloride	0.0500	0.05059		mg/L		101	75 - 125
m,p-Xylenes	0.0500	0.05015		mg/L		100	75 - 125
MTBE	0.0500	0.05011		mg/L		100	65 - 135
Naphthalene	0.0500	0.03908		mg/L		78	70 - 130
n-Butylbenzene	0.0500	0.05408		mg/L		108	75 - 125
N-Propylbenzene	0.0500	0.05378		mg/L		108	75 - 125
o-Xylene	0.0500	0.04980		mg/L		100	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05107		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.05321		mg/L		106	75 - 125
Styrene	0.0500	0.04833		mg/L		97	75 - 125
tert-Butylbenzene	0.0500	0.05167		mg/L		103	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04652		mg/L		93	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04839		mg/L		97	74 - 125
Tetrachloroethene	0.0500	0.04717		mg/L		94	71 - 125
Toluene	0.0500	0.04899		mg/L		98	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05121		mg/L		102	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04762		mg/L		95	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04235		mg/L		85	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04584		mg/L		92	75 - 135
1,1,1-Trichloroethane	0.0500	0.05222		mg/L		104	75 - 125
1,1,2-Trichloroethane	0.0500	0.04848		mg/L		97	75 - 127
Trichloroethene	0.0500	0.04766		mg/L		95	62 - 137
Trichlorofluoromethane	0.0500	0.05469		mg/L		109	60 - 140
1,2,3-Trichloropropane	0.0500	0.04653		mg/L		93	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05264		mg/L		105	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05190		mg/L		104	60 - 140
Vinyl chloride	0.0500	0.05118		mg/L		102	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*74 - 124*
Dibromofluoromethane (Surr)	*108*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*110*		*63 - 144*
Toluene-d8 (Surr)	*103*		*80 - 117*

QC Sample Results

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

Job ID: 880-13674-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-48775/4
Matrix: Water
Analysis Batch: 48775

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	0.04854		mg/L		97	66 - 142	3	25
Bromobenzene			0.0500	0.04719		mg/L		94	75 - 125	5	25
Bromochloromethane			0.0500	0.04898		mg/L		98	60 - 140	0	25
Bromodichloromethane			0.0500	0.04655		mg/L		93	75 - 125	2	25
Bromoform			0.0500	0.03554	*-	mg/L		71	75 - 125	2	25
Bromomethane			0.0500	0.04366		mg/L		87	60 - 140	1	25
2-Butanone			0.250	0.2304		mg/L		92	60 - 140	1	25
Carbon tetrachloride			0.0500	0.05040		mg/L		101	62 - 125	2	25
Chlorobenzene			0.0500	0.04649		mg/L		93	60 - 133	6	25
Chloroethane			0.0500	0.05397		mg/L		108	60 - 140	2	25
Chloroform			0.0500	0.05390		mg/L		108	70 - 130	2	25
Chloromethane			0.0500	0.04494		mg/L		90	60 - 140	5	25
2-Chlorotoluene			0.0500	0.05094		mg/L		102	73 - 125	5	25
4-Chlorotoluene			0.0500	0.05132		mg/L		103	74 - 125	5	25
cis-1,2-Dichloroethene			0.0500	0.05396		mg/L		108	75 - 125	0	25
cis-1,3-Dichloropropene			0.0500	0.04752		mg/L		95	74 - 125	3	25
Dibromochloromethane			0.0500	0.04042		mg/L		81	73 - 125	4	25
1,2-Dibromo-3-Chloropropane			0.0500	0.03563		mg/L		71	59 - 125	0	25
1,2-Dibromoethane			0.0500	0.04340		mg/L		87	73 - 125	5	25
1,2-Dichlorobenzene			0.0500	0.04756		mg/L		95	75 - 125	6	25
1,3-Dichlorobenzene			0.0500	0.04844		mg/L		97	75 - 125	5	25
1,4-Dichlorobenzene			0.0500	0.04827		mg/L		97	75 - 125	4	25
Dichlorodifluoromethane			0.0500	0.04541		mg/L		91	70 - 130	1	25
1,1-Dichloroethane			0.0500	0.05399		mg/L		108	72 - 125	2	25
1,2-Dichloroethane			0.0500	0.05130		mg/L		103	68 - 127	2	25
1,1-Dichloroethene			0.0500	0.04926		mg/L		99	59 - 172	2	25
1,2-Dichloropropane			0.0500	0.05035		mg/L		101	74 - 125	1	25
1,3-Dichloropropane			0.0500	0.04744		mg/L		95	75 - 125	3	25
2,2-Dichloropropane			0.0500	0.05196		mg/L		104	75 - 125	3	25
1,1-Dichloropropene			0.0500	0.05289		mg/L		106	75 - 125	1	25
Ethylbenzene			0.0500	0.04815		mg/L		96	75 - 125	5	25
Hexachlorobutadiene			0.0500	0.04863		mg/L		97	75 - 125	1	25
Isopropylbenzene			0.0500	0.04777		mg/L		96	75 - 125	3	25
Methylene Chloride			0.0500	0.05003		mg/L		100	75 - 125	1	25
m,p-Xylenes			0.0500	0.04737		mg/L		95	75 - 125	6	25
MTBE			0.0500	0.04891		mg/L		98	65 - 135	2	25
Naphthalene			0.0500	0.04134		mg/L		83	70 - 130	6	25
n-Butylbenzene			0.0500	0.05294		mg/L		106	75 - 125	2	25
N-Propylbenzene			0.0500	0.05203		mg/L		104	75 - 125	3	25
o-Xylene			0.0500	0.04761		mg/L		95	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)			0.0500	0.05020		mg/L		100	75 - 125	2	25
sec-Butylbenzene			0.0500	0.05203		mg/L		104	75 - 125	2	25
Styrene			0.0500	0.04599		mg/L		92	75 - 125	5	25
tert-Butylbenzene			0.0500	0.05060		mg/L		101	75 - 125	2	25
1,1,1,2-Tetrachloroethane			0.0500	0.04465		mg/L		89	72 - 125	4	25
1,1,2,2-Tetrachloroethane			0.0500	0.04600		mg/L		92	74 - 125	5	25
Tetrachloroethene			0.0500	0.04544		mg/L		91	71 - 125	4	25
Toluene			0.0500	0.04704		mg/L		94	59 - 139	4	25

QC Sample Results

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

Job ID: 880-13674-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-48775/4
Matrix: Water
Analysis Batch: 48775

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	0.05103		mg/L		102	75 - 125	0	25
trans-1,3-Dichloropropene			0.0500	0.04588		mg/L		92	66 - 125	4	25
1,2,3-Trichlorobenzene			0.0500	0.04362		mg/L		87	75 - 137	3	25
1,2,4-Trichlorobenzene			0.0500	0.04601		mg/L		92	75 - 135	0	25
1,1,1-Trichloroethane			0.0500	0.05179		mg/L		104	75 - 125	1	25
1,1,2-Trichloroethane			0.0500	0.04712		mg/L		94	75 - 127	3	25
Trichloroethene			0.0500	0.04652		mg/L		93	62 - 137	2	25
Trichlorofluoromethane			0.0500	0.05470		mg/L		109	60 - 140	0	25
1,2,3-Trichloropropane			0.0500	0.04429		mg/L		89	75 - 125	5	25
1,2,4-Trimethylbenzene			0.0500	0.05036		mg/L		101	75 - 125	4	25
1,3,5-Trimethylbenzene			0.0500	0.05001		mg/L		100	60 - 140	4	25
Vinyl chloride			0.0500	0.05061		mg/L		101	60 - 140	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*
Dibromofluoromethane (Surr)	*108*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*110*		*63 - 144*
Toluene-d8 (Surr)	*102*		*80 - 117*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-48771/3
Matrix: Water
Analysis Batch: 48771

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			04/14/22 09:12	1
Chloride	<0.200	U	0.500	0.200	mg/L			04/14/22 09:12	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/14/22 09:12	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/14/22 09:12	1

Lab Sample ID: LCS 860-48771/6
Matrix: Water
Analysis Batch: 48771

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide			10.0	9.421		mg/L		94	90 - 110
Chloride			10.0	9.518		mg/L		95	90 - 110
Fluoride			10.0	10.11		mg/L		101	90 - 110
Sulfate			10.0	9.887		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-48771/7
Matrix: Water
Analysis Batch: 48771

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	9.607		mg/L		96	90 - 110	2	20
Chloride			10.0	9.515		mg/L		95	90 - 110	0	20
Fluoride			10.0	10.15		mg/L		101	90 - 110	0	20

QC Sample Results

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

Job ID: 880-13674-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-48771/7
Matrix: Water
Analysis Batch: 48771

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	9.884		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-48771/5
Matrix: Water
Analysis Batch: 48771

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	0.5497		mg/L		110	50 - 150
Chloride	0.500	0.5411		mg/L		108	50 - 150
Fluoride	0.500	0.4965	J	mg/L		99	50 - 150
Sulfate	0.500	0.5541		mg/L		111	50 - 150

Lab Sample ID: MB 860-48772/3
Matrix: Water
Analysis Batch: 48772

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			04/14/22 09:12	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/14/22 09:12	1

Lab Sample ID: LCS 860-48772/6
Matrix: Water
Analysis Batch: 48772

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	9.361		mg/L		94	80 - 120
Nitrite as N	5.00	4.957		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-48772/7
Matrix: Water
Analysis Batch: 48772

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	9.384		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	4.992		mg/L		100	80 - 120	1	20

Lab Sample ID: LLCS 860-48772/4
Matrix: Water
Analysis Batch: 48772

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	0.1387		mg/L		139	50 - 150
Nitrite as N	0.100	0.09937	J	mg/L		99	50 - 150

QC Sample Results

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

Job ID: 880-13674-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-48967/1-A
Matrix: Water
Analysis Batch: 49136

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 48967

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293	mg/L		04/15/22 08:38	04/15/22 15:25	1
Magnesium	<0.0500	U	0.200	0.0500	mg/L		04/15/22 08:38	04/15/22 15:25	1
Potassium	<0.107	U	0.500	0.107	mg/L		04/15/22 08:38	04/15/22 15:25	1
Sodium	<0.0667	U	0.500	0.0667	mg/L		04/15/22 08:38	04/15/22 15:25	1
SiO2	<0.0781	U	1.07	0.0781	mg/L		04/15/22 08:38	04/15/22 15:25	1

Lab Sample ID: LCS 860-48967/2-A
Matrix: Water
Analysis Batch: 49136

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 48967

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			25.0	23.04		mg/L		92	85 - 115		
Magnesium			25.0	22.68		mg/L		91	85 - 115		
Potassium			10.0	9.158		mg/L		92	85 - 115		
Sodium			25.0	21.95		mg/L		88	85 - 115		
SiO2			21.4	19.16		mg/L		90	85 - 115		

Lab Sample ID: LCSD 860-48967/3-A
Matrix: Water
Analysis Batch: 49136

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 48967

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium			25.0	23.05		mg/L		92	85 - 115	0	20
Magnesium			25.0	22.68		mg/L		91	85 - 115	0	20
Potassium			10.0	9.144		mg/L		91	85 - 115	0	20
Sodium			25.0	21.93		mg/L		88	85 - 115	0	20
SiO2			21.4	19.17		mg/L		90	85 - 115	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-49078/3
Matrix: Water
Analysis Batch: 49078

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			04/15/22 10:43	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/15/22 10:43	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/15/22 10:43	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			04/15/22 10:43	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			04/15/22 10:43	1

Lab Sample ID: LCS 860-49078/4
Matrix: Water
Analysis Batch: 49078

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			250	254.6		mg/L		102	85 - 115		

QC Sample Results

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

Job ID: 880-13674-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-49078/5
Matrix: Water
Analysis Batch: 49078

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity			250	262.9		mg/L		105	85 - 115	3	20

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

Lab Sample ID: MB 860-48908/1
Matrix: Water
Analysis Batch: 48908

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			04/14/22 16:54	1

Lab Sample ID: LCS 860-48908/2
Matrix: Water
Analysis Batch: 48908

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	1025		mg/L		103	80 - 120		

Lab Sample ID: LCSD 860-48908/3
Matrix: Water
Analysis Batch: 48908

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	1068		mg/L		107	80 - 120	4	10

QC Association Summary

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

Job ID: 880-13674-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 48775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13674-1	Levey Well	Total/NA	Water	8260C	
MB 860-48775/10	Method Blank	Total/NA	Water	8260C	
LCS 860-48775/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-48775/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 48771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13674-1	Levey Well	Total/NA	Water	300.0	
MB 860-48771/3	Method Blank	Total/NA	Water	300.0	
LCS 860-48771/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-48771/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-48771/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 48772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13674-1	Levey Well	Total/NA	Water	300.0	
MB 860-48772/3	Method Blank	Total/NA	Water	300.0	
LCS 860-48772/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-48772/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-48772/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 48967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13674-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-48967/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-48967/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-48967/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 49136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13674-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	48967
880-13674-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	48967
MB 860-48967/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	48967
LCS 860-48967/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	48967
LCSD 860-48967/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	48967

General Chemistry

Analysis Batch: 48908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13674-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-48908/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-48908/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-48908/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 49076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13674-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

QC Association Summary

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

Job ID: 880-13674-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 49078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13674-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-49078/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-49078/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-49078/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 49430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13674-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-13674-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/13/22 08:45
Date Received: 04/13/22 14:45

Lab Sample ID: 880-13674-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	48775	04/14/22 19:12	AN	XEN STF
Total/NA	Analysis	300.0		1	48771	04/14/22 17:43	ANP	XEN STF
Total/NA	Analysis	300.0		1	48772	04/14/22 17:43	ANP	XEN STF
Total Recoverable	Prep	200.7			48967	04/15/22 08:38	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	49136	04/15/22 16:01	DP	XEN STF
Total Recoverable	Prep	200.7			48967	04/15/22 08:38	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	49136	04/15/22 16:04	DP	XEN STF
Total/NA	Analysis	SM 1030E		1	49430	04/19/22 11:30	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	49078	04/15/22 14:32	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	48908	04/14/22 16:54	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	49076	04/15/22 15:16	TL	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-13674-1
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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
8260C		Water	Total BTEX
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 Hobb NM - 03B1417001

Job ID: 880-13674-1
SDG: Hobbs NM

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-13674-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13674-1	Levey Well	Water	04/13/22 08:45	04/13/22 14:45

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Chain of Custody

XENCO LABORATORIES

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) www.xenco.com

Work Order No: 13674

4/19/2022

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com /camarquez@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.	Aaron Marquez	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	4.3/4.2	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals.	Yes No (N/A)	Correction Factor:	-1
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS
Levey Well	W	4-13-22	0845	-	7	X	X	X	X	X	X

880-13674 Chain of Custody

Work Order Notes

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

Sample Comments

24 hr

NFE AAM 4-13-22

CUSTODY SEAL

Date 4-13-2022

Signature

Thermo SCIENTIFIC

90009

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 Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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		4/13/22 14:45	2		
3			4		

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Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-13674-1
SDG Number: Hobbs NM

Login Number: 13674
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: 880-13674-1
SDG Number: Hobbs NM

Login Number: 13674
List Number: 2
Creator: Milone, Jeancarlo

List Source: Eurofins Houston
List Creation: 04/14/22 03:45 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-13673-1
Client Project/Site: South Hobbs - 03B1417002
Sampling Event: South Hobbs

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
4/19/2022 12:20:56 PM

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

LINKS
Review your project results through TotalAccess
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

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

Laboratory Job ID: 880-13673-1

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Eurofins Midland
4/19/2022

Definitions/Glossary

Client: Ensolum Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Glossary

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

Case Narrative

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13673-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-13673-1

Receipt
The samples were received on 4/13/2022 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-48771 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-48772 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The following sample was received outside of holding time: (870-7145-A-1 MS).

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

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

Client Sample Results

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13673-1
Date Collected: 04/13/22 09:50
Matrix: Water
Date Received: 04/13/22 14:45

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/15/22 08:02	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/15/22 08:02	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/15/22 08:02	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/15/22 08:02	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/15/22 08:02	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/15/22 08:02	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/15/22 08:02	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/15/22 08:02	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/15/22 08:02	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/15/22 08:02	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/15/22 08:02	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/15/22 08:02	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/15/22 08:02	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/15/22 08:02	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/15/22 08:02	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/15/22 08:02	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/15/22 08:02	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/15/22 08:02	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/15/22 08:02	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/15/22 08:02	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/15/22 08:02	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/15/22 08:02	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/15/22 08:02	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/15/22 08:02	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/15/22 08:02	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/15/22 08:02	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/15/22 08:02	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/15/22 08:02	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/15/22 08:02	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/15/22 08:02	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/15/22 08:02	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/15/22 08:02	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/15/22 08:02	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/15/22 08:02	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/15/22 08:02	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/15/22 08:02	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/15/22 08:02	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/15/22 08:02	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/15/22 08:02	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/15/22 08:02	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/15/22 08:02	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/15/22 08:02	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/15/22 08:02	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/15/22 08:02	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/15/22 08:02	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/15/22 08:02	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/15/22 08:02	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/15/22 08:02	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/15/22 08:02	1

Client Sample Results

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13673-1
Date Collected: 04/13/22 09:50
Matrix: Water
Date Received: 04/13/22 14:45

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/15/22 08:02	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/15/22 08:02	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/15/22 08:02	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/15/22 08:02	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/15/22 08:02	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/15/22 08:02	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/15/22 08:02	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/15/22 08:02	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/15/22 08:02	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/15/22 08:02	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/15/22 08:02	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/15/22 08:02	1
Total BTEX	**0.000300**	**J**	0.0100	0.000214	mg/L			04/15/22 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*		*04/15/22 08:02*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 131*		*04/15/22 08:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*63 - 144*		*04/15/22 08:02*	*1*
Toluene-d8 (Surr)	*103*		*80 - 117*		*04/15/22 08:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.918	U	4.64	0.918	mg/L			04/07/22 07:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.918	U	4.64	0.918	mg/L		04/15/22 12:35	04/15/22 14:14	1
Diesel Range Organics (Over C10-C28)	<0.918	U	4.64	0.918	mg/L		04/15/22 12:35	04/15/22 14:14	1
OII Range Organics (Over C28-C36)	<0.886	U	4.64	0.886	mg/L		04/15/22 12:35	04/15/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 135*	*04/15/22 12:35*	*04/15/22 14:14*	*1*
o-Terphenyl	*104*		*70 - 135*	*04/15/22 12:35*	*04/15/22 14:14*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		0.500	0.200	mg/L			04/14/22 17:10	1
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			04/14/22 17:10	1
Fluoride	**0.767**		0.500	0.100	mg/L			04/14/22 17:10	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/14/22 17:10	1
Sulfate	**40.9**		0.500	0.109	mg/L			04/14/22 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**259**		4.00	4.00	mg/L			04/15/22 13:29	1
Bicarbonate Alkalinity as CaCO3	**259**		4.00	4.00	mg/L			04/15/22 13:29	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/15/22 13:29	1
Carbon dioxide	**241**				mg/L			04/19/22 11:28	1
Carbon Dioxide, Free	**13.0**				mg/L			04/19/22 11:28	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13673-1
Date Collected: 04/13/22 09:50
Matrix: Water
Date Received: 04/13/22 14:45

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.6**	**HF**			SU			04/15/22 15:16	1
Temperature	**19.0**	**HF**			Celsius			04/15/22 15:16	1
Sulfide	<0.495	U	5.00	0.495	mg/L			04/15/22 18:43	1

Client Sample ID: MW-2
Lab Sample ID: 880-13673-2
Date Collected: 04/13/22 11:20
Matrix: Water
Date Received: 04/13/22 14:45

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0303**		0.00100	0.000214	mg/L			04/15/22 08:22	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/15/22 08:22	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/15/22 08:22	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/15/22 08:22	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/15/22 08:22	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/15/22 08:22	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/15/22 08:22	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/15/22 08:22	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/15/22 08:22	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/15/22 08:22	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/15/22 08:22	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/15/22 08:22	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/15/22 08:22	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/15/22 08:22	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/15/22 08:22	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/15/22 08:22	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/15/22 08:22	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/15/22 08:22	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/15/22 08:22	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/15/22 08:22	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/15/22 08:22	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/15/22 08:22	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/15/22 08:22	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/15/22 08:22	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/15/22 08:22	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/15/22 08:22	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/15/22 08:22	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/15/22 08:22	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/15/22 08:22	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/15/22 08:22	1
Ethylbenzene	**0.0235**		0.00100	0.000515	mg/L			04/15/22 08:22	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/15/22 08:22	1
Isopropylbenzene	**0.00770**		0.00100	0.000161	mg/L			04/15/22 08:22	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/15/22 08:22	1
m,p-Xylenes	**0.135**		0.0100	0.000330	mg/L			04/15/22 08:22	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/15/22 08:22	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/15/22 08:22	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/15/22 08:22	1
N-Propylbenzene	**0.00212**		0.00100	0.000179	mg/L			04/15/22 08:22	1
o-Xylene	**0.0218**		0.00100	0.000192	mg/L			04/15/22 08:22	1

Client Sample Results

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

Job ID: 880-13673-1

Client Sample ID: MW-2

Date Collected: 04/13/22 11:20
Date Received: 04/13/22 14:45

Lab Sample ID: 880-13673-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
p-Cymene (p-Isopropyltoluene)	0.000812	J	0.00100	0.000233	mg/L			04/15/22 08:22	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/15/22 08:22	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/15/22 08:22	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/15/22 08:22	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/15/22 08:22	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/15/22 08:22	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/15/22 08:22	1
Toluene	0.0271		0.00100	0.000500	mg/L			04/15/22 08:22	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/15/22 08:22	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/15/22 08:22	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/15/22 08:22	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/15/22 08:22	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/15/22 08:22	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/15/22 08:22	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/15/22 08:22	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/15/22 08:22	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/15/22 08:22	1
1,2,4-Trimethylbenzene	0.0368		0.00100	0.000252	mg/L			04/15/22 08:22	1
1,3,5-Trimethylbenzene	0.00937		0.00100	0.000279	mg/L			04/15/22 08:22	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/15/22 08:22	1
Xylenes, Total	0.157		0.0100	0.000330	mg/L			04/15/22 08:22	1
Total BTEX	0.238		0.0100	0.000214	mg/L			04/15/22 08:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*74 - 124*		*04/15/22 08:22*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 131*		*04/15/22 08:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*63 - 144*		*04/15/22 08:22*	*1*
Toluene-d8 (Surr)	*104*		*80 - 117*		*04/15/22 08:22*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	0.915	J	4.59	0.906	mg/L			04/07/22 07:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.915	J	4.59	0.906	mg/L		04/15/22 12:35	04/15/22 14:34	1
Diesel Range Organics (Over C10-C28)	<0.906	U	4.59	0.906	mg/L		04/15/22 12:35	04/15/22 14:34	1
Oil Range Organics (Over C28-C36)	<0.875	U	4.59	0.875	mg/L		04/15/22 12:35	04/15/22 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 135*	*04/15/22 12:35*	*04/15/22 14:34*	*1*
o-Terphenyl	*106*		*70 - 135*	*04/15/22 12:35*	*04/15/22 14:34*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		0.500	0.200	mg/L			04/14/22 17:21	1
Nitrate as N	0.589		0.100	0.0391	mg/L			04/14/22 17:21	1
Fluoride	0.271	J	0.500	0.100	mg/L			04/14/22 17:21	1
Nitrite as N	1.67		0.100	0.0293	mg/L			04/14/22 17:21	1

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Client Sample Results

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

Job ID: 880-13673-1

Client Sample ID: MW-2

Date Collected: 04/13/22 11:20
Date Received: 04/13/22 14:45

Lab Sample ID: 880-13673-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**108**		5.00	1.09	mg/L			04/14/22 17:32	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**1380**		4.00	4.00	mg/L			04/15/22 14:02	1
Bicarbonate Alkalinity as CaCO3	**1380**		4.00	4.00	mg/L			04/15/22 14:02	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/15/22 14:02	1
Carbon dioxide	**2090**				mg/L			04/19/22 11:28	1
Carbon Dioxide, Free	**874**				mg/L			04/19/22 11:28	1
pH	**6.5**	**HF**			SU			04/15/22 15:16	1
Temperature	**19.0**	**HF**			Celsius			04/15/22 15:16	1
Sulfide	<0.495	U	5.00	0.495	mg/L			04/15/22 18:43	1

Surrogate Summary

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(74-124)	(75-131)	(63-144)	(80-117)
860-24349-E-1 MS	Matrix Spike	103	107	110	102
880-13673-1	MW-1	105	107	115	103
880-13673-2	MW-2	107	105	115	104
LCS 860-48920/3	Lab Control Sample	104	108	111	102
LCSD 860-48920/4	Lab Control Sample Dup	104	108	112	102
MB 860-48920/10	Method Blank	107	104	115	105

Surrogate Legend

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

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
880-13673-1	MW-1	95	104
880-13673-2	MW-2	97	106
LCS 860-49040/2-A	Lab Control Sample	106	95
LCSD 860-49040/3-A	Lab Control Sample Dup	110	94
MB 860-49040/1-A	Method Blank	96	104

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 880-13673-1

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

Lab Sample ID: MB 860-48920/10
Matrix: Water
Analysis Batch: 48920

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/15/22 00:40	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/15/22 00:40	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/15/22 00:40	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/15/22 00:40	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/15/22 00:40	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/15/22 00:40	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/15/22 00:40	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/15/22 00:40	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/15/22 00:40	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/15/22 00:40	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/15/22 00:40	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/15/22 00:40	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/15/22 00:40	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/15/22 00:40	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/15/22 00:40	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/15/22 00:40	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/15/22 00:40	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/15/22 00:40	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/15/22 00:40	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/15/22 00:40	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/15/22 00:40	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/15/22 00:40	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/15/22 00:40	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/15/22 00:40	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/15/22 00:40	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/15/22 00:40	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/15/22 00:40	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/15/22 00:40	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/15/22 00:40	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/15/22 00:40	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/15/22 00:40	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/15/22 00:40	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/15/22 00:40	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/15/22 00:40	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/15/22 00:40	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/15/22 00:40	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/15/22 00:40	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/15/22 00:40	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/15/22 00:40	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/15/22 00:40	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/15/22 00:40	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/15/22 00:40	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/15/22 00:40	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/15/22 00:40	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/15/22 00:40	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/15/22 00:40	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/15/22 00:40	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/15/22 00:40	1

QC Sample Results

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

Job ID: 880-13673-1

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

Lab Sample ID: MB 860-48920/10
Matrix: Water
Analysis Batch: 48920

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/15/22 00:40	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/15/22 00:40	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/15/22 00:40	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/15/22 00:40	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/15/22 00:40	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/15/22 00:40	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/15/22 00:40	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/15/22 00:40	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/15/22 00:40	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/15/22 00:40	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/15/22 00:40	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/15/22 00:40	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/15/22 00:40	1
Total BTEX	<0.000214	U	0.0100	0.000214	mg/L			04/15/22 00:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*74 - 124*		*04/15/22 00:40*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*04/15/22 00:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*63 - 144*		*04/15/22 00:40*	*1*
Toluene-d8 (Surr)	*105*		*80 - 117*		*04/15/22 00:40*	*1*

Lab Sample ID: LCS 860-48920/3
Matrix: Water
Analysis Batch: 48920

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	0.05510		mg/L		110	66 - 142
Bromobenzene	0.0500	0.05328		mg/L		107	75 - 125
Bromochloromethane	0.0500	0.05452		mg/L		109	60 - 140
Bromodichloromethane	0.0500	0.05160		mg/L		103	75 - 125
Bromoform	0.0500	0.03851		mg/L		77	75 - 125
Bromomethane	0.0500	0.05074		mg/L		101	60 - 140
2-Butanone	0.250	0.2657		mg/L		106	60 - 140
Carbon tetrachloride	0.0500	0.05493		mg/L		110	62 - 125
Chlorobenzene	0.0500	0.05323		mg/L		106	60 - 133
Chloroethane	0.0500	0.05885		mg/L		118	60 - 140
Chloroform	0.0500	0.06022		mg/L		120	70 - 130
Chloromethane	0.0500	0.05419		mg/L		108	60 - 140
2-Chlorotoluene	0.0500	0.05674		mg/L		113	73 - 125
4-Chlorotoluene	0.0500	0.05718		mg/L		114	74 - 125
cis-1,2-Dichloroethene	0.0500	0.06032		mg/L		121	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05295		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.04444		mg/L		89	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03880		mg/L		78	59 - 125
1,2-Dibromoethane	0.0500	0.04960		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.05295		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05349		mg/L		107	75 - 125
1,4-Dichlorobenzene	0.0500	0.05323		mg/L		106	75 - 125

QC Sample Results

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

Job ID: 880-13673-1

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

Lab Sample ID: LCS 860-48920/3
Matrix: Water
Analysis Batch: 48920

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.05033		mg/L		101	70 - 130
1,1-Dichloroethane	0.0500	0.06173		mg/L		123	72 - 125
1,2-Dichloroethane	0.0500	0.05776		mg/L		116	68 - 127
1,1-Dichloroethene	0.0500	0.05617		mg/L		112	59 - 172
1,2-Dichloropropane	0.0500	0.05663		mg/L		113	74 - 125
1,3-Dichloropropane	0.0500	0.05344		mg/L		107	75 - 125
2,2-Dichloropropane	0.0500	0.05537		mg/L		111	75 - 125
1,1-Dichloropropene	0.0500	0.05843		mg/L		117	75 - 125
Ethylbenzene	0.0500	0.05449		mg/L		109	75 - 125
Hexachlorobutadiene	0.0500	0.04974		mg/L		99	75 - 125
Isopropylbenzene	0.0500	0.05311		mg/L		106	75 - 125
Methylene Chloride	0.0500	0.05659		mg/L		113	75 - 125
m,p-Xylenes	0.0500	0.05415		mg/L		108	75 - 125
MTBE	0.0500	0.05510		mg/L		110	65 - 135
Naphthalene	0.0500	0.04516		mg/L		90	70 - 130
n-Butylbenzene	0.0500	0.05597		mg/L		112	75 - 125
N-Propylbenzene	0.0500	0.05667		mg/L		113	75 - 125
o-Xylene	0.0500	0.05399		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05385		mg/L		108	75 - 125
sec-Butylbenzene	0.0500	0.05507		mg/L		110	75 - 125
Styrene	0.0500	0.05223		mg/L		104	75 - 125
tert-Butylbenzene	0.0500	0.05419		mg/L		108	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04919		mg/L		98	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05120		mg/L		102	74 - 125
Tetrachloroethene	0.0500	0.05111		mg/L		102	71 - 125
Toluene	0.0500	0.05331		mg/L		107	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05753		mg/L		115	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05127		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04791		mg/L		96	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04972		mg/L		99	75 - 135
1,1,1-Trichloroethane	0.0500	0.05691		mg/L		114	75 - 125
1,1,2-Trichloroethane	0.0500	0.05337		mg/L		107	75 - 127
Trichloroethene	0.0500	0.05260		mg/L		105	62 - 137
Trichlorofluoromethane	0.0500	0.05384		mg/L		108	60 - 140
1,2,3-Trichloropropane	0.0500	0.04966		mg/L		99	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05583		mg/L		112	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05474		mg/L		109	60 - 140
Vinyl chloride	0.0500	0.05552		mg/L		111	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*74 - 124*
Dibromofluoromethane (Surr)	*108*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 144*
Toluene-d8 (Surr)	*102*		*80 - 117*

QC Sample Results

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

Job ID: 880-13673-1

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

Lab Sample ID: LCSD 860-48920/4
Matrix: Water
Analysis Batch: 48920

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	0.05674		mg/L		113	66 - 142	3	25
Bromobenzene			0.0500	0.05395		mg/L		108	75 - 125	1	25
Bromochloromethane			0.0500	0.05624		mg/L		112	60 - 140	3	25
Bromodichloromethane			0.0500	0.05292		mg/L		106	75 - 125	3	25
Bromoform			0.0500	0.04102		mg/L		82	75 - 125	6	25
Bromomethane			0.0500	0.05181		mg/L		104	60 - 140	2	25
2-Butanone			0.250	0.2935		mg/L		117	60 - 140	10	25
Carbon tetrachloride			0.0500	0.05592		mg/L		112	62 - 125	2	25
Chlorobenzene			0.0500	0.05412		mg/L		108	60 - 133	2	25
Chloroethane			0.0500	0.06015		mg/L		120	60 - 140	2	25
Chloroform			0.0500	0.06164		mg/L		123	70 - 130	2	25
Chloromethane			0.0500	0.05492		mg/L		110	60 - 140	1	25
2-Chlorotoluene			0.0500	0.05695		mg/L		114	73 - 125	0	25
4-Chlorotoluene			0.0500	0.05755		mg/L		115	74 - 125	1	25
cis-1,2-Dichloroethene			0.0500	0.06137		mg/L		123	75 - 125	2	25
cis-1,3-Dichloropropene			0.0500	0.05443		mg/L		109	74 - 125	3	25
Dibromochloromethane			0.0500	0.04610		mg/L		92	73 - 125	4	25
1,2-Dibromo-3-Chloropropane			0.0500	0.04365		mg/L		87	59 - 125	12	25
1,2-Dibromoethane			0.0500	0.05269		mg/L		105	73 - 125	6	25
1,2-Dichlorobenzene			0.0500	0.05466		mg/L		109	75 - 125	3	25
1,3-Dichlorobenzene			0.0500	0.05392		mg/L		108	75 - 125	1	25
1,4-Dichlorobenzene			0.0500	0.05390		mg/L		108	75 - 125	1	25
Dichlorodifluoromethane			0.0500	0.05195		mg/L		104	70 - 130	3	25
1,1-Dichloroethane			0.0500	0.06137		mg/L		123	72 - 125	1	25
1,2-Dichloroethane			0.0500	0.05972		mg/L		119	68 - 127	3	25
1,1-Dichloroethene			0.0500	0.05778		mg/L		116	59 - 172	3	25
1,2-Dichloropropane			0.0500	0.05839		mg/L		117	74 - 125	3	25
1,3-Dichloropropane			0.0500	0.05557		mg/L		111	75 - 125	4	25
2,2-Dichloropropane			0.0500	0.05651		mg/L		113	75 - 125	2	25
1,1-Dichloropropene			0.0500	0.05993		mg/L		120	75 - 125	3	25
Ethylbenzene			0.0500	0.05561		mg/L		111	75 - 125	2	25
Hexachlorobutadiene			0.0500	0.05069		mg/L		101	75 - 125	2	25
Isopropylbenzene			0.0500	0.05385		mg/L		108	75 - 125	1	25
Methylene Chloride			0.0500	0.05767		mg/L		115	75 - 125	2	25
m,p-Xylenes			0.0500	0.05502		mg/L		110	75 - 125	2	25
MTBE			0.0500	0.05804		mg/L		116	65 - 135	5	25
Naphthalene			0.0500	0.05345		mg/L		107	70 - 130	17	25
n-Butylbenzene			0.0500	0.05599		mg/L		112	75 - 125	0	25
N-Propylbenzene			0.0500	0.05657		mg/L		113	75 - 125	0	25
o-Xylene			0.0500	0.05497		mg/L		110	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)			0.0500	0.05312		mg/L		106	75 - 125	1	25
sec-Butylbenzene			0.0500	0.05491		mg/L		110	75 - 125	0	25
Styrene			0.0500	0.05415		mg/L		108	75 - 125	4	25
tert-Butylbenzene			0.0500	0.05413		mg/L		108	75 - 125	0	25
1,1,1,2-Tetrachloroethane			0.0500	0.05035		mg/L		101	72 - 125	2	25
1,1,2,2-Tetrachloroethane			0.0500	0.05547		mg/L		111	74 - 125	8	25
Tetrachloroethene			0.0500	0.05176		mg/L		104	71 - 125	1	25
Toluene			0.0500	0.05510		mg/L		110	59 - 139	3	25

QC Sample Results

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

Job ID: 880-13673-1

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

Lab Sample ID: LCSD 860-48920/4
Matrix: Water
Analysis Batch: 48920

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	0.05947		mg/L		119	75 - 125	3	25
trans-1,3-Dichloropropene			0.0500	0.05336		mg/L		107	66 - 125	4	25
1,2,3-Trichlorobenzene			0.0500	0.05419		mg/L		108	75 - 137	12	25
1,2,4-Trichlorobenzene			0.0500	0.05373		mg/L		107	75 - 135	8	25
1,1,1-Trichloroethane			0.0500	0.05847		mg/L		117	75 - 125	3	25
1,1,2-Trichloroethane			0.0500	0.05552		mg/L		111	75 - 127	4	25
Trichloroethene			0.0500	0.05335		mg/L		107	62 - 137	1	25
Trichlorofluoromethane			0.0500	0.05563		mg/L		111	60 - 140	3	25
1,2,3-Trichloropropane			0.0500	0.05723		mg/L		114	75 - 125	14	25
1,2,4-Trimethylbenzene			0.0500	0.05601		mg/L		112	75 - 125	0	25
1,3,5-Trimethylbenzene			0.0500	0.05475		mg/L		109	60 - 140	0	25
Vinyl chloride			0.0500	0.05723		mg/L		114	60 - 140	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*74 - 124*
Dibromofluoromethane (Surr)	*108*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*112*		*63 - 144*
Toluene-d8 (Surr)	*102*		*80 - 117*

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

Lab Sample ID: MB 860-49040/1-A
Matrix: Water
Analysis Batch: 49049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49040

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		04/15/22 12:35	04/15/22 13:54	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		04/15/22 12:35	04/15/22 13:54	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		04/15/22 12:35	04/15/22 13:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 135*	*04/15/22 12:35*	*04/15/22 13:54*	*1*
o-Terphenyl	*104*		*70 - 135*	*04/15/22 12:35*	*04/15/22 13:54*	*1*

Lab Sample ID: LCS 860-49040/2-A
Matrix: Water
Analysis Batch: 49049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49040

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			99.8	104.1		mg/L		104	70 - 135		
Diesel Range Organics (Over C10-C28)			100	93.09		mg/L		93	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 135*
o-Terphenyl	*95*		*70 - 135*

QC Sample Results

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

Job ID: 880-13673-1

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

Lab Sample ID: LCSD 860-49040/3-A
Matrix: Water
Analysis Batch: 49049

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49040

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.8	107.2		mg/L		107	70 - 135	3	35
Diesel Range Organics (Over C10-C28)			100	95.78		mg/L		96	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 135*
o-Terphenyl	*94*		*70 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-48771/3
Matrix: Water
Analysis Batch: 48771

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			04/14/22 09:12	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/14/22 09:12	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/14/22 09:12	1

Lab Sample ID: LCS 860-48771/6
Matrix: Water
Analysis Batch: 48771

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			10.0	9.518		mg/L		95	90 - 110
Fluoride			10.0	10.11		mg/L		101	90 - 110
Sulfate			10.0	9.887		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-48771/7
Matrix: Water
Analysis Batch: 48771

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.515		mg/L		95	90 - 110	0	20
Fluoride			10.0	10.15		mg/L		101	90 - 110	0	20
Sulfate			10.0	9.884		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-48771/5
Matrix: Water
Analysis Batch: 48771

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			0.500	0.5411		mg/L		108	50 - 150
Fluoride			0.500	0.4965	J	mg/L		99	50 - 150
Sulfate			0.500	0.5541		mg/L		111	50 - 150

QC Sample Results

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-48772/3
Matrix: Water
Analysis Batch: 48772

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			04/14/22 09:12	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/14/22 09:12	1

Lab Sample ID: LCS 860-48772/6
Matrix: Water
Analysis Batch: 48772

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	9.361		mg/L		94	80 - 120
Nitrite as N	5.00	4.957		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-48772/7
Matrix: Water
Analysis Batch: 48772

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	9.384		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	4.992		mg/L		100	80 - 120	1	20

Lab Sample ID: LLCS 860-48772/4
Matrix: Water
Analysis Batch: 48772

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	0.1387		mg/L		139	50 - 150
Nitrite as N	0.100	0.09937	J	mg/L		99	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-49078/3
Matrix: Water
Analysis Batch: 49078

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			04/15/22 10:43	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/15/22 10:43	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/15/22 10:43	1

Lab Sample ID: LCS 860-49078/4
Matrix: Water
Analysis Batch: 49078

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	254.6		mg/L		102	85 - 115

QC Sample Results

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-49078/5
Matrix: Water
Analysis Batch: 49078

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity			250	262.9		mg/L		105	85 - 115	3	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-49107/1
Matrix: Water
Analysis Batch: 49107

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495	mg/L			04/15/22 18:43	1

Lab Sample ID: LCS 860-49107/2
Matrix: Water
Analysis Batch: 49107

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			50.0	46.60		mg/L		93	80 - 120		

Lab Sample ID: LCSD 860-49107/3
Matrix: Water
Analysis Batch: 49107

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			50.0	46.20		mg/L		92	80 - 120	1	20

Lab Sample ID: 880-13673-1 MS
Matrix: Water
Analysis Batch: 49107

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.495	U	50.0	46.20		mg/L		92	80 - 120		

Lab Sample ID: 880-13673-1 MSD
Matrix: Water
Analysis Batch: 49107

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	45.40		mg/L		91	80 - 120	2	20

QC Association Summary

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 48920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	8260C	
880-13673-2	MW-2	Total/NA	Water	8260C	
MB 860-48920/10	Method Blank	Total/NA	Water	8260C	
LCS 860-48920/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-48920/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 47915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	8015 NM	
880-13673-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 49040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-13673-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-49040/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-49040/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-49040/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 49049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	8015B NM	49040
880-13673-2	MW-2	Total/NA	Water	8015B NM	49040
MB 860-49040/1-A	Method Blank	Total/NA	Water	8015B NM	49040
LCS 860-49040/2-A	Lab Control Sample	Total/NA	Water	8015B NM	49040
LCSD 860-49040/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	49040

HPLC/IC

Analysis Batch: 48771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	300.0	
880-13673-2	MW-2	Total/NA	Water	300.0	
880-13673-2	MW-2	Total/NA	Water	300.0	
MB 860-48771/3	Method Blank	Total/NA	Water	300.0	
LCS 860-48771/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-48771/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-48771/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 48772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	300.0	
880-13673-2	MW-2	Total/NA	Water	300.0	
MB 860-48772/3	Method Blank	Total/NA	Water	300.0	
LCS 860-48772/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-48772/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-48772/4	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

General Chemistry

Analysis Batch: 49076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-13673-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 49078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	SM 2320B	
880-13673-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-49078/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-49078/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-49078/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 49107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-13673-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-49107/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-49107/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-49107/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-13673-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-13673-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 49428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13673-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-13673-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13673-1
Date Collected: 04/13/22 09:50
Matrix: Water
Date Received: 04/13/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	48920	04/15/22 08:02	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	47915	04/07/22 07:56	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			49040	04/15/22 12:35	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	49049	04/15/22 14:14	SAR	XEN STF
Total/NA	Analysis	300.0		1	48771	04/14/22 17:10	ANP	XEN STF
Total/NA	Analysis	300.0		1	48772	04/14/22 17:10	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	49078	04/15/22 13:29	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	49428	04/19/22 11:28	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	49076	04/15/22 15:16	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	49107	04/15/22 18:43	YGG	XEN STF

Client Sample ID: MW-2
Lab Sample ID: 880-13673-2
Date Collected: 04/13/22 11:20
Matrix: Water
Date Received: 04/13/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	48920	04/15/22 08:22	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	47915	04/07/22 07:56	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			49040	04/15/22 12:35	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	49049	04/15/22 14:34	SAR	XEN STF
Total/NA	Analysis	300.0		1	48771	04/14/22 17:21	ANP	XEN STF
Total/NA	Analysis	300.0		1	48772	04/14/22 17:21	ANP	XEN STF
Total/NA	Analysis	300.0		10	48771	04/14/22 17:32	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	49078	04/15/22 14:02	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	49428	04/19/22 11:28	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	49076	04/15/22 15:16	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	49107	04/15/22 18:43	YGG	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
8260C		Water	Total BTEX
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

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

Protocol References:

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

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

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

Laboratory References:

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

Sample Summary

Client: Ensolum
Job ID: 880-13673-1
Project/Site: South Hobbs - 03B1417002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13673-1	MW-1	Water	04/13/22 09:50	04/13/22 14:45
880-13673-2	MW-2	Water	04/13/22 11:20	04/13/22 14:45

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Chain of Custody

XENCO LABORATORIES

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

Work Order No: 13673

www.xenco.com Page 1 of 1

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

Work Order Comments

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

Project Name:	South Hobbs	Turn Around	
Project Number:	03B1417002	Routine ☐	
P.O. Number:	03B1417002	Rush 24 Hr	
Sampler's Name.	Shane Diller	Due Date	

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	4.3/4.2	Thermometer ID	IR2
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Dissolved Carbon Dioxcide 4500 CO2 c	Dissolved Sulfide SW-846 #376.2	VOC SW-846 #8260	TPH EPA Method #8015	Chloride EPA Method #846 300	pH EPA SW-846 Method 150.1
MW-1	GW	4-13-22	0950	75'	7	X	X	X	X	X	X
MW-2	GW	4.13.22	1120	85'	7	X	X	X	X	X	X

NVE AAM 4-13-22

Work Order Notes

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

Sample Comments

24 Hr

880-13673 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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		4/13/22 14:45	2		
3			4		
5			6		

Revised Date 051418 Rev 2018 1

Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-13673-1

Login Number: 13673 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-13673-1

Login Number: 13673 **List Source: Eurofins Houston**
List Number: 2 **List Creation: 04/14/22 03:45 PM**
Creator: Milone, Jeancarlo

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-13924-1
Laboratory Sample Delivery Group: Hobbs NM
Client Project/Site: Levey Well Hobbs, NM - 03B1417001

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
4/28/2022 12:24:59 PM

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

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-13924-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum Job ID: 880-13924-1
Project/Site: Levey Well Hobbs, NM - 03B1417001 SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Case Narrative

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

Job ID: 880-13924-1
SDG: Hobbs NM

Job ID: 880-13924-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-13924-1

Receipt
The sample was received on 4/20/2022 2:42 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 5.3°C

GC/MS VOA
Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-49808 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

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

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

Metals
Method 200.7: Due to the high concentration of calcium and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-49907 and analytical batch 860-50024 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

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

Client Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/20/22 08:40
Date Received: 04/20/22 14:42

Lab Sample ID: 880-13924-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000594**	**J**	0.00100	0.000214	mg/L			04/22/22 07:17	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/22/22 07:17	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/22/22 07:17	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/22/22 07:17	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/22/22 07:17	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/22/22 07:17	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/22/22 07:17	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/22/22 07:17	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/22/22 07:17	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/22/22 07:17	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/22/22 07:17	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/22/22 07:17	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/22/22 07:17	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/22/22 07:17	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/22/22 07:17	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/22/22 07:17	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/22/22 07:17	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/22/22 07:17	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/22/22 07:17	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/22/22 07:17	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/22/22 07:17	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/22/22 07:17	1
Dichlorodifluoromethane	<0.000316	U *-	0.00100	0.000316	mg/L			04/22/22 07:17	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/22/22 07:17	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/22/22 07:17	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/22/22 07:17	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/22/22 07:17	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/22/22 07:17	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/22/22 07:17	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/22/22 07:17	1
Ethylbenzene	**0.00375**		0.00100	0.000515	mg/L			04/22/22 07:17	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/22/22 07:17	1
Isopropylbenzene	**0.00196**		0.00100	0.000161	mg/L			04/22/22 07:17	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/22/22 07:17	1
m,p-Xylenes	**0.0158**		0.0100	0.000330	mg/L			04/22/22 07:17	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/22/22 07:17	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/22/22 07:17	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/22/22 07:17	1
N-Propylbenzene	**0.000651**	**J**	0.00100	0.000179	mg/L			04/22/22 07:17	1
o-Xylene	**0.00212**		0.00100	0.000192	mg/L			04/22/22 07:17	1
p-Cymene (p-Isopropyltoluene)	**0.000239**	**J**	0.00100	0.000233	mg/L			04/22/22 07:17	1
sec-Butylbenzene	**0.000408**	**J**	0.00100	0.000199	mg/L			04/22/22 07:17	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/22/22 07:17	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/22/22 07:17	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/22/22 07:17	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/22/22 07:17	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/22/22 07:17	1
Toluene	**0.00776**		0.00100	0.000500	mg/L			04/22/22 07:17	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/22/22 07:17	1

Client Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/20/22 08:40
Date Received: 04/20/22 14:42

Lab Sample ID: 880-13924-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/22/22 07:17	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/22/22 07:17	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/22/22 07:17	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/22/22 07:17	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/22/22 07:17	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/22/22 07:17	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/22/22 07:17	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/22/22 07:17	1
1,2,4-Trimethylbenzene	**0.00643**		0.00100	0.000252	mg/L			04/22/22 07:17	1
1,3,5-Trimethylbenzene	**0.00156**		0.00100	0.000279	mg/L			04/22/22 07:17	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/22/22 07:17	1
Xylenes, Total	**0.0179**		0.0100	0.000330	mg/L			04/22/22 07:17	1
Total BTEX	**0.0300**		0.0100	0.000515	mg/L			04/22/22 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*04/22/22 07:17*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*04/22/22 07:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*		*04/22/22 07:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 117*		*04/22/22 07:17*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.496**	**J**	0.500	0.0711	mg/L			04/21/22 22:52	1
Nitrate as N	**0.268**		0.100	0.0391	mg/L			04/21/22 22:52	1
Chloride	**218**		0.500	0.200	mg/L			04/21/22 22:52	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/21/22 22:52	1
Fluoride	**0.651**		0.500	0.100	mg/L			04/21/22 22:52	1
Sulfate	**44.6**		0.500	0.109	mg/L			04/21/22 22:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**238**		10.0	1.47	mg/L		04/22/22 08:30	04/22/22 21:15	50
Magnesium	**48.7**		0.200	0.0500	mg/L		04/22/22 08:30	04/22/22 14:04	1
Potassium	**4.05**		0.500	0.107	mg/L		04/22/22 08:30	04/22/22 14:04	1
Sodium	**75.0**		0.500	0.0667	mg/L		04/22/22 08:30	04/22/22 14:04	1
SiO2	**63.4**		1.07	0.0781	mg/L		04/22/22 08:30	04/22/22 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-8.77**				%			04/28/22 11:14	1
Alkalinity	**686**		4.00	4.00	mg/L			04/22/22 14:00	1
Bicarbonate Alkalinity as CaCO3	**686**		4.00	4.00	mg/L			04/22/22 14:00	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/22/22 14:00	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			04/22/22 14:00	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			04/22/22 14:00	1
Total Dissolved Solids	**1260**		10.0	10.0	mg/L			04/21/22 18:35	1
pH	**6.6**	**HF**			SU			04/25/22 12:33	1
Temperature	**18.5**	**HF**			Celsius			04/25/22 12:33	1

Surrogate Summary

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

Job ID: 880-13924-1
SDG: Hobbs NM

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(74-124)	(75-131)	(63-144)	(80-117)
860-24771-C-1 MS	Matrix Spike	103	100	96	102
880-13924-1	Levey Well	99	101	97	100
LCS 860-49808/3	Lab Control Sample	102	102	96	101
LCSD 860-49808/4	Lab Control Sample Dup	99	101	96	100
MB 860-49808/9	Method Blank	100	100	96	102

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: 880-13924-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-49808/9
Matrix: Water
Analysis Batch: 49808

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/22/22 01:07	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/22/22 01:07	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/22/22 01:07	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/22/22 01:07	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/22/22 01:07	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/22/22 01:07	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/22/22 01:07	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/22/22 01:07	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/22/22 01:07	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/22/22 01:07	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/22/22 01:07	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/22/22 01:07	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/22/22 01:07	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/22/22 01:07	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/22/22 01:07	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/22/22 01:07	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/22/22 01:07	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/22/22 01:07	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/22/22 01:07	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/22/22 01:07	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/22/22 01:07	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/22/22 01:07	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/22/22 01:07	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/22/22 01:07	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/22/22 01:07	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/22/22 01:07	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/22/22 01:07	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/22/22 01:07	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/22/22 01:07	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/22/22 01:07	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/22/22 01:07	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/22/22 01:07	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/22/22 01:07	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/22/22 01:07	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/22/22 01:07	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/22/22 01:07	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/22/22 01:07	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/22/22 01:07	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/22/22 01:07	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/22/22 01:07	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/22/22 01:07	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/22/22 01:07	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/22/22 01:07	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/22/22 01:07	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/22/22 01:07	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/22/22 01:07	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/22/22 01:07	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/22/22 01:07	1

QC Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-49808/9
Matrix: Water
Analysis Batch: 49808

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/22/22 01:07	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/22/22 01:07	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/22/22 01:07	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/22/22 01:07	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/22/22 01:07	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/22/22 01:07	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/22/22 01:07	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/22/22 01:07	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/22/22 01:07	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/22/22 01:07	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/22/22 01:07	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/22/22 01:07	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/22/22 01:07	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			04/22/22 01:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*04/22/22 01:07*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*04/22/22 01:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*		*04/22/22 01:07*	*1*
Toluene-d8 (Surr)	*102*		*80 - 117*		*04/22/22 01:07*	*1*

Lab Sample ID: LCS 860-49808/3
Matrix: Water
Analysis Batch: 49808

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	0.04829		mg/L		97	66 - 142
Bromobenzene	0.0500	0.04622		mg/L		92	75 - 125
Bromochloromethane	0.0500	0.04665		mg/L		93	60 - 140
Bromodichloromethane	0.0500	0.04264		mg/L		85	75 - 125
Bromoform	0.0500	0.04197		mg/L		84	75 - 125
Bromomethane	0.0500	0.02998		mg/L		60	60 - 140
2-Butanone	0.250	0.2445		mg/L		98	60 - 140
Carbon tetrachloride	0.0500	0.04098		mg/L		82	62 - 125
Chlorobenzene	0.0500	0.04900		mg/L		98	60 - 133
Chloroethane	0.0500	0.04344		mg/L		87	60 - 140
Chloroform	0.0500	0.04823		mg/L		96	70 - 130
Chloromethane	0.0500	0.04012		mg/L		80	60 - 140
2-Chlorotoluene	0.0500	0.04526		mg/L		91	73 - 125
4-Chlorotoluene	0.0500	0.04924		mg/L		98	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04518		mg/L		90	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04644		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.04723		mg/L		94	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04788		mg/L		96	59 - 125
1,2-Dibromoethane	0.0500	0.04843		mg/L		97	73 - 125
1,2-Dichlorobenzene	0.0500	0.04927		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.04968		mg/L		99	75 - 125
1,4-Dichlorobenzene	0.0500	0.05002		mg/L		100	75 - 125

QC Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-49808/3
Matrix: Water
Analysis Batch: 49808

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.02948	*-	mg/L		59	70 - 130
1,1-Dichloroethane	0.0500	0.04998		mg/L		100	72 - 125
1,2-Dichloroethane	0.0500	0.04276		mg/L		86	68 - 127
1,1-Dichloroethene	0.0500	0.04457		mg/L		89	59 - 172
1,2-Dichloropropane	0.0500	0.04983		mg/L		100	74 - 125
1,3-Dichloropropane	0.0500	0.04902		mg/L		98	75 - 125
2,2-Dichloropropane	0.0500	0.04217		mg/L		84	75 - 125
1,1-Dichloropropene	0.0500	0.04791		mg/L		96	75 - 125
Ethylbenzene	0.0500	0.04803		mg/L		96	75 - 125
Hexachlorobutadiene	0.0500	0.04048		mg/L		81	75 - 125
Isopropylbenzene	0.0500	0.04431		mg/L		89	75 - 125
Methylene Chloride	0.0500	0.05033		mg/L		101	75 - 125
m,p-Xylenes	0.0500	0.04773		mg/L		95	75 - 125
MTBE	0.0500	0.04528		mg/L		91	65 - 135
Naphthalene	0.0500	0.04866		mg/L		97	70 - 130
n-Butylbenzene	0.0500	0.04490		mg/L		90	75 - 125
N-Propylbenzene	0.0500	0.04890		mg/L		98	75 - 125
o-Xylene	0.0500	0.04769		mg/L		95	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04438		mg/L		89	75 - 125
sec-Butylbenzene	0.0500	0.04538		mg/L		91	75 - 125
Styrene	0.0500	0.04828		mg/L		97	75 - 125
tert-Butylbenzene	0.0500	0.04488		mg/L		90	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04701		mg/L		94	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05057		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.04359		mg/L		87	71 - 125
Toluene	0.0500	0.04928		mg/L		99	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04607		mg/L		92	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04277		mg/L		86	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04771		mg/L		95	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04652		mg/L		93	75 - 135
1,1,1-Trichloroethane	0.0500	0.04547		mg/L		91	75 - 125
1,1,2-Trichloroethane	0.0500	0.04977		mg/L		100	75 - 127
Trichloroethene	0.0500	0.04418		mg/L		88	62 - 137
Trichlorofluoromethane	0.0500	0.03714		mg/L		74	60 - 140
1,2,3-Trichloropropane	0.0500	0.04837		mg/L		97	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04602		mg/L		92	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04874		mg/L		97	60 - 140
Vinyl chloride	0.0500	0.04352		mg/L		87	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*
Dibromofluoromethane (Surr)	*102*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
Toluene-d8 (Surr)	*101*		*80 - 117*

QC Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-49808/4
Matrix: Water
Analysis Batch: 49808

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	0.04814		mg/L		96	66 - 142	0	25
Bromobenzene			0.0500	0.04389		mg/L		88	75 - 125	5	25
Bromochloromethane			0.0500	0.04534		mg/L		91	60 - 140	3	25
Bromodichloromethane			0.0500	0.04284		mg/L		86	75 - 125	0	25
Bromoform			0.0500	0.04193		mg/L		84	75 - 125	0	25
Bromomethane			0.0500	0.03112		mg/L		62	60 - 140	4	25
2-Butanone			0.250	0.2547		mg/L		102	60 - 140	4	25
Carbon tetrachloride			0.0500	0.04187		mg/L		84	62 - 125	2	25
Chlorobenzene			0.0500	0.04772		mg/L		95	60 - 133	3	25
Chloroethane			0.0500	0.03894		mg/L		78	60 - 140	11	25
Chloroform			0.0500	0.04784		mg/L		96	70 - 130	1	25
Chloromethane			0.0500	0.04056		mg/L		81	60 - 140	1	25
2-Chlorotoluene			0.0500	0.04269		mg/L		85	73 - 125	6	25
4-Chlorotoluene			0.0500	0.04765		mg/L		95	74 - 125	3	25
cis-1,2-Dichloroethene			0.0500	0.04484		mg/L		90	75 - 125	1	25
cis-1,3-Dichloropropene			0.0500	0.04676		mg/L		94	74 - 125	1	25
Dibromochloromethane			0.0500	0.04608		mg/L		92	73 - 125	2	25
1,2-Dibromo-3-Chloropropane			0.0500	0.04892		mg/L		98	59 - 125	2	25
1,2-Dibromoethane			0.0500	0.04798		mg/L		96	73 - 125	1	25
1,2-Dichlorobenzene			0.0500	0.04793		mg/L		96	75 - 125	3	25
1,3-Dichlorobenzene			0.0500	0.04758		mg/L		95	75 - 125	4	25
1,4-Dichlorobenzene			0.0500	0.04761		mg/L		95	75 - 125	5	25
Dichlorodifluoromethane			0.0500	0.03148	*-	mg/L		63	70 - 130	7	25
1,1-Dichloroethane			0.0500	0.04925		mg/L		98	72 - 125	1	25
1,2-Dichloroethane			0.0500	0.04277		mg/L		86	68 - 127	0	25
1,1-Dichloroethene			0.0500	0.04536		mg/L		91	59 - 172	2	25
1,2-Dichloropropane			0.0500	0.05023		mg/L		100	74 - 125	1	25
1,3-Dichloropropane			0.0500	0.04777		mg/L		96	75 - 125	3	25
2,2-Dichloropropane			0.0500	0.04202		mg/L		84	75 - 125	0	25
1,1-Dichloropropene			0.0500	0.04814		mg/L		96	75 - 125	0	25
Ethylbenzene			0.0500	0.04807		mg/L		96	75 - 125	0	25
Hexachlorobutadiene			0.0500	0.04226		mg/L		85	75 - 125	4	25
Isopropylbenzene			0.0500	0.04395		mg/L		88	75 - 125	1	25
Methylene Chloride			0.0500	0.04890		mg/L		98	75 - 125	3	25
m,p-Xylenes			0.0500	0.04770		mg/L		95	75 - 125	0	25
MTBE			0.0500	0.04561		mg/L		91	65 - 135	1	25
Naphthalene			0.0500	0.04896		mg/L		98	70 - 130	1	25
n-Butylbenzene			0.0500	0.04491		mg/L		90	75 - 125	0	25
N-Propylbenzene			0.0500	0.04752		mg/L		95	75 - 125	3	25
o-Xylene			0.0500	0.04681		mg/L		94	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)			0.0500	0.04392		mg/L		88	75 - 125	1	25
sec-Butylbenzene			0.0500	0.04471		mg/L		89	75 - 125	1	25
Styrene			0.0500	0.04747		mg/L		95	75 - 125	2	25
tert-Butylbenzene			0.0500	0.04382		mg/L		88	75 - 125	2	25
1,1,1,2-Tetrachloroethane			0.0500	0.04574		mg/L		91	72 - 125	3	25
1,1,2,2-Tetrachloroethane			0.0500	0.04948		mg/L		99	74 - 125	2	25
Tetrachloroethene			0.0500	0.04327		mg/L		87	71 - 125	1	25
Toluene			0.0500	0.04852		mg/L		97	59 - 139	2	25

QC Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-49808/4
Matrix: Water
Analysis Batch: 49808

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	0.04587		mg/L		92	75 - 125	0	25
trans-1,3-Dichloropropene			0.0500	0.04227		mg/L		85	66 - 125	1	25
1,2,3-Trichlorobenzene			0.0500	0.04695		mg/L		94	75 - 137	2	25
1,2,4-Trichlorobenzene			0.0500	0.04519		mg/L		90	75 - 135	3	25
1,1,1-Trichloroethane			0.0500	0.04556		mg/L		91	75 - 125	0	25
1,1,2-Trichloroethane			0.0500	0.04897		mg/L		98	75 - 127	2	25
Trichloroethene			0.0500	0.04385		mg/L		88	62 - 137	1	25
Trichlorofluoromethane			0.0500	0.03992		mg/L		80	60 - 140	7	25
1,2,3-Trichloropropane			0.0500	0.04770		mg/L		95	75 - 125	1	25
1,2,4-Trimethylbenzene			0.0500	0.04399		mg/L		88	75 - 125	5	25
1,3,5-Trimethylbenzene			0.0500	0.04762		mg/L		95	60 - 140	2	25
Vinyl chloride			0.0500	0.04482		mg/L		90	60 - 140	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
Toluene-d8 (Surr)	*100*		*80 - 117*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-49697/3
Matrix: Water
Analysis Batch: 49697

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			04/20/22 23:25	1
Chloride	<0.200	U	0.500	0.200	mg/L			04/20/22 23:25	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/20/22 23:25	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/20/22 23:25	1

Lab Sample ID: MB 860-49697/87
Matrix: Water
Analysis Batch: 49697

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			04/21/22 17:13	1
Chloride	<0.200	U	0.500	0.200	mg/L			04/21/22 17:13	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/21/22 17:13	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/21/22 17:13	1

Lab Sample ID: LCS 860-49697/88
Matrix: Water
Analysis Batch: 49697

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			10.0	9.915		mg/L		99	90 - 110		
Chloride			10.0	9.985		mg/L		100	90 - 110		
Fluoride			10.0	10.28		mg/L		103	90 - 110		

QC Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-49697/88
Matrix: Water
Analysis Batch: 49697

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.04		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-49697/89
Matrix: Water
Analysis Batch: 49697

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	9.931		mg/L		99	90 - 110	0	20
Chloride	10.0	9.975		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.31		mg/L		103	90 - 110	0	20
Sulfate	10.0	10.06		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-49697/5
Matrix: Water
Analysis Batch: 49697

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	0.5857		mg/L		117	50 - 150
Chloride	0.500	0.5978		mg/L		120	50 - 150
Fluoride	0.500	0.5503		mg/L		110	50 - 150
Sulfate	0.500	0.5750		mg/L		115	50 - 150

Lab Sample ID: MB 860-49698/3
Matrix: Water
Analysis Batch: 49698

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			04/20/22 23:25	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/20/22 23:25	1

Lab Sample ID: MB 860-49698/45
Matrix: Water
Analysis Batch: 49698

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			04/21/22 08:11	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/21/22 08:11	1

Lab Sample ID: MB 860-49698/87
Matrix: Water
Analysis Batch: 49698

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			04/21/22 17:13	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/21/22 17:13	1

QC Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-49698/88
Matrix: Water
Analysis Batch: 49698

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	10.17		mg/L		102	80 - 120
Nitrite as N	5.00	5.277		mg/L		106	80 - 120

Lab Sample ID: LCSD 860-49698/89
Matrix: Water
Analysis Batch: 49698

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.17		mg/L		102	80 - 120	0	20
Nitrite as N	5.00	5.289		mg/L		106	80 - 120	0	20

Lab Sample ID: LLCS 860-49698/4
Matrix: Water
Analysis Batch: 49698

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	0.1230		mg/L		123	50 - 150
Nitrite as N	0.100	0.1061		mg/L		106	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-49907/1-A
Matrix: Water
Analysis Batch: 50024

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 49907

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293	mg/L		04/22/22 08:30	04/22/22 13:21	1
Magnesium	<0.0500	U	0.200	0.0500	mg/L		04/22/22 08:30	04/22/22 13:21	1
Potassium	<0.107	U	0.500	0.107	mg/L		04/22/22 08:30	04/22/22 13:21	1
Sodium	<0.0667	U	0.500	0.0667	mg/L		04/22/22 08:30	04/22/22 13:21	1
SiO2	<0.0781	U	1.07	0.0781	mg/L		04/22/22 08:30	04/22/22 13:21	1

Lab Sample ID: LCS 860-49907/2-A
Matrix: Water
Analysis Batch: 50024

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 49907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	23.86		mg/L		95	85 - 115
Magnesium	25.0	23.58		mg/L		94	85 - 115
Potassium	10.0	9.710		mg/L		97	85 - 115
Sodium	25.0	23.71		mg/L		95	85 - 115
SiO2	21.4	20.73		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-49907/3-A
Matrix: Water
Analysis Batch: 50024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 49907

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.50		mg/L		98	85 - 115	3	20
Magnesium	25.0	24.22		mg/L		97	85 - 115	3	20

QC Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-49907/3-A
Matrix: Water
Analysis Batch: 50024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 49907

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	10.0	9.974		mg/L		100	85 - 115	3	20
Sodium	25.0	24.37		mg/L		97	85 - 115	3	20
SiO2	21.4	21.28		mg/L		99	85 - 115	3	20

Lab Sample ID: LLCS 860-49907/4-A
Matrix: Water
Analysis Batch: 50024

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 49907

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2568		mg/L		128	50 - 150
Magnesium	0.200	0.1996	J	mg/L		100	50 - 150
Potassium	0.500	0.5742		mg/L		115	50 - 150
Sodium	0.500	0.5010		mg/L		100	50 - 150
SiO2	1.07	1.084		mg/L		101	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-50048/3
Matrix: Water
Analysis Batch: 50048

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			04/22/22 12:52	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/22/22 12:52	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/22/22 12:52	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			04/22/22 12:52	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			04/22/22 12:52	1

Lab Sample ID: LCS 860-50048/4
Matrix: Water
Analysis Batch: 50048

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	266.2		mg/L		106	85 - 115

Lab Sample ID: LCSD 860-50048/5
Matrix: Water
Analysis Batch: 50048

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	260.3		mg/L		104	85 - 115	2	20

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

Lab Sample ID: MB 860-49877/1
Matrix: Water
Analysis Batch: 49877

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			04/21/22 18:35	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-13924-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-49877/2
Matrix: Water
Analysis Batch: 49877

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	1032		mg/L		103	80 - 120		

Lab Sample ID: LCSD 860-49877/3
Matrix: Water
Analysis Batch: 49877

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	1021		mg/L		102	80 - 120	1	10

Lab Sample ID: 880-13924-1 DU
Matrix: Water
Analysis Batch: 49877

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

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1260			1284		mg/L				2	10

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-13924-1 DU
Matrix: Water
Analysis Batch: 50239

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

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.6	HF		6.6		SU				0.2	20
Temperature	18.5	HF		18.5		Celsius				0	20

QC Association Summary

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

Job ID: 880-13924-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 49808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total/NA	Water	8260C	
MB 860-49808/9	Method Blank	Total/NA	Water	8260C	
LCS 860-49808/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-49808/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 49697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total/NA	Water	300.0	
MB 860-49697/3	Method Blank	Total/NA	Water	300.0	
MB 860-49697/87	Method Blank	Total/NA	Water	300.0	
LCS 860-49697/88	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-49697/89	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-49697/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 49698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total/NA	Water	300.0	
MB 860-49698/3	Method Blank	Total/NA	Water	300.0	
MB 860-49698/45	Method Blank	Total/NA	Water	300.0	
MB 860-49698/87	Method Blank	Total/NA	Water	300.0	
LCS 860-49698/88	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-49698/89	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-49698/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 49907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-49907/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-49907/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-49907/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-49907/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 50024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	49907
MB 860-49907/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	49907
LCS 860-49907/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	49907
LCSD 860-49907/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	49907
LLCS 860-49907/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	49907

Analysis Batch: 50227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	49907

QC Association Summary

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

Job ID: 880-13924-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 49877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-49877/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-49877/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-49877/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-13924-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 50048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-50048/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-50048/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-50048/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 50239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-13924-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 50753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13924-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-13924-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/20/22 08:40
Date Received: 04/20/22 14:42

Lab Sample ID: 880-13924-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	49808	04/22/22 07:17	TTD	XEN STF
Total/NA	Analysis	300.0		1	49697	04/21/22 22:52	WP	XEN STF
Total/NA	Analysis	300.0		1	49698	04/21/22 22:52	WP	XEN STF
Total Recoverable	Prep	200.7			49907	04/22/22 08:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	50024	04/22/22 14:04	AV	XEN STF
Total Recoverable	Prep	200.7			49907	04/22/22 08:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	50227	04/22/22 21:15	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	50753	04/28/22 11:14	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	50048	04/22/22 14:00	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	49877	04/21/22 18:35	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	50239	04/25/22 12:33	ALL	XEN STF

Laboratory References:

XEN STF = 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: 880-13924-1
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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
8260C		Water	Total BTEX
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: 880-13924-1
SDG: Hobbs NM

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-13924-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13924-1	Levey Well	Water	04/20/22 08:40	04/20/22 14:42

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Chain of Custody

XENCO LABORATORIES
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) www.xenco.com

Work Order No: 13924

4/28/2022

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	210-219-8858 Email:	bjennings@ensolum.com /amarquez@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:	Aaron Marquez	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	5.4 5.3	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction F.	-1
Sample Custody Seals:	Yes No (N/A)	Total Contain.	

Sample Identification	Matrix	Date Sampled	Time Sampled	Dep.	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS
Levey Well	W	4.20.22	0840	-	7	✓	✓	X	X	X	X

ANALYSIS REQUEST

880-13924 Chain of Custody

Work Order Notes

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

Sample Comments

24 hr

CUSTODY SEAL
Date 4.20.2022
Signature

Thermo SCIENTIFIC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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		4/20/22	2		
3		14 42	4		

Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-13924-1
SDG Number: Hobbs NM

Login Number: 13924
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: 880-13924-1
SDG Number: Hobbs NM

Login Number: 13924
List Number: 2
Creator: Palmar, Pedro

List Source: Eurofins Houston
List Creation: 04/21/22 03:57 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-13925-1
Client Project/Site: South Hobbs - 03B1417002
Sampling Event: South Hobbs

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
4/28/2022 12:24:36 PM

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

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-13925-1

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Definitions/Glossary

Client: Ensolum Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Glossary

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

Case Narrative

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13925-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-13925-1

Receipt
The samples were received on 4/20/2022 2:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°C

GC/MS VOA
Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-2 (880-13925-2). Note: pH 6.

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

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

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

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

Client Sample Results

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13925-1
Date Collected: 04/20/22 10:00
Matrix: Water
Date Received: 04/20/22 14:42

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/21/22 17:36	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/21/22 17:36	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/21/22 17:36	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/21/22 17:36	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/21/22 17:36	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/21/22 17:36	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/21/22 17:36	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/21/22 17:36	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/21/22 17:36	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/21/22 17:36	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/21/22 17:36	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/21/22 17:36	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/21/22 17:36	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/21/22 17:36	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/21/22 17:36	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/21/22 17:36	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/21/22 17:36	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/21/22 17:36	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/21/22 17:36	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/21/22 17:36	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/21/22 17:36	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/21/22 17:36	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/21/22 17:36	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/21/22 17:36	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/21/22 17:36	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/21/22 17:36	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/21/22 17:36	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/21/22 17:36	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/21/22 17:36	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/21/22 17:36	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/21/22 17:36	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/21/22 17:36	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/21/22 17:36	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/21/22 17:36	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/21/22 17:36	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/21/22 17:36	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/21/22 17:36	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/21/22 17:36	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/21/22 17:36	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/21/22 17:36	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/21/22 17:36	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/21/22 17:36	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/21/22 17:36	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/21/22 17:36	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/21/22 17:36	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/21/22 17:36	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/21/22 17:36	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/21/22 17:36	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/21/22 17:36	1

Client Sample Results

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13925-1
Date Collected: 04/20/22 10:00
Matrix: Water
Date Received: 04/20/22 14:42

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/21/22 17:36	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/21/22 17:36	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/21/22 17:36	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/21/22 17:36	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/21/22 17:36	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/21/22 17:36	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/21/22 17:36	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/21/22 17:36	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/21/22 17:36	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/21/22 17:36	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/21/22 17:36	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/21/22 17:36	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			04/21/22 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*04/21/22 17:36*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*04/21/22 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*		*04/21/22 17:36*	*1*
Toluene-d8 (Surr)	*101*		*80 - 117*		*04/21/22 17:36*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.904	U	4.57	0.904	mg/L			04/07/22 07:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		04/22/22 12:12	04/22/22 15:08	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904	mg/L		04/22/22 12:12	04/22/22 15:08	1
OII Range Organics (Over C28-C36)	<0.872	U	4.57	0.872	mg/L		04/22/22 12:12	04/22/22 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 135*	*04/22/22 12:12*	*04/22/22 15:08*	*1*
o-Terphenyl	*94*		*70 - 135*	*04/22/22 12:12*	*04/22/22 15:08*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**173**		0.500	0.200	mg/L			04/21/22 23:17	1
Nitrate as N	**0.152**		0.100	0.0391	mg/L			04/21/22 23:17	1
Fluoride	**0.574**		0.500	0.100	mg/L			04/21/22 23:17	1
Nitrite as N	**0.176**		0.100	0.0293	mg/L			04/21/22 23:17	1
Sulfate	**42.4**		0.500	0.109	mg/L			04/21/22 23:17	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**362**		4.00	4.00	mg/L			04/22/22 14:10	1
Bicarbonate Alkalinity as CaCO3	**362**		4.00	4.00	mg/L			04/22/22 14:10	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/22/22 14:10	1
Carbon dioxide	**391**				mg/L			04/28/22 11:11	1
Carbon Dioxide, Free	**72.4**				mg/L			04/28/22 11:11	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13925-1
Date Collected: 04/20/22 10:00
Matrix: Water
Date Received: 04/20/22 14:42

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.0**	**HF**			SU			04/25/22 12:33	1
Temperature	**18.3**	**HF**			Celsius			04/25/22 12:33	1
Sulfide	<0.495	U	5.00	0.495	mg/L			04/22/22 21:00	1

Client Sample ID: MW-2
Lab Sample ID: 880-13925-2
Date Collected: 04/20/22 11:15
Matrix: Water
Date Received: 04/20/22 14:42

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0246**		0.00100	0.000214	mg/L			04/21/22 17:56	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/21/22 17:56	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/21/22 17:56	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/21/22 17:56	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/21/22 17:56	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/21/22 17:56	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/21/22 17:56	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/21/22 17:56	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/21/22 17:56	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/21/22 17:56	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/21/22 17:56	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/21/22 17:56	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/21/22 17:56	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/21/22 17:56	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/21/22 17:56	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/21/22 17:56	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/21/22 17:56	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/21/22 17:56	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/21/22 17:56	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/21/22 17:56	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/21/22 17:56	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/21/22 17:56	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/21/22 17:56	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/21/22 17:56	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/21/22 17:56	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/21/22 17:56	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/21/22 17:56	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/21/22 17:56	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/21/22 17:56	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/21/22 17:56	1
Ethylbenzene	**0.0157**		0.00100	0.000515	mg/L			04/21/22 17:56	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/21/22 17:56	1
Isopropylbenzene	**0.00439**		0.00100	0.000161	mg/L			04/21/22 17:56	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/21/22 17:56	1
m,p-Xylenes	**0.0994**		0.0100	0.000330	mg/L			04/21/22 17:56	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/21/22 17:56	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/21/22 17:56	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/21/22 17:56	1
N-Propylbenzene	**0.000555**	**J**	0.00100	0.000179	mg/L			04/21/22 17:56	1
o-Xylene	**0.0171**		0.00100	0.000192	mg/L			04/21/22 17:56	1

Client Sample Results

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

Job ID: 880-13925-1

Client Sample ID: MW-2

Date Collected: 04/20/22 11:15
Date Received: 04/20/22 14:42

Lab Sample ID: 880-13925-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
p-Cymene (p-Isopropyltoluene)	**0.000513**	**J**	0.00100	0.000233	mg/L			04/21/22 17:56	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/21/22 17:56	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/21/22 17:56	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/21/22 17:56	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/21/22 17:56	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/21/22 17:56	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/21/22 17:56	1
Toluene	**0.0126**		0.00100	0.000500	mg/L			04/21/22 17:56	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/21/22 17:56	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/21/22 17:56	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/21/22 17:56	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/21/22 17:56	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/21/22 17:56	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/21/22 17:56	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/21/22 17:56	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/21/22 17:56	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/21/22 17:56	1
1,2,4-Trimethylbenzene	**0.0224**		0.00100	0.000252	mg/L			04/21/22 17:56	1
1,3,5-Trimethylbenzene	**0.00580**		0.00100	0.000279	mg/L			04/21/22 17:56	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/21/22 17:56	1
Xylenes, Total	**0.117**		0.0100	0.000330	mg/L			04/21/22 17:56	1
Total BTEX	**0.169**		0.0100	0.000515	mg/L			04/21/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*04/21/22 17:56*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*04/21/22 17:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*		*04/21/22 17:56*	*1*
Toluene-d8 (Surr)	*99*		*80 - 117*		*04/21/22 17:56*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.06**	**J**	4.56	0.901	mg/L			04/07/22 07:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.06**	**J**	4.56	0.901	mg/L		04/22/22 12:12	04/22/22 14:49	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		04/22/22 12:12	04/22/22 14:49	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		04/22/22 12:12	04/22/22 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 135*	*04/22/22 12:12*	*04/22/22 14:49*	*1*
o-Terphenyl	*96*		*70 - 135*	*04/22/22 12:12*	*04/22/22 14:49*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**198**		0.500	0.200	mg/L			04/21/22 23:42	1
Nitrate as N	**0.966**		0.100	0.0391	mg/L			04/21/22 23:42	1
Fluoride	**0.174**	**J**	0.500	0.100	mg/L			04/21/22 23:42	1
Nitrite as N	**0.722**		0.100	0.0293	mg/L			04/21/22 23:42	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-13925-1

Client Sample ID: MW-2

Date Collected: 04/20/22 11:15
Date Received: 04/20/22 14:42

Lab Sample ID: 880-13925-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**121**		0.500	0.109	mg/L			04/21/22 23:42	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**1330**		4.00	4.00	mg/L			04/22/22 14:42	1
Bicarbonate Alkalinity as CaCO3	**1330**		4.00	4.00	mg/L			04/22/22 14:42	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/22/22 14:42	1
Carbon dioxide	**2230**				mg/L			04/28/22 11:11	1
Carbon Dioxide, Free	**1060**				mg/L			04/28/22 11:11	1
pH	**6.4**	**HF**			SU			04/25/22 12:33	1
Temperature	**18.6**	**HF**			Celsius			04/25/22 12:33	1
Sulfide	<0.495	U	5.00	0.495	mg/L			04/22/22 21:00	1

Surrogate Summary

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(74-124)	(75-131)	(63-144)	(80-117)
860-24771-C-2 MS	Matrix Spike	100	100	97	100
880-13925-1	MW-1	99	102	97	101
880-13925-2	MW-2	98	101	99	99
LCS 860-49703/4	Lab Control Sample	98	100	96	100
LCSD 860-49703/5	Lab Control Sample Dup	99	100	96	99
MB 860-49703/12	Method Blank	99	98	96	102

Surrogate Legend

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

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
880-13925-1	MW-1	88	94
880-13925-2	MW-2	85	96
LCS 860-49968/2-A	Lab Control Sample	103	93
LCSD 860-49968/3-A	Lab Control Sample Dup	103	91
MB 860-49968/1-A	Method Blank	85	94

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 880-13925-1

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

Lab Sample ID: MB 860-49703/12
Matrix: Water
Analysis Batch: 49703

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/21/22 11:34	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/21/22 11:34	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/21/22 11:34	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/21/22 11:34	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/21/22 11:34	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/21/22 11:34	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/21/22 11:34	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/21/22 11:34	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/21/22 11:34	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/21/22 11:34	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/21/22 11:34	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/21/22 11:34	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/21/22 11:34	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/21/22 11:34	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/21/22 11:34	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/21/22 11:34	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/21/22 11:34	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/21/22 11:34	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/21/22 11:34	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/21/22 11:34	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/21/22 11:34	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/21/22 11:34	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/21/22 11:34	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/21/22 11:34	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/21/22 11:34	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/21/22 11:34	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/21/22 11:34	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/21/22 11:34	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/21/22 11:34	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/21/22 11:34	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/21/22 11:34	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/21/22 11:34	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/21/22 11:34	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/21/22 11:34	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/21/22 11:34	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/21/22 11:34	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/21/22 11:34	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/21/22 11:34	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/21/22 11:34	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/21/22 11:34	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/21/22 11:34	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/21/22 11:34	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/21/22 11:34	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/21/22 11:34	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/21/22 11:34	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/21/22 11:34	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/21/22 11:34	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/21/22 11:34	1

QC Sample Results

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-49703/12
Matrix: Water
Analysis Batch: 49703

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/21/22 11:34	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/21/22 11:34	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/21/22 11:34	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/21/22 11:34	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/21/22 11:34	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/21/22 11:34	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/21/22 11:34	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/21/22 11:34	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/21/22 11:34	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/21/22 11:34	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/21/22 11:34	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/21/22 11:34	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/21/22 11:34	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			04/21/22 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*04/21/22 11:34*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 131*		*04/21/22 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*		*04/21/22 11:34*	*1*
Toluene-d8 (Surr)	*102*		*80 - 117*		*04/21/22 11:34*	*1*

Lab Sample ID: LCS 860-49703/4
Matrix: Water
Analysis Batch: 49703

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	0.04797		mg/L		96	66 - 142
Bromobenzene	0.0500	0.04280		mg/L		86	75 - 125
Bromochloromethane	0.0500	0.04473		mg/L		89	60 - 140
Bromodichloromethane	0.0500	0.04256		mg/L		85	75 - 125
Bromoform	0.0500	0.04286		mg/L		86	75 - 125
Bromomethane	0.0500	0.03775		mg/L		75	60 - 140
2-Butanone	0.250	0.2431		mg/L		97	60 - 140
Carbon tetrachloride	0.0500	0.04261		mg/L		85	62 - 125
Chlorobenzene	0.0500	0.04639		mg/L		93	60 - 133
Chloroethane	0.0500	0.04150		mg/L		83	60 - 140
Chloroform	0.0500	0.04686		mg/L		94	70 - 130
Chloromethane	0.0500	0.04500		mg/L		90	60 - 140
2-Chlorotoluene	0.0500	0.04617		mg/L		92	73 - 125
4-Chlorotoluene	0.0500	0.04595		mg/L		92	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04388		mg/L		88	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04681		mg/L		94	74 - 125
Dibromochloromethane	0.0500	0.04563		mg/L		91	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04353		mg/L		87	59 - 125
1,2-Dibromoethane	0.0500	0.04707		mg/L		94	73 - 125
1,2-Dichlorobenzene	0.0500	0.04585		mg/L		92	75 - 125
1,3-Dichlorobenzene	0.0500	0.04568		mg/L		91	75 - 125
1,4-Dichlorobenzene	0.0500	0.04649		mg/L		93	75 - 125

QC Sample Results

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

Job ID: 880-13925-1

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

Lab Sample ID: LCS 860-49703/4
Matrix: Water
Analysis Batch: 49703

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.04622		mg/L		92	70 - 130
1,1-Dichloroethane	0.0500	0.04775		mg/L		96	72 - 125
1,2-Dichloroethane	0.0500	0.04245		mg/L		85	68 - 127
1,1-Dichloroethene	0.0500	0.04499		mg/L		90	59 - 172
1,2-Dichloropropane	0.0500	0.04839		mg/L		97	74 - 125
1,3-Dichloropropane	0.0500	0.04776		mg/L		96	75 - 125
2,2-Dichloropropane	0.0500	0.04629		mg/L		93	75 - 125
1,1-Dichloropropene	0.0500	0.04715		mg/L		94	75 - 125
Ethylbenzene	0.0500	0.04686		mg/L		94	75 - 125
Hexachlorobutadiene	0.0500	0.04251		mg/L		85	75 - 125
Isopropylbenzene	0.0500	0.04322		mg/L		86	75 - 125
Methylene Chloride	0.0500	0.04824		mg/L		96	75 - 125
m,p-Xylenes	0.0500	0.04624		mg/L		92	75 - 125
MTBE	0.0500	0.04417		mg/L		88	65 - 135
Naphthalene	0.0500	0.04224		mg/L		84	70 - 130
n-Butylbenzene	0.0500	0.04354		mg/L		87	75 - 125
N-Propylbenzene	0.0500	0.04642		mg/L		93	75 - 125
o-Xylene	0.0500	0.04613		mg/L		92	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04284		mg/L		86	75 - 125
sec-Butylbenzene	0.0500	0.04331		mg/L		87	75 - 125
Styrene	0.0500	0.04687		mg/L		94	75 - 125
tert-Butylbenzene	0.0500	0.04277		mg/L		86	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04595		mg/L		92	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04675		mg/L		93	74 - 125
Tetrachloroethene	0.0500	0.04386		mg/L		88	71 - 125
Toluene	0.0500	0.04672		mg/L		93	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04566		mg/L		91	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04264		mg/L		85	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04227		mg/L		85	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04299		mg/L		86	75 - 135
1,1,1-Trichloroethane	0.0500	0.04528		mg/L		91	75 - 125
1,1,2-Trichloroethane	0.0500	0.04769		mg/L		95	75 - 127
Trichloroethene	0.0500	0.04413		mg/L		88	62 - 137
Trichlorofluoromethane	0.0500	0.04597		mg/L		92	60 - 140
1,2,3-Trichloropropane	0.0500	0.04631		mg/L		93	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04279		mg/L		86	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04638		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04804		mg/L		96	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
Toluene-d8 (Surr)	*100*		*80 - 117*

QC Sample Results

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

Job ID: 880-13925-1

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

Lab Sample ID: LCSD 860-49703/5
Matrix: Water
Analysis Batch: 49703

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	0.04368		mg/L		87	66 - 142	9	25
Bromobenzene			0.0500	0.03962		mg/L		79	75 - 125	8	25
Bromochloromethane			0.0500	0.04441		mg/L		89	60 - 140	1	25
Bromodichloromethane			0.0500	0.04005		mg/L		80	75 - 125	6	25
Bromoform			0.0500	0.04128		mg/L		83	75 - 125	4	25
Bromomethane			0.0500	0.03493		mg/L		70	60 - 140	8	25
2-Butanone			0.250	0.2581		mg/L		103	60 - 140	6	25
Carbon tetrachloride			0.0500	0.03829		mg/L		77	62 - 125	11	25
Chlorobenzene			0.0500	0.04285		mg/L		86	60 - 133	8	25
Chloroethane			0.0500	0.04223		mg/L		84	60 - 140	2	25
Chloroform			0.0500	0.04475		mg/L		90	70 - 130	5	25
Chloromethane			0.0500	0.04212		mg/L		84	60 - 140	7	25
2-Chlorotoluene			0.0500	0.04177		mg/L		84	73 - 125	10	25
4-Chlorotoluene			0.0500	0.04166		mg/L		83	74 - 125	10	25
cis-1,2-Dichloroethene			0.0500	0.04107		mg/L		82	75 - 125	7	25
cis-1,3-Dichloropropene			0.0500	0.04414		mg/L		88	74 - 125	6	25
Dibromochloromethane			0.0500	0.04401		mg/L		88	73 - 125	4	25
1,2-Dibromo-3-Chloropropane			0.0500	0.04702		mg/L		94	59 - 125	8	25
1,2-Dibromoethane			0.0500	0.04673		mg/L		93	73 - 125	1	25
1,2-Dichlorobenzene			0.0500	0.04219		mg/L		84	75 - 125	8	25
1,3-Dichlorobenzene			0.0500	0.04177		mg/L		84	75 - 125	9	25
1,4-Dichlorobenzene			0.0500	0.04182		mg/L		84	75 - 125	11	25
Dichlorodifluoromethane			0.0500	0.04004		mg/L		80	70 - 130	14	25
1,1-Dichloroethane			0.0500	0.04494		mg/L		90	72 - 125	6	25
1,2-Dichloroethane			0.0500	0.04087		mg/L		82	68 - 127	4	25
1,1-Dichloroethene			0.0500	0.04083		mg/L		82	59 - 172	10	25
1,2-Dichloropropane			0.0500	0.04576		mg/L		92	74 - 125	6	25
1,3-Dichloropropane			0.0500	0.04677		mg/L		94	75 - 125	2	25
2,2-Dichloropropane			0.0500	0.04073		mg/L		81	75 - 125	13	25
1,1-Dichloropropene			0.0500	0.04262		mg/L		85	75 - 125	10	25
Ethylbenzene			0.0500	0.04215		mg/L		84	75 - 125	11	25
Hexachlorobutadiene			0.0500	0.03766		mg/L		75	75 - 125	12	25
Isopropylbenzene			0.0500	0.03850		mg/L		77	75 - 125	12	25
Methylene Chloride			0.0500	0.04703		mg/L		94	75 - 125	3	25
m,p-Xylenes			0.0500	0.04209		mg/L		84	75 - 125	9	25
MTBE			0.0500	0.04505		mg/L		90	65 - 135	2	25
Naphthalene			0.0500	0.04265		mg/L		85	70 - 130	1	25
n-Butylbenzene			0.0500	0.03905		mg/L		78	75 - 125	11	25
N-Propylbenzene			0.0500	0.04178		mg/L		84	75 - 125	11	25
o-Xylene			0.0500	0.04177		mg/L		84	75 - 125	10	25
p-Cymene (p-Isopropyltoluene)			0.0500	0.03837		mg/L		77	75 - 125	11	25
sec-Butylbenzene			0.0500	0.03900		mg/L		78	75 - 125	10	25
Styrene			0.0500	0.04271		mg/L		85	75 - 125	9	25
tert-Butylbenzene			0.0500	0.03798		mg/L		76	75 - 125	12	25
1,1,1,2-Tetrachloroethane			0.0500	0.04294		mg/L		86	72 - 125	7	25
1,1,2,2-Tetrachloroethane			0.0500	0.04797		mg/L		96	74 - 125	3	25
Tetrachloroethene			0.0500	0.03889		mg/L		78	71 - 125	12	25
Toluene			0.0500	0.04323		mg/L		86	59 - 139	8	25

QC Sample Results

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

Job ID: 880-13925-1

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

Lab Sample ID: LCSD 860-49703/5
Matrix: Water
Analysis Batch: 49703

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	0.04163		mg/L		83	75 - 125	9	25
trans-1,3-Dichloropropene			0.0500	0.04083		mg/L		82	66 - 125	4	25
1,2,3-Trichlorobenzene			0.0500	0.04047		mg/L		81	75 - 137	4	25
1,2,4-Trichlorobenzene			0.0500	0.03989		mg/L		80	75 - 135	7	25
1,1,1-Trichloroethane			0.0500	0.04074		mg/L		81	75 - 125	11	25
1,1,2-Trichloroethane			0.0500	0.04744		mg/L		95	75 - 127	1	25
Trichloroethene			0.0500	0.03924		mg/L		78	62 - 137	12	25
Trichlorofluoromethane			0.0500	0.04023		mg/L		80	60 - 140	13	25
1,2,3-Trichloropropane			0.0500	0.04712		mg/L		94	75 - 125	2	25
1,2,4-Trimethylbenzene			0.0500	0.03879		mg/L		78	75 - 125	10	25
1,3,5-Trimethylbenzene			0.0500	0.04161		mg/L		83	60 - 140	11	25
Vinyl chloride			0.0500	0.04249		mg/L		85	60 - 140	12	25

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

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

Lab Sample ID: MB 860-49968/1-A
Matrix: Water
Analysis Batch: 49962

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49968

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		04/22/22 12:12	04/22/22 14:29	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		04/22/22 12:12	04/22/22 14:29	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		04/22/22 12:12	04/22/22 14:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 135*	*04/22/22 12:12*	*04/22/22 14:29*	*1*
o-Terphenyl	*94*		*70 - 135*	*04/22/22 12:12*	*04/22/22 14:29*	*1*

Lab Sample ID: LCS 860-49968/2-A
Matrix: Water
Analysis Batch: 49962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49968

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			99.8	106.9		mg/L		107	70 - 135		
Diesel Range Organics (Over C10-C28)			100	104.3		mg/L		104	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 135*
o-Terphenyl	*93*		*70 - 135*

QC Sample Results

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-49968/3-A
Matrix: Water
Analysis Batch: 49962

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49968

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.8	107.9		mg/L		108	70 - 135	1	35
Diesel Range Organics (Over C10-C28)			100	104.8		mg/L		105	70 - 135	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 135*
o-Terphenyl	*91*		*70 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-49697/3
Matrix: Water
Analysis Batch: 49697

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			04/20/22 23:25	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/20/22 23:25	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/20/22 23:25	1

Lab Sample ID: MB 860-49697/87
Matrix: Water
Analysis Batch: 49697

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			04/21/22 17:13	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/21/22 17:13	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/21/22 17:13	1

Lab Sample ID: LCS 860-49697/88
Matrix: Water
Analysis Batch: 49697

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.985		mg/L		100	90 - 110		
Fluoride			10.0	10.28		mg/L		103	90 - 110		
Sulfate			10.0	10.04		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-49697/89
Matrix: Water
Analysis Batch: 49697

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.975		mg/L		100	90 - 110	0	20
Fluoride			10.0	10.31		mg/L		103	90 - 110	0	20
Sulfate			10.0	10.06		mg/L		101	90 - 110	0	20

QC Sample Results

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-49697/5
Matrix: Water
Analysis Batch: 49697

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5978		mg/L		120	50 - 150
Fluoride	0.500	0.5503		mg/L		110	50 - 150
Sulfate	0.500	0.5750		mg/L		115	50 - 150

Lab Sample ID: MB 860-49698/3
Matrix: Water
Analysis Batch: 49698

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			04/20/22 23:25	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/20/22 23:25	1

Lab Sample ID: MB 860-49698/45
Matrix: Water
Analysis Batch: 49698

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			04/21/22 08:11	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/21/22 08:11	1

Lab Sample ID: MB 860-49698/87
Matrix: Water
Analysis Batch: 49698

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			04/21/22 17:13	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/21/22 17:13	1

Lab Sample ID: LCS 860-49698/88
Matrix: Water
Analysis Batch: 49698

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	10.17		mg/L		102	80 - 120
Nitrite as N	5.00	5.277		mg/L		106	80 - 120

Lab Sample ID: LCSD 860-49698/89
Matrix: Water
Analysis Batch: 49698

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.17		mg/L		102	80 - 120	0	20
Nitrite as N	5.00	5.289		mg/L		106	80 - 120	0	20

Lab Sample ID: LLCS 860-49698/4
Matrix: Water
Analysis Batch: 49698

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	0.1230		mg/L		123	50 - 150

QC Sample Results

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-49698/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 49698

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.100	0.1061		mg/L		106	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-50048/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 50048

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			04/22/22 12:52	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/22/22 12:52	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/22/22 12:52	1

Lab Sample ID: LCS 860-50048/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 50048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	266.2		mg/L		106	85 - 115

Lab Sample ID: LCSD 860-50048/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 50048

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	260.3		mg/L		104	85 - 115	2	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-50063/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 50063

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495	mg/L			04/22/22 21:00	1

Lab Sample ID: LCS 860-50063/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 50063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	50.0	45.80		mg/L		92	80 - 120

Lab Sample ID: LCSD 860-50063/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 50063

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	50.0	45.40		mg/L		91	80 - 120	1	20

QC Association Summary

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 49703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	8260C	
880-13925-2	MW-2	Total/NA	Water	8260C	
MB 860-49703/12	Method Blank	Total/NA	Water	8260C	
LCS 860-49703/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-49703/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 47915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	8015 NM	
880-13925-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 49962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	8015B NM	49968
880-13925-2	MW-2	Total/NA	Water	8015B NM	49968
MB 860-49968/1-A	Method Blank	Total/NA	Water	8015B NM	49968
LCS 860-49968/2-A	Lab Control Sample	Total/NA	Water	8015B NM	49968
LCSD 860-49968/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	49968

Prep Batch: 49968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-13925-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-49968/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-49968/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-49968/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 49697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	300.0	
880-13925-2	MW-2	Total/NA	Water	300.0	
MB 860-49697/3	Method Blank	Total/NA	Water	300.0	
MB 860-49697/87	Method Blank	Total/NA	Water	300.0	
LCS 860-49697/88	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-49697/89	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-49697/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 49698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	300.0	
880-13925-2	MW-2	Total/NA	Water	300.0	
MB 860-49698/3	Method Blank	Total/NA	Water	300.0	
MB 860-49698/45	Method Blank	Total/NA	Water	300.0	
MB 860-49698/87	Method Blank	Total/NA	Water	300.0	
LCS 860-49698/88	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-49698/89	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-49698/4	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

General Chemistry

Analysis Batch: 50048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	SM 2320B	
880-13925-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-50048/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-50048/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-50048/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 50063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-13925-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-50063/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-50063/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-50063/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 50239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-13925-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 50752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13925-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-13925-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-13925-1
Date Collected: 04/20/22 10:00
Matrix: Water
Date Received: 04/20/22 14:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	49703	04/21/22 17:36	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	47915	04/07/22 07:56	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			49968	04/22/22 12:12	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	49962	04/22/22 15:08	SAR	XEN STF
Total/NA	Analysis	300.0		1	49697	04/21/22 23:17	WP	XEN STF
Total/NA	Analysis	300.0		1	49698	04/21/22 23:17	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	50048	04/22/22 14:10	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	50752	04/28/22 11:11	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	50239	04/25/22 12:33	ALL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	50063	04/22/22 21:00	YGG	XEN STF

Client Sample ID: MW-2
Lab Sample ID: 880-13925-2
Date Collected: 04/20/22 11:15
Matrix: Water
Date Received: 04/20/22 14:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	49703	04/21/22 17:56	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	47915	04/07/22 07:56	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			49968	04/22/22 12:12	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	49962	04/22/22 14:49	SAR	XEN STF
Total/NA	Analysis	300.0		1	49697	04/21/22 23:42	WP	XEN STF
Total/NA	Analysis	300.0		1	49698	04/21/22 23:42	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	50048	04/22/22 14:42	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	50752	04/28/22 11:11	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	50239	04/25/22 12:33	ALL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	50063	04/22/22 21:00	YGG	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
8260C		Water	Total BTEX
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

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

Protocol References:

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

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

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

Laboratory References:

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

Sample Summary

Client: Ensolum
Job ID: 880-13925-1
Project/Site: South Hobbs - 03B1417002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13925-1	MW-1	Water	04/20/22 10:00	04/20/22 14:42
880-13925-2	MW-2	Water	04/20/22 11:15	04/20/22 14:42

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Chain of Custody

XENCO LABORATORIES

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) www.xenco.com Page 1 of 1

Work Order No: 13925

4/28/2022

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

Work Order Comments

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

Project Name.	South Hobbs	Turn Around	
Project Number:	03B1417002	Routine ☐	
P.O. Number:	03B1417002	Rush 24 Hr	
Sampler's Name:	~~Shane Diller~~ Aaron Marquez AM	Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	5.4/5.3	Thermometer ID	IR8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Dissolved Carbon Dioxide 4500 CO2 c	Dissovled Sulfide SW-846 #376.2	VOC SW-846 #8260	TPH EPA Method #8015	Chloride EPA Method #846 300	pH EPA SW-846 Method 150.1
MW-1	GW	4-20-22	1000	75'	7	X	X	X	X	X	X
MW-2	GW	4-20-22	1115	85'	7	X	X	X	X	X	X

Work Order Notes

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

Sample Comments

24 Hr

NF F AAM 4-20-22

880-13925 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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		4/20/22 14:42	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

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Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-13925-1

Login Number: 13925 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-13925-1

Login Number: 13925
List Number: 2
Creator: Palmar, Pedro

List Source: Eurofins Houston
List Creation: 04/21/22 03:57 PM

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

eurofins | Environment Testing America



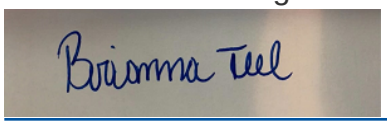
ANALYTICAL REPORT

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

Laboratory Job ID: 880-14228-1
Laboratory Sample Delivery Group: Hobbs NM
Client Project/Site: Levey Well Hobbs, NM - 03B1417001

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings



Authorized for release by:
5/5/2022 3:00:23 PM
Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

Designee for

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

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

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

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Released to Imaging: 3/20/2024 4:29:15 PM

Definitions/Glossary

Client: Ensolum Job ID: 880-14228-1
Project/Site: Levey Well Hobbs, NM - 03B1417001 SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Definitions/Glossary

Client: Ensolum Job ID: 880-14228-1
Project/Site: Levey Well Hobbs, NM - 03B1417001 SDG: Hobbs NM

Glossary (Continued)

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

Case Narrative

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

Job ID: 880-14228-1
SDG: Hobbs NM

Job ID: 880-14228-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-14228-1

Receipt
The sample was received on 4/28/2022 4:04 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC/MS VOA
Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-51033 were outside control limits. The associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-51291 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The method blank for analytical batch 860-50897 contained Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-51292 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The method blank for analytical batch 860-51292 contained Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to failing QC for Fluoride : Levey Well (880-14228-1).

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

Metals
Method 200.7: Due to the high concentration of calcium and magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-51166 and analytical batch 860-51521 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

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

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Client Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/28/22 09:00
Date Received: 04/28/22 16:04

Lab Sample ID: 880-14228-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00151**		0.00100	0.000214	mg/L			04/30/22 15:46	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/30/22 15:46	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/30/22 15:46	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/30/22 15:46	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/30/22 15:46	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/30/22 15:46	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/30/22 15:46	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/30/22 15:46	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/30/22 15:46	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/30/22 15:46	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/30/22 15:46	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/30/22 15:46	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/30/22 15:46	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/30/22 15:46	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/30/22 15:46	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/30/22 15:46	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/30/22 15:46	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/30/22 15:46	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/30/22 15:46	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/30/22 15:46	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/30/22 15:46	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/30/22 15:46	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/30/22 15:46	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/30/22 15:46	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/30/22 15:46	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/30/22 15:46	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/30/22 15:46	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/30/22 15:46	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/30/22 15:46	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/30/22 15:46	1
Ethylbenzene	**0.00540**		0.00100	0.000515	mg/L			04/30/22 15:46	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 15:46	1
Isopropylbenzene	**0.00238**		0.00100	0.000161	mg/L			04/30/22 15:46	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/30/22 15:46	1
m,p-Xylenes	**0.0207**		0.0100	0.000330	mg/L			04/30/22 15:46	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/30/22 15:46	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/30/22 15:46	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/30/22 15:46	1
N-Propylbenzene	**0.00133**		0.00100	0.000179	mg/L			04/30/22 15:46	1
o-Xylene	**0.00323**		0.00100	0.000192	mg/L			04/30/22 15:46	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/30/22 15:46	1
sec-Butylbenzene	**0.000523**	**J**	0.00100	0.000199	mg/L			04/30/22 15:46	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/30/22 15:46	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/30/22 15:46	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/30/22 15:46	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/30/22 15:46	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/30/22 15:46	1
Toluene	**0.0112**		0.00100	0.000500	mg/L			04/30/22 15:46	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/30/22 15:46	1

Client Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 04/28/22 09:00
Date Received: 04/28/22 16:04

Lab Sample ID: 880-14228-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/30/22 15:46	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 15:46	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 15:46	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/30/22 15:46	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/30/22 15:46	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/30/22 15:46	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/30/22 15:46	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/30/22 15:46	1
1,2,4-Trimethylbenzene	**0.00733**		0.00100	0.000252	mg/L			04/30/22 15:46	1
1,3,5-Trimethylbenzene	**0.00242**		0.00100	0.000279	mg/L			04/30/22 15:46	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/30/22 15:46	1
Xylenes, Total	**0.0239**		0.0100	0.000330	mg/L			04/30/22 15:46	1
Total BTEX	**0.0421**		0.0100	0.000214	mg/L			04/30/22 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*74 - 124*		*04/30/22 15:46*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*04/30/22 15:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*63 - 144*		*04/30/22 15:46*	*1*
Toluene-d8 (Surr)	*105*		*80 - 117*		*04/30/22 15:46*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.477**	**J**	0.500	0.0711	mg/L			04/29/22 19:20	1
Nitrate as N	**0.104**		0.100	0.0391	mg/L			04/29/22 19:20	1
Chloride	**214**		0.500	0.200	mg/L			04/29/22 19:20	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/29/22 19:20	1
Fluoride	**0.690**		0.500	0.100	mg/L			05/03/22 17:43	1
Sulfate	**43.2**		0.500	0.109	mg/L			04/29/22 19:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**272**		10.0	1.47	mg/L		05/02/22 11:00	05/04/22 02:57	50
Magnesium	**55.4**		0.200	0.0500	mg/L		05/02/22 11:00	05/04/22 01:05	1
Potassium	**4.43**		0.500	0.107	mg/L		05/02/22 11:00	05/04/22 01:05	1
Sodium	**84.3**		0.500	0.0667	mg/L		05/02/22 11:00	05/04/22 01:05	1
SiO2	**68.4**		1.07	0.0781	mg/L		05/02/22 11:00	05/04/22 01:05	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.11**				%			05/02/22 10:20	1
Alkalinity	**658**		4.00	4.00	mg/L			05/02/22 12:25	1
Bicarbonate Alkalinity as CaCO3	**658**		4.00	4.00	mg/L			05/02/22 12:25	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/02/22 12:25	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			05/02/22 12:25	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			05/02/22 12:25	1
Total Dissolved Solids	**1140**		10.0	10.0	mg/L			04/29/22 17:41	1
pH	**6.8**	**HF**			SU			04/30/22 15:39	1
Temperature	**20.0**	**HF**			Celsius			04/30/22 15:39	1

Surrogate Summary

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

Job ID: 880-14228-1
SDG: Hobbs NM

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(74-124)	(75-131)	(63-144)	(80-117)
880-14136-A-1 MS	Matrix Spike	104	107	117	104
880-14228-1	Levey Well	106	106	121	105
LCS 860-51033/3	Lab Control Sample	103	107	117	103
LCSD 860-51033/4	Lab Control Sample Dup	105	106	118	104
MB 860-51033/9	Method Blank	105	108	121	104

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: 880-14228-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-51033/9
Matrix: Water
Analysis Batch: 51033

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/30/22 13:02	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/30/22 13:02	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/30/22 13:02	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/30/22 13:02	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/30/22 13:02	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/30/22 13:02	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/30/22 13:02	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/30/22 13:02	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/30/22 13:02	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/30/22 13:02	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/30/22 13:02	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/30/22 13:02	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/30/22 13:02	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/30/22 13:02	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/30/22 13:02	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/30/22 13:02	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/30/22 13:02	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/30/22 13:02	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/30/22 13:02	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/30/22 13:02	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/30/22 13:02	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/30/22 13:02	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/30/22 13:02	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/30/22 13:02	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/30/22 13:02	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/30/22 13:02	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/30/22 13:02	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/30/22 13:02	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/30/22 13:02	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/30/22 13:02	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/30/22 13:02	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 13:02	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/30/22 13:02	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/30/22 13:02	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/30/22 13:02	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/30/22 13:02	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/30/22 13:02	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/30/22 13:02	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/30/22 13:02	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/30/22 13:02	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/30/22 13:02	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/30/22 13:02	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/30/22 13:02	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/30/22 13:02	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/30/22 13:02	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/30/22 13:02	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/30/22 13:02	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/30/22 13:02	1

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-51033/9
Matrix: Water
Analysis Batch: 51033

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/30/22 13:02	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/30/22 13:02	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 13:02	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 13:02	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/30/22 13:02	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/30/22 13:02	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/30/22 13:02	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/30/22 13:02	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/30/22 13:02	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/30/22 13:02	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/30/22 13:02	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/30/22 13:02	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/30/22 13:02	1
Total BTEX	<0.000214	U	0.0100	0.000214	mg/L			04/30/22 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*		*04/30/22 13:02*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 131*		*04/30/22 13:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*63 - 144*		*04/30/22 13:02*	*1*
Toluene-d8 (Surr)	*104*		*80 - 117*		*04/30/22 13:02*	*1*

Lab Sample ID: LCS 860-51033/3
Matrix: Water
Analysis Batch: 51033

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	0.04617		mg/L		92	66 - 142
Bromobenzene	0.0500	0.04558		mg/L		91	75 - 125
Bromochloromethane	0.0500	0.04486		mg/L		90	60 - 140
Bromodichloromethane	0.0500	0.04751		mg/L		95	75 - 125
Bromoform	0.0500	0.03771		mg/L		75	75 - 125
Bromomethane	0.0500	0.04453		mg/L		89	60 - 140
2-Butanone	0.250	0.2155		mg/L		86	60 - 140
Carbon tetrachloride	0.0500	0.05171		mg/L		103	62 - 125
Chlorobenzene	0.0500	0.04576		mg/L		92	60 - 133
Chloroethane	0.0500	0.04276		mg/L		86	60 - 140
Chloroform	0.0500	0.05221		mg/L		104	70 - 130
Chloromethane	0.0500	0.04073		mg/L		81	60 - 140
2-Chlorotoluene	0.0500	0.04896		mg/L		98	73 - 125
4-Chlorotoluene	0.0500	0.04935		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05088		mg/L		102	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04590		mg/L		92	74 - 125
Dibromochloromethane	0.0500	0.04154		mg/L		83	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03550		mg/L		71	59 - 125
1,2-Dibromoethane	0.0500	0.04291		mg/L		86	73 - 125
1,2-Dichlorobenzene	0.0500	0.04637		mg/L		93	75 - 125
1,3-Dichlorobenzene	0.0500	0.04559		mg/L		91	75 - 125
1,4-Dichlorobenzene	0.0500	0.04590		mg/L		92	75 - 125

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-51033/3
Matrix: Water
Analysis Batch: 51033

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.04128		mg/L		83	70 - 130
1,1-Dichloroethane	0.0500	0.04690		mg/L		94	72 - 125
1,2-Dichloroethane	0.0500	0.05259		mg/L		105	68 - 127
1,1-Dichloroethene	0.0500	0.04635		mg/L		93	59 - 172
1,2-Dichloropropane	0.0500	0.04732		mg/L		95	74 - 125
1,3-Dichloropropane	0.0500	0.04664		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05158		mg/L		103	75 - 125
1,1-Dichloropropene	0.0500	0.04974		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.04684		mg/L		94	75 - 125
Hexachlorobutadiene	0.0500	0.04740		mg/L		95	75 - 125
Isopropylbenzene	0.0500	0.04598		mg/L		92	75 - 125
Methylene Chloride	0.0500	0.04306		mg/L		86	75 - 125
m,p-Xylenes	0.0500	0.04665		mg/L		93	75 - 125
MTBE	0.0500	0.04634		mg/L		93	65 - 135
Naphthalene	0.0500	0.04193		mg/L		84	70 - 130
n-Butylbenzene	0.0500	0.04741		mg/L		95	75 - 125
N-Propylbenzene	0.0500	0.04770		mg/L		95	75 - 125
o-Xylene	0.0500	0.04694		mg/L		94	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04643		mg/L		93	75 - 125
sec-Butylbenzene	0.0500	0.04718		mg/L		94	75 - 125
Styrene	0.0500	0.04408		mg/L		88	75 - 125
tert-Butylbenzene	0.0500	0.04715		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04462		mg/L		89	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04560		mg/L		91	74 - 125
Tetrachloroethene	0.0500	0.04452		mg/L		89	71 - 125
Toluene	0.0500	0.04535		mg/L		91	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04461		mg/L		89	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04694		mg/L		94	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04436		mg/L		89	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04387		mg/L		88	75 - 135
1,1,1-Trichloroethane	0.0500	0.05125		mg/L		103	75 - 125
1,1,2-Trichloroethane	0.0500	0.04669		mg/L		93	75 - 127
Trichloroethene	0.0500	0.04347		mg/L		87	62 - 137
Trichlorofluoromethane	0.0500	0.05338		mg/L		107	60 - 140
1,2,3-Trichloropropane	0.0500	0.04602		mg/L		92	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04858		mg/L		97	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04710		mg/L		94	60 - 140
Vinyl chloride	0.0500	0.04243		mg/L		85	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*107*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*117*		*63 - 144*
Toluene-d8 (Surr)	*103*		*80 - 117*

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-51033/4
Matrix: Water
Analysis Batch: 51033

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	0.04586		mg/L		92	66 - 142	1	25
Bromobenzene			0.0500	0.04561		mg/L		91	75 - 125	0	25
Bromochloromethane			0.0500	0.04370		mg/L		87	60 - 140	3	25
Bromodichloromethane			0.0500	0.04670		mg/L		93	75 - 125	2	25
Bromoform			0.0500	0.03895		mg/L		78	75 - 125	3	25
Bromomethane			0.0500	0.04674		mg/L		93	60 - 140	5	25
2-Butanone			0.250	0.2373		mg/L		95	60 - 140	10	25
Carbon tetrachloride			0.0500	0.04988		mg/L		100	62 - 125	4	25
Chlorobenzene			0.0500	0.04475		mg/L		90	60 - 133	2	25
Chloroethane			0.0500	0.04548		mg/L		91	60 - 140	6	25
Chloroform			0.0500	0.05103		mg/L		102	70 - 130	2	25
Chloromethane			0.0500	0.04390		mg/L		88	60 - 140	7	25
2-Chlorotoluene			0.0500	0.04884		mg/L		98	73 - 125	0	25
4-Chlorotoluene			0.0500	0.04951		mg/L		99	74 - 125	0	25
cis-1,2-Dichloroethene			0.0500	0.04984		mg/L		100	75 - 125	2	25
cis-1,3-Dichloropropene			0.0500	0.04569		mg/L		91	74 - 125	0	25
Dibromochloromethane			0.0500	0.04235		mg/L		85	73 - 125	2	25
1,2-Dibromo-3-Chloropropane			0.0500	0.03991		mg/L		80	59 - 125	12	25
1,2-Dibromoethane			0.0500	0.04450		mg/L		89	73 - 125	4	25
1,2-Dichlorobenzene			0.0500	0.04727		mg/L		95	75 - 125	2	25
1,3-Dichlorobenzene			0.0500	0.04583		mg/L		92	75 - 125	1	25
1,4-Dichlorobenzene			0.0500	0.04600		mg/L		92	75 - 125	0	25
Dichlorodifluoromethane			0.0500	0.04438		mg/L		89	70 - 130	7	25
1,1-Dichloroethane			0.0500	0.04585		mg/L		92	72 - 125	2	25
1,2-Dichloroethane			0.0500	0.05248		mg/L		105	68 - 127	0	25
1,1-Dichloroethene			0.0500	0.04468		mg/L		89	59 - 172	4	25
1,2-Dichloropropane			0.0500	0.04696		mg/L		94	74 - 125	1	25
1,3-Dichloropropane			0.0500	0.04756		mg/L		95	75 - 125	2	25
2,2-Dichloropropane			0.0500	0.05075		mg/L		101	75 - 125	2	25
1,1-Dichloropropene			0.0500	0.04731		mg/L		95	75 - 125	5	25
Ethylbenzene			0.0500	0.04627		mg/L		93	75 - 125	1	25
Hexachlorobutadiene			0.0500	0.04891		mg/L		98	75 - 125	3	25
Isopropylbenzene			0.0500	0.04493		mg/L		90	75 - 125	2	25
Methylene Chloride			0.0500	0.04205		mg/L		84	75 - 125	2	25
m,p-Xylenes			0.0500	0.04565		mg/L		91	75 - 125	2	25
MTBE			0.0500	0.04731		mg/L		95	65 - 135	2	25
Naphthalene			0.0500	0.04741		mg/L		95	70 - 130	12	25
n-Butylbenzene			0.0500	0.04837		mg/L		97	75 - 125	2	25
N-Propylbenzene			0.0500	0.04767		mg/L		95	75 - 125	0	25
o-Xylene			0.0500	0.04641		mg/L		93	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)			0.0500	0.04691		mg/L		94	75 - 125	1	25
sec-Butylbenzene			0.0500	0.04757		mg/L		95	75 - 125	1	25
Styrene			0.0500	0.04336		mg/L		87	75 - 125	2	25
tert-Butylbenzene			0.0500	0.04706		mg/L		94	75 - 125	0	25
1,1,1,2-Tetrachloroethane			0.0500	0.04408		mg/L		88	72 - 125	1	25
1,1,2,2-Tetrachloroethane			0.0500	0.05033		mg/L		101	74 - 125	10	25
Tetrachloroethene			0.0500	0.04326		mg/L		87	71 - 125	3	25
Toluene			0.0500	0.04411		mg/L		88	59 - 139	3	25

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-51033/4
Matrix: Water
Analysis Batch: 51033

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	0.04338		mg/L		87	75 - 125	3	25
trans-1,3-Dichloropropene			0.0500	0.04717		mg/L		94	66 - 125	0	25
1,2,3-Trichlorobenzene			0.0500	0.04844		mg/L		97	75 - 137	9	25
1,2,4-Trichlorobenzene			0.0500	0.04665		mg/L		93	75 - 135	6	25
1,1,1-Trichloroethane			0.0500	0.05035		mg/L		101	75 - 125	2	25
1,1,2-Trichloroethane			0.0500	0.04745		mg/L		95	75 - 127	2	25
Trichloroethene			0.0500	0.04270		mg/L		85	62 - 137	2	25
Trichlorofluoromethane			0.0500	0.05615		mg/L		112	60 - 140	5	25
1,2,3-Trichloropropane			0.0500	0.04963		mg/L		99	75 - 125	8	25
1,2,4-Trimethylbenzene			0.0500	0.04831		mg/L		97	75 - 125	1	25
1,3,5-Trimethylbenzene			0.0500	0.04748		mg/L		95	60 - 140	1	25
Vinyl chloride			0.0500	0.04539		mg/L		91	60 - 140	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*
Dibromofluoromethane (Surr)	*106*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*118*		*63 - 144*
Toluene-d8 (Surr)	*104*		*80 - 117*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-50896/3
Matrix: Water
Analysis Batch: 50896

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			04/29/22 09:51	1
Chloride	<0.200	U	0.500	0.200	mg/L			04/29/22 09:51	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/29/22 09:51	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/29/22 09:51	1

Lab Sample ID: MB 860-50896/39
Matrix: Water
Analysis Batch: 50896

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			04/29/22 16:58	1
Chloride	<0.200	U	0.500	0.200	mg/L			04/29/22 16:58	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/29/22 16:58	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/29/22 16:58	1

Lab Sample ID: LCS 860-50896/40
Matrix: Water
Analysis Batch: 50896

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	10.43		mg/L		104	90 - 110		
Chloride			10.0	10.52		mg/L		105	90 - 110		
Fluoride			10.0	10.84		mg/L		108	90 - 110		

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-50896/40
Matrix: Water
Analysis Batch: 50896

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.44		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-50896/41
Matrix: Water
Analysis Batch: 50896

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	10.0	10.62		mg/L		106	90 - 110	2	20
Chloride	10.0	10.77		mg/L		108	90 - 110	2	20
Sulfate	10.0	10.64		mg/L		106	90 - 110	2	20

Lab Sample ID: LLCS 860-50896/5
Matrix: Water
Analysis Batch: 50896

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	0.6008		mg/L		120	50 - 150
Chloride	0.500	0.6485		mg/L		130	50 - 150
Fluoride	0.500	0.6187		mg/L		124	50 - 150
Sulfate	0.500	0.5942		mg/L		119	50 - 150

Lab Sample ID: MB 860-50897/3
Matrix: Water
Analysis Batch: 50897

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			04/29/22 09:51	1
Nitrite as N	0.03548	J	0.100	0.0293	mg/L			04/29/22 09:51	1

Lab Sample ID: MB 860-50897/39
Matrix: Water
Analysis Batch: 50897

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			04/29/22 16:58	1
Nitrite as N	0.03387	J	0.100	0.0293	mg/L			04/29/22 16:58	1

Lab Sample ID: LCS 860-50897/40
Matrix: Water
Analysis Batch: 50897

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	10.25		mg/L		102	80 - 120
Nitrite as N	5.00	5.207		mg/L		104	80 - 120

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-50897/41
Matrix: Water
Analysis Batch: 50897

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	10.43		mg/L		104	80 - 120	2	20
Nitrite as N			5.00	5.304		mg/L		106	80 - 120	2	20

Lab Sample ID: LLCS 860-50897/4
Matrix: Water
Analysis Batch: 50897

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	0.1427		mg/L		143	50 - 150		
Nitrite as N			0.100	0.1342		mg/L		134	50 - 150		

Lab Sample ID: MB 860-51291/3
Matrix: Water
Analysis Batch: 51291

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			05/03/22 09:51	1
Chloride	<0.200	U	0.500	0.200	mg/L			05/03/22 09:51	1
Fluoride	<0.100	U	0.500	0.100	mg/L			05/03/22 09:51	1
Sulfate	<0.109	U	0.500	0.109	mg/L			05/03/22 09:51	1

Lab Sample ID: LCS 860-51291/6
Matrix: Water
Analysis Batch: 51291

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			10.0	9.263		mg/L		93	90 - 110		
Chloride			10.0	9.524		mg/L		95	90 - 110		
Fluoride			10.0	10.19		mg/L		102	90 - 110		
Sulfate			10.0	9.810		mg/L		98	90 - 110		

Lab Sample ID: LCSD 860-51291/7
Matrix: Water
Analysis Batch: 51291

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	9.323		mg/L		93	90 - 110	1	20
Chloride			10.0	9.465		mg/L		95	90 - 110	1	20
Fluoride			10.0	10.27		mg/L		103	90 - 110	1	20
Sulfate			10.0	9.807		mg/L		98	90 - 110	0	20

Lab Sample ID: LLCS 860-51291/5
Matrix: Water
Analysis Batch: 51291

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	0.6113		mg/L		122	50 - 150		
Chloride			0.500	0.5094		mg/L		102	50 - 150		
Fluoride			0.500	0.4735	J	mg/L		95	50 - 150		
Sulfate			0.500	0.4761	J	mg/L		95	50 - 150		

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-51292/3
Matrix: Water
Analysis Batch: 51292

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			05/03/22 09:51	1
Nitrite as N	0.05385	J	0.100	0.0293	mg/L			05/03/22 09:51	1

Lab Sample ID: LCS 860-51292/6
Matrix: Water
Analysis Batch: 51292

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	9.228		mg/L		92	80 - 120
Nitrite as N	5.00	5.137		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-51292/7
Matrix: Water
Analysis Batch: 51292

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	9.312		mg/L		93	80 - 120	1	20
Nitrite as N	5.00	5.189		mg/L		104	80 - 120	1	20

Lab Sample ID: LLCS 860-51292/5
Matrix: Water
Analysis Batch: 51292

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	0.500	0.4480		mg/L		90	50 - 150
Nitrite as N	0.500	0.5031		mg/L		101	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-51166/1-A
Matrix: Water
Analysis Batch: 51521

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 51166

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293	mg/L		05/02/22 11:00	05/04/22 00:51	1
Magnesium	<0.0500	U	0.200	0.0500	mg/L		05/02/22 11:00	05/04/22 00:51	1
Potassium	<0.107	U	0.500	0.107	mg/L		05/02/22 11:00	05/04/22 00:51	1
Sodium	<0.0667	U	0.500	0.0667	mg/L		05/02/22 11:00	05/04/22 00:51	1
SiO2	<0.0781	U	1.07	0.0781	mg/L		05/02/22 11:00	05/04/22 00:51	1

Lab Sample ID: LCS 860-51166/2-A
Matrix: Water
Analysis Batch: 51521

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 51166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	26.50		mg/L		106	85 - 115
Magnesium	25.0	26.31		mg/L		105	85 - 115
Potassium	10.0	10.84		mg/L		108	85 - 115
Sodium	25.0	26.65		mg/L		107	85 - 115
SiO2	21.4	22.12		mg/L		103	85 - 115

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCSD 860-51166/3-A
Matrix: Water
Analysis Batch: 51521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 51166

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium			25.0	26.45		mg/L		106	85 - 115	0	20
Magnesium			25.0	26.25		mg/L		105	85 - 115	0	20
Potassium			10.0	10.83		mg/L		108	85 - 115	0	20
Sodium			25.0	26.63		mg/L		107	85 - 115	0	20
SiO2			21.4	22.06		mg/L		103	85 - 115	0	20

Lab Sample ID: LLCS 860-51166/4-A
Matrix: Water
Analysis Batch: 51521

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 51166

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			0.200	0.2387		mg/L		119	50 - 150		
Magnesium			0.200	0.2068		mg/L		103	50 - 150		
Potassium			0.500	0.5284		mg/L		106	50 - 150		
Sodium			0.500	0.4882	J	mg/L		98	50 - 150		
SiO2			1.07	1.042	J	mg/L		97	50 - 150		

Lab Sample ID: 880-14228-1 MS
Matrix: Water
Analysis Batch: 51521

Client Sample ID: Levey Well
Prep Type: Total Recoverable
Prep Batch: 51166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	274	E	25.0	294.4	E 4	mg/L		83	70 - 130		
Magnesium	55.4		25.0	80.87	E	mg/L		102	70 - 130		
Potassium	4.43		10.0	15.74		mg/L		113	70 - 130		
Sodium	84.3		25.0	110.0		mg/L		103	70 - 130		
SiO2	68.4		21.4	89.93		mg/L		101	70 - 130		

Lab Sample ID: 880-14228-1 MSD
Matrix: Water
Analysis Batch: 51521

Client Sample ID: Levey Well
Prep Type: Total Recoverable
Prep Batch: 51166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	274	E	25.0	295.0	E 4	mg/L		85	70 - 130	0	20
Magnesium	55.4		25.0	81.06	E	mg/L		103	70 - 130	0	20
Potassium	4.43		10.0	15.77		mg/L		113	70 - 130	0	20
Sodium	84.3		25.0	110.5		mg/L		105	70 - 130	0	20
SiO2	68.4		21.4	90.16		mg/L		102	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-51250/3
Matrix: Water
Analysis Batch: 51250

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			05/02/22 11:55	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/02/22 11:55	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/02/22 11:55	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			05/02/22 11:55	1

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-51250/3
Matrix: Water
Analysis Batch: 51250

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			05/02/22 11:55	1

Lab Sample ID: LCS 860-51250/4
Matrix: Water
Analysis Batch: 51250

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			250	273.2		mg/L		109	85 - 115		

Lab Sample ID: LCSD 860-51250/5
Matrix: Water
Analysis Batch: 51250

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	271.8		mg/L		109	85 - 115	1	20

Lab Sample ID: 880-14228-1 DU
Matrix: Water
Analysis Batch: 51250

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

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	658			682.4		mg/L				4	20
Bicarbonate Alkalinity as CaCO3	658			682.4		mg/L				4	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 860-51016/1
Matrix: Water
Analysis Batch: 51016

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			04/29/22 16:52	1

Lab Sample ID: LCS 860-51016/2
Matrix: Water
Analysis Batch: 51016

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	1012		mg/L		101	80 - 120		

Lab Sample ID: LCSD 860-51016/3
Matrix: Water
Analysis Batch: 51016

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	1119		mg/L		112	80 - 120	10	10

QC Sample Results

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

Job ID: 880-14228-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-51016/4
Matrix: Water
Analysis Batch: 51016

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

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

QC Association Summary

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

Job ID: 880-14228-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 51033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total/NA	Water	8260C	
MB 860-51033/9	Method Blank	Total/NA	Water	8260C	
LCS 860-51033/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-51033/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 50896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total/NA	Water	300.0	
MB 860-50896/3	Method Blank	Total/NA	Water	300.0	
MB 860-50896/39	Method Blank	Total/NA	Water	300.0	
LCS 860-50896/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-50896/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-50896/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 50897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total/NA	Water	300.0	
MB 860-50897/3	Method Blank	Total/NA	Water	300.0	
MB 860-50897/39	Method Blank	Total/NA	Water	300.0	
LCS 860-50897/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-50897/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-50897/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 51291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total/NA	Water	300.0	
MB 860-51291/3	Method Blank	Total/NA	Water	300.0	
LCS 860-51291/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-51291/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-51291/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 51292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-51292/3	Method Blank	Total/NA	Water	300.0	
LCS 860-51292/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-51292/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-51292/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 51166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-51166/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-51166/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-51166/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-51166/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-14228-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-14228-1 MSD	Levey Well	Total Recoverable	Water	200.7	

QC Association Summary

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

Job ID: 880-14228-1
SDG: Hobbs NM

Metals

Analysis Batch: 51521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	51166
880-14228-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	51166
MB 860-51166/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	51166
LCS 860-51166/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	51166
LCSD 860-51166/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	51166
LLCS 860-51166/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	51166
880-14228-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	51166
880-14228-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	51166

General Chemistry

Analysis Batch: 51016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-51016/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-51016/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-51016/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-51016/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 51067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 51146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 51250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14228-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-51250/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-51250/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-51250/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-14228-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-14228-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Date Collected: 04/28/22 09:00
Date Received: 04/28/22 16:04

Lab Sample ID: 880-14228-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	51033	04/30/22 15:46	A1S	XEN STF
Total/NA	Analysis	300.0		1	51291	05/03/22 17:43	ANP	XEN STF
Total/NA	Analysis	300.0		1	50896	04/29/22 19:20	W1N	XEN STF
Total/NA	Analysis	300.0		1	50897	04/29/22 19:20	W1N	XEN STF
Total Recoverable	Prep	200.7			51166	05/02/22 11:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	51521	05/04/22 01:05	AV	XEN STF
Total Recoverable	Prep	200.7			51166	05/02/22 11:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	51521	05/04/22 02:57	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	51146	05/02/22 10:20	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	51250	05/02/22 12:25	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	51016	04/29/22 17:41	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	51067	04/30/22 15:39	ALL	XEN STF

Laboratory References:

XEN STF = 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: 880-14228-1
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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
8260C		Water	Total BTEX
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: 880-14228-1
SDG: Hobbs NM

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-14228-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14228-1	Levey Well	Water	04/28/22 09:00	04/28/22 16:04

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Chain of Custody

XENCO LABORATORIES

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

Work Order No: 14228

www.xenco.com Page 1 of 1

5/5/2022

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld Street, Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

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

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.2/3.0	Thermometer ID	
Received Intact:	(Yes) No		IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

880-14228 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS
Levey Well	W	4-28-22	0900	-	7	X	X	X	X	X	X

Work Order Notes

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

Sample Comments

24 hr

CUSTODY SEAL
Date 4-28-22
Signature

Thermo SCIENTIFIC

90009

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 Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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		4/28/22 16:04	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

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Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14228-1
SDG Number: Hobbs NM

Login Number: 14228
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: 880-14228-1
SDG Number: Hobbs NM

Login Number: 14228
List Number: 2
Creator: Palmar, Pedro

List Source: Eurofins Houston
List Creation: 04/29/22 03:32 PM

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

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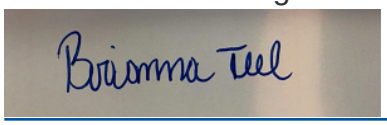
ANALYTICAL REPORT

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

Laboratory Job ID: 880-14229-1
Client Project/Site: South Hobbs - 03B1417002
Sampling Event: South Hobbs

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings



Authorized for release by:
5/4/2022 5:15:31 PM
Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

Designee for

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

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

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

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

Laboratory Job ID: 880-14229-1

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Definitions/Glossary

Client: Ensolum Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

Job ID: 880-14229-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-14229-1

Receipt
The samples were received on 4/28/2022 4:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC/MS VOA
Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-51033 were outside control limits. The associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 860-51020 and analytical batch 860-50934 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Due to the high concentration of Gasoline Range Organics (GRO)-C6-C10, the matrix spike (MS/) for preparation batch 860-51020 and analytical batch 860-50934 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-50896 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-51291 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The method blank for analytical batch 860-50897 contained Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: The method blank for analytical batch 860-51292 contained Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: Reanalysis of the following samples were performed outside of the analytical holding time due to failing QC for Fluoride : MW-1 (880-14229-1) and MW-2 (880-14229-2).

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.

Released to Imaging: 3/20/2024 4:29:15 PM

Client Sample Results

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

Job ID: 880-14229-1

Client Sample ID: MW-1

Date Collected: 04/28/22 10:00
Date Received: 04/28/22 16:04

Lab Sample ID: 880-14229-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/02/22 12:58	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			05/02/22 12:58	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			05/02/22 12:58	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			05/02/22 12:58	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			05/02/22 12:58	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			05/02/22 12:58	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			05/02/22 12:58	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			05/02/22 12:58	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			05/02/22 12:58	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			05/02/22 12:58	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			05/02/22 12:58	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			05/02/22 12:58	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			05/02/22 12:58	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			05/02/22 12:58	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			05/02/22 12:58	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			05/02/22 12:58	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			05/02/22 12:58	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			05/02/22 12:58	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			05/02/22 12:58	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			05/02/22 12:58	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			05/02/22 12:58	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			05/02/22 12:58	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			05/02/22 12:58	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			05/02/22 12:58	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			05/02/22 12:58	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			05/02/22 12:58	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			05/02/22 12:58	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			05/02/22 12:58	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			05/02/22 12:58	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			05/02/22 12:58	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/02/22 12:58	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			05/02/22 12:58	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			05/02/22 12:58	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			05/02/22 12:58	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/02/22 12:58	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			05/02/22 12:58	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			05/02/22 12:58	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			05/02/22 12:58	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			05/02/22 12:58	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/02/22 12:58	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			05/02/22 12:58	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			05/02/22 12:58	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			05/02/22 12:58	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			05/02/22 12:58	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			05/02/22 12:58	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			05/02/22 12:58	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			05/02/22 12:58	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/02/22 12:58	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			05/02/22 12:58	1

Client Sample Results

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-14229-1
Date Collected: 04/28/22 10:00
Matrix: Water
Date Received: 04/28/22 16:04

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			05/02/22 12:58	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			05/02/22 12:58	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			05/02/22 12:58	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			05/02/22 12:58	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			05/02/22 12:58	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			05/02/22 12:58	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			05/02/22 12:58	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			05/02/22 12:58	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			05/02/22 12:58	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			05/02/22 12:58	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			05/02/22 12:58	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/02/22 12:58	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/02/22 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*05/02/22 12:58*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 131*		*05/02/22 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 144*		*05/02/22 12:58*	*1*
Toluene-d8 (Surr)	*99*		*80 - 117*		*05/02/22 12:58*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.890	U	4.50	0.890	mg/L			04/27/22 18:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.890	U	4.50	0.890	mg/L		04/29/22 17:07	04/30/22 00:22	1
Diesel Range Organics (Over C10-C28)	<0.890	U	4.50	0.890	mg/L		04/29/22 17:07	04/30/22 00:22	1
OII Range Organics (Over C28-C36)	<0.859	U	4.50	0.859	mg/L		04/29/22 17:07	04/30/22 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 135*	*04/29/22 17:07*	*04/30/22 00:22*	*1*
o-Terphenyl	*99*		*70 - 135*	*04/29/22 17:07*	*04/30/22 00:22*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**136**		0.500	0.200	mg/L			04/29/22 19:32	1
Nitrate as N	**0.0700**	**J**	0.100	0.0391	mg/L			04/29/22 19:32	1
Fluoride	**0.608**		0.500	0.100	mg/L			05/03/22 18:25	1
Nitrite as N	**0.0717**	**J B**	0.100	0.0293	mg/L			04/29/22 19:32	1
Sulfate	**41.7**		0.500	0.109	mg/L			04/29/22 19:32	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		4.00	4.00	mg/L			05/02/22 12:45	1
Bicarbonate Alkalinity as CaCO3	**300**		4.00	4.00	mg/L			05/02/22 12:45	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/02/22 12:45	1
Carbon dioxide	**283**				mg/L			05/03/22 23:16	1
Carbon Dioxide, Free	**18.9**				mg/L			05/03/22 23:16	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-14229-1
Date Collected: 04/28/22 10:00
Matrix: Water
Date Received: 04/28/22 16:04

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.5**	**HF**			SU			04/30/22 15:39	1
Temperature	**19.9**	**HF**			Celsius			04/30/22 15:39	1
Sulfide	<0.495	U	5.00	0.495	mg/L			05/03/22 22:19	1

Client Sample ID: MW-2
Lab Sample ID: 880-14229-2
Date Collected: 04/28/22 11:00
Matrix: Water
Date Received: 04/28/22 16:04

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0384**		0.00100	0.000214	mg/L			04/30/22 15:05	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/30/22 15:05	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/30/22 15:05	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/30/22 15:05	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/30/22 15:05	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/30/22 15:05	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/30/22 15:05	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/30/22 15:05	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/30/22 15:05	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/30/22 15:05	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/30/22 15:05	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/30/22 15:05	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/30/22 15:05	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/30/22 15:05	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/30/22 15:05	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/30/22 15:05	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/30/22 15:05	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/30/22 15:05	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/30/22 15:05	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/30/22 15:05	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/30/22 15:05	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/30/22 15:05	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/30/22 15:05	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/30/22 15:05	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/30/22 15:05	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/30/22 15:05	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/30/22 15:05	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/30/22 15:05	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/30/22 15:05	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/30/22 15:05	1
Ethylbenzene	**0.0617**		0.00100	0.000515	mg/L			04/30/22 15:05	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 15:05	1
Isopropylbenzene	**0.0222**		0.00100	0.000161	mg/L			04/30/22 15:05	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/30/22 15:05	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/30/22 15:05	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/30/22 15:05	1
n-Butylbenzene	**0.00162**		0.00100	0.000286	mg/L			04/30/22 15:05	1
N-Propylbenzene	**0.00675**		0.00100	0.000179	mg/L			04/30/22 15:05	1
o-Xylene	**0.0403**		0.00100	0.000192	mg/L			04/30/22 15:05	1
p-Cymene (p-Isopropyltoluene)	**0.00176**		0.00100	0.000233	mg/L			04/30/22 15:05	1

Client Sample Results

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

Job ID: 880-14229-1

Client Sample ID: MW-2

Date Collected: 04/28/22 11:00
Date Received: 04/28/22 16:04

Lab Sample ID: 880-14229-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**0.00214**		0.00100	0.000199	mg/L			04/30/22 15:05	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/30/22 15:05	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/30/22 15:05	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/30/22 15:05	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/30/22 15:05	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/30/22 15:05	1
Toluene	**0.0164**		0.00100	0.000500	mg/L			04/30/22 15:05	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/30/22 15:05	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/30/22 15:05	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 15:05	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 15:05	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/30/22 15:05	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/30/22 15:05	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/30/22 15:05	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/30/22 15:05	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/30/22 15:05	1
1,2,4-Trimethylbenzene	**0.0872**		0.00100	0.000252	mg/L			04/30/22 15:05	1
1,3,5-Trimethylbenzene	**0.0220**		0.00100	0.000279	mg/L			04/30/22 15:05	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/30/22 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*		*04/30/22 15:05*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 131*		*04/30/22 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*63 - 144*		*04/30/22 15:05*	*1*
Toluene-d8 (Surr)	*104*		*80 - 117*		*04/30/22 15:05*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	**0.292**		0.0500	0.00165	mg/L			04/30/22 15:25	5
Xylenes, Total	**0.333**		0.0500	0.00165	mg/L			04/30/22 15:25	5
Total BTEX	**0.452**		0.0500	0.00107	mg/L			04/30/22 15:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*74 - 124*		*04/30/22 15:25*	*5*
Dibromofluoromethane (Surr)	*108*		*75 - 131*		*04/30/22 15:25*	*5*
1,2-Dichloroethane-d4 (Surr)	*123*		*63 - 144*		*04/30/22 15:25*	*5*
Toluene-d8 (Surr)	*103*		*80 - 117*		*04/30/22 15:25*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.76**	**J**	4.63	0.915	mg/L			04/27/22 18:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.76**	**J**	4.63	0.915	mg/L		04/29/22 17:07	04/30/22 00:41	1
Diesel Range Organics (Over C10-C28)	<0.915	U	4.63	0.915	mg/L		04/29/22 17:07	04/30/22 00:41	1
Oil Range Organics (Over C28-C36)	<0.883	U	4.63	0.883	mg/L		04/29/22 17:07	04/30/22 00:41	1

Client Sample Results

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2
Lab Sample ID: 880-14229-2
Date Collected: 04/28/22 11:00
Matrix: Water
Date Received: 04/28/22 16:04

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 135	04/29/22 17:07	04/30/22 00:41	1
o-Terphenyl	98		70 - 135	04/29/22 17:07	04/30/22 00:41	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**156**		0.500	0.200	mg/L			04/29/22 19:55	1
Nitrate as N	**0.711**		0.100	0.0391	mg/L			04/29/22 19:55	1
Fluoride	**0.172**	**J**	0.500	0.100	mg/L			05/03/22 18:38	1
Nitrite as N	**0.434**	**B**	0.100	0.0293	mg/L			04/29/22 19:55	1
Sulfate	**118**		0.500	0.109	mg/L			04/29/22 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**1380**		4.00	4.00	mg/L			05/02/22 13:02	1
Bicarbonate Alkalinity as CaCO3	**1380**		4.00	4.00	mg/L			05/02/22 13:02	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/02/22 13:02	1
Carbon dioxide	**2310**				mg/L			05/03/22 23:16	1
Carbon Dioxide, Free	**1100**				mg/L			05/03/22 23:16	1
pH	**6.4**	**HF**			SU			04/30/22 15:39	1
Temperature	**19.8**	**HF**			Celsius			04/30/22 15:39	1
Sulfide	<0.495	U	5.00	0.495	mg/L			05/03/22 22:19	1

Surrogate Summary

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(74-124)	(75-131)	(63-144)	(80-117)
860-25198-G-1 MS	Matrix Spike	97	101	91	98
880-14136-A-1 MS	Matrix Spike	104	107	117	104
880-14229-1	MW-1	100	97	94	99
880-14229-2	MW-2	105	108	122	104
880-14229-2 - DL	MW-2	106	108	123	103
LCS 860-51033/3	Lab Control Sample	103	107	117	103
LCS 860-51107/3	Lab Control Sample	95	100	91	98
LCSD 860-51033/4	Lab Control Sample Dup	105	106	118	104
LCSD 860-51107/4	Lab Control Sample Dup	96	99	92	99
MB 860-51033/9	Method Blank	105	108	121	104
MB 860-51107/9	Method Blank	99	98	93	100

Surrogate Legend

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

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
880-14229-1	MW-1	85	99
880-14229-2	MW-2	84	98
890-2236-S-1-A MS	Matrix Spike	125	106
LCS 860-51020/2-A	Lab Control Sample	102	93
LCSD 860-51020/3-A	Lab Control Sample Dup	102	101
MB 860-51020/1-A	Method Blank	81	92

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 880-14229-1

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

Lab Sample ID: MB 860-51033/9
Matrix: Water
Analysis Batch: 51033

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			04/30/22 13:02	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			04/30/22 13:02	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			04/30/22 13:02	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			04/30/22 13:02	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			04/30/22 13:02	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			04/30/22 13:02	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			04/30/22 13:02	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			04/30/22 13:02	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			04/30/22 13:02	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			04/30/22 13:02	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			04/30/22 13:02	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			04/30/22 13:02	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			04/30/22 13:02	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			04/30/22 13:02	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			04/30/22 13:02	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			04/30/22 13:02	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			04/30/22 13:02	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			04/30/22 13:02	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			04/30/22 13:02	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			04/30/22 13:02	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			04/30/22 13:02	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			04/30/22 13:02	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			04/30/22 13:02	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			04/30/22 13:02	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			04/30/22 13:02	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			04/30/22 13:02	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			04/30/22 13:02	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			04/30/22 13:02	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			04/30/22 13:02	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			04/30/22 13:02	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			04/30/22 13:02	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 13:02	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			04/30/22 13:02	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			04/30/22 13:02	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			04/30/22 13:02	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			04/30/22 13:02	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			04/30/22 13:02	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			04/30/22 13:02	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			04/30/22 13:02	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			04/30/22 13:02	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			04/30/22 13:02	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			04/30/22 13:02	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			04/30/22 13:02	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			04/30/22 13:02	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			04/30/22 13:02	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			04/30/22 13:02	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			04/30/22 13:02	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			04/30/22 13:02	1

QC Sample Results

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-51033/9
Matrix: Water
Analysis Batch: 51033

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			04/30/22 13:02	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/30/22 13:02	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 13:02	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/30/22 13:02	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/30/22 13:02	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/30/22 13:02	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/30/22 13:02	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/30/22 13:02	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/30/22 13:02	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/30/22 13:02	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/30/22 13:02	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/30/22 13:02	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/30/22 13:02	1
Total BTEX	<0.000214	U	0.0100	0.000214	mg/L			04/30/22 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*		*04/30/22 13:02*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 131*		*04/30/22 13:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*63 - 144*		*04/30/22 13:02*	*1*
Toluene-d8 (Surr)	*104*		*80 - 117*		*04/30/22 13:02*	*1*

Lab Sample ID: LCS 860-51033/3
Matrix: Water
Analysis Batch: 51033

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	0.04617		mg/L		92	66 - 142
Bromobenzene	0.0500	0.04558		mg/L		91	75 - 125
Bromochloromethane	0.0500	0.04486		mg/L		90	60 - 140
Bromodichloromethane	0.0500	0.04751		mg/L		95	75 - 125
Bromoform	0.0500	0.03771		mg/L		75	75 - 125
Bromomethane	0.0500	0.04453		mg/L		89	60 - 140
2-Butanone	0.250	0.2155		mg/L		86	60 - 140
Carbon tetrachloride	0.0500	0.05171		mg/L		103	62 - 125
Chlorobenzene	0.0500	0.04576		mg/L		92	60 - 133
Chloroethane	0.0500	0.04276		mg/L		86	60 - 140
Chloroform	0.0500	0.05221		mg/L		104	70 - 130
Chloromethane	0.0500	0.04073		mg/L		81	60 - 140
2-Chlorotoluene	0.0500	0.04896		mg/L		98	73 - 125
4-Chlorotoluene	0.0500	0.04935		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05088		mg/L		102	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04590		mg/L		92	74 - 125
Dibromochloromethane	0.0500	0.04154		mg/L		83	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03550		mg/L		71	59 - 125
1,2-Dibromoethane	0.0500	0.04291		mg/L		86	73 - 125
1,2-Dichlorobenzene	0.0500	0.04637		mg/L		93	75 - 125
1,3-Dichlorobenzene	0.0500	0.04559		mg/L		91	75 - 125
1,4-Dichlorobenzene	0.0500	0.04590		mg/L		92	75 - 125

QC Sample Results

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

Job ID: 880-14229-1

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

Lab Sample ID: LCS 860-51033/3
Matrix: Water
Analysis Batch: 51033

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.04128		mg/L		83	70 - 130
1,1-Dichloroethane	0.0500	0.04690		mg/L		94	72 - 125
1,2-Dichloroethane	0.0500	0.05259		mg/L		105	68 - 127
1,1-Dichloroethene	0.0500	0.04635		mg/L		93	59 - 172
1,2-Dichloropropane	0.0500	0.04732		mg/L		95	74 - 125
1,3-Dichloropropane	0.0500	0.04664		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05158		mg/L		103	75 - 125
1,1-Dichloropropene	0.0500	0.04974		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.04684		mg/L		94	75 - 125
Hexachlorobutadiene	0.0500	0.04740		mg/L		95	75 - 125
Isopropylbenzene	0.0500	0.04598		mg/L		92	75 - 125
Methylene Chloride	0.0500	0.04306		mg/L		86	75 - 125
m,p-Xylenes	0.0500	0.04665		mg/L		93	75 - 125
MTBE	0.0500	0.04634		mg/L		93	65 - 135
Naphthalene	0.0500	0.04193		mg/L		84	70 - 130
n-Butylbenzene	0.0500	0.04741		mg/L		95	75 - 125
N-Propylbenzene	0.0500	0.04770		mg/L		95	75 - 125
o-Xylene	0.0500	0.04694		mg/L		94	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04643		mg/L		93	75 - 125
sec-Butylbenzene	0.0500	0.04718		mg/L		94	75 - 125
Styrene	0.0500	0.04408		mg/L		88	75 - 125
tert-Butylbenzene	0.0500	0.04715		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04462		mg/L		89	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04560		mg/L		91	74 - 125
Tetrachloroethene	0.0500	0.04452		mg/L		89	71 - 125
Toluene	0.0500	0.04535		mg/L		91	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04461		mg/L		89	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04694		mg/L		94	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04436		mg/L		89	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04387		mg/L		88	75 - 135
1,1,1-Trichloroethane	0.0500	0.05125		mg/L		103	75 - 125
1,1,2-Trichloroethane	0.0500	0.04669		mg/L		93	75 - 127
Trichloroethene	0.0500	0.04347		mg/L		87	62 - 137
Trichlorofluoromethane	0.0500	0.05338		mg/L		107	60 - 140
1,2,3-Trichloropropane	0.0500	0.04602		mg/L		92	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04858		mg/L		97	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04710		mg/L		94	60 - 140
Vinyl chloride	0.0500	0.04243		mg/L		85	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*107*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*117*		*63 - 144*
Toluene-d8 (Surr)	*103*		*80 - 117*

QC Sample Results

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

Job ID: 880-14229-1

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

Lab Sample ID: LCSD 860-51033/4
Matrix: Water
Analysis Batch: 51033

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	0.04586		mg/L		92	66 - 142	1	25
Bromobenzene			0.0500	0.04561		mg/L		91	75 - 125	0	25
Bromochloromethane			0.0500	0.04370		mg/L		87	60 - 140	3	25
Bromodichloromethane			0.0500	0.04670		mg/L		93	75 - 125	2	25
Bromoform			0.0500	0.03895		mg/L		78	75 - 125	3	25
Bromomethane			0.0500	0.04674		mg/L		93	60 - 140	5	25
2-Butanone			0.250	0.2373		mg/L		95	60 - 140	10	25
Carbon tetrachloride			0.0500	0.04988		mg/L		100	62 - 125	4	25
Chlorobenzene			0.0500	0.04475		mg/L		90	60 - 133	2	25
Chloroethane			0.0500	0.04548		mg/L		91	60 - 140	6	25
Chloroform			0.0500	0.05103		mg/L		102	70 - 130	2	25
Chloromethane			0.0500	0.04390		mg/L		88	60 - 140	7	25
2-Chlorotoluene			0.0500	0.04884		mg/L		98	73 - 125	0	25
4-Chlorotoluene			0.0500	0.04951		mg/L		99	74 - 125	0	25
cis-1,2-Dichloroethene			0.0500	0.04984		mg/L		100	75 - 125	2	25
cis-1,3-Dichloropropene			0.0500	0.04569		mg/L		91	74 - 125	0	25
Dibromochloromethane			0.0500	0.04235		mg/L		85	73 - 125	2	25
1,2-Dibromo-3-Chloropropane			0.0500	0.03991		mg/L		80	59 - 125	12	25
1,2-Dibromoethane			0.0500	0.04450		mg/L		89	73 - 125	4	25
1,2-Dichlorobenzene			0.0500	0.04727		mg/L		95	75 - 125	2	25
1,3-Dichlorobenzene			0.0500	0.04583		mg/L		92	75 - 125	1	25
1,4-Dichlorobenzene			0.0500	0.04600		mg/L		92	75 - 125	0	25
Dichlorodifluoromethane			0.0500	0.04438		mg/L		89	70 - 130	7	25
1,1-Dichloroethane			0.0500	0.04585		mg/L		92	72 - 125	2	25
1,2-Dichloroethane			0.0500	0.05248		mg/L		105	68 - 127	0	25
1,1-Dichloroethene			0.0500	0.04468		mg/L		89	59 - 172	4	25
1,2-Dichloropropane			0.0500	0.04696		mg/L		94	74 - 125	1	25
1,3-Dichloropropane			0.0500	0.04756		mg/L		95	75 - 125	2	25
2,2-Dichloropropane			0.0500	0.05075		mg/L		101	75 - 125	2	25
1,1-Dichloropropene			0.0500	0.04731		mg/L		95	75 - 125	5	25
Ethylbenzene			0.0500	0.04627		mg/L		93	75 - 125	1	25
Hexachlorobutadiene			0.0500	0.04891		mg/L		98	75 - 125	3	25
Isopropylbenzene			0.0500	0.04493		mg/L		90	75 - 125	2	25
Methylene Chloride			0.0500	0.04205		mg/L		84	75 - 125	2	25
m,p-Xylenes			0.0500	0.04565		mg/L		91	75 - 125	2	25
MTBE			0.0500	0.04731		mg/L		95	65 - 135	2	25
Naphthalene			0.0500	0.04741		mg/L		95	70 - 130	12	25
n-Butylbenzene			0.0500	0.04837		mg/L		97	75 - 125	2	25
N-Propylbenzene			0.0500	0.04767		mg/L		95	75 - 125	0	25
o-Xylene			0.0500	0.04641		mg/L		93	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)			0.0500	0.04691		mg/L		94	75 - 125	1	25
sec-Butylbenzene			0.0500	0.04757		mg/L		95	75 - 125	1	25
Styrene			0.0500	0.04336		mg/L		87	75 - 125	2	25
tert-Butylbenzene			0.0500	0.04706		mg/L		94	75 - 125	0	25
1,1,1,2-Tetrachloroethane			0.0500	0.04408		mg/L		88	72 - 125	1	25
1,1,2,2-Tetrachloroethane			0.0500	0.05033		mg/L		101	74 - 125	10	25
Tetrachloroethene			0.0500	0.04326		mg/L		87	71 - 125	3	25
Toluene			0.0500	0.04411		mg/L		88	59 - 139	3	25

QC Sample Results

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

Job ID: 880-14229-1

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

Lab Sample ID: LCSD 860-51033/4
Matrix: Water
Analysis Batch: 51033

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	0.04338		mg/L		87	75 - 125	3	25
trans-1,3-Dichloropropene			0.0500	0.04717		mg/L		94	66 - 125	0	25
1,2,3-Trichlorobenzene			0.0500	0.04844		mg/L		97	75 - 137	9	25
1,2,4-Trichlorobenzene			0.0500	0.04665		mg/L		93	75 - 135	6	25
1,1,1-Trichloroethane			0.0500	0.05035		mg/L		101	75 - 125	2	25
1,1,2-Trichloroethane			0.0500	0.04745		mg/L		95	75 - 127	2	25
Trichloroethene			0.0500	0.04270		mg/L		85	62 - 137	2	25
Trichlorofluoromethane			0.0500	0.05615		mg/L		112	60 - 140	5	25
1,2,3-Trichloropropane			0.0500	0.04963		mg/L		99	75 - 125	8	25
1,2,4-Trimethylbenzene			0.0500	0.04831		mg/L		97	75 - 125	1	25
1,3,5-Trimethylbenzene			0.0500	0.04748		mg/L		95	60 - 140	1	25
Vinyl chloride			0.0500	0.04539		mg/L		91	60 - 140	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*
Dibromofluoromethane (Surr)	*106*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*118*		*63 - 144*
Toluene-d8 (Surr)	*104*		*80 - 117*

Lab Sample ID: MB 860-51107/9
Matrix: Water
Analysis Batch: 51107

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/02/22 09:13	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L			05/02/22 09:13	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L			05/02/22 09:13	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L			05/02/22 09:13	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L			05/02/22 09:13	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L			05/02/22 09:13	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L			05/02/22 09:13	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L			05/02/22 09:13	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L			05/02/22 09:13	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L			05/02/22 09:13	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L			05/02/22 09:13	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L			05/02/22 09:13	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L			05/02/22 09:13	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L			05/02/22 09:13	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L			05/02/22 09:13	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L			05/02/22 09:13	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L			05/02/22 09:13	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L			05/02/22 09:13	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L			05/02/22 09:13	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L			05/02/22 09:13	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L			05/02/22 09:13	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L			05/02/22 09:13	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L			05/02/22 09:13	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L			05/02/22 09:13	1

QC Sample Results

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

Job ID: 880-14229-1

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

Lab Sample ID: MB 860-51107/9
Matrix: Water
Analysis Batch: 51107

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L			05/02/22 09:13	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L			05/02/22 09:13	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L			05/02/22 09:13	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L			05/02/22 09:13	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L			05/02/22 09:13	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L			05/02/22 09:13	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/02/22 09:13	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L			05/02/22 09:13	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161	mg/L			05/02/22 09:13	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L			05/02/22 09:13	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/02/22 09:13	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L			05/02/22 09:13	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L			05/02/22 09:13	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L			05/02/22 09:13	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179	mg/L			05/02/22 09:13	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/02/22 09:13	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233	mg/L			05/02/22 09:13	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L			05/02/22 09:13	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L			05/02/22 09:13	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L			05/02/22 09:13	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L			05/02/22 09:13	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L			05/02/22 09:13	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L			05/02/22 09:13	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/02/22 09:13	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L			05/02/22 09:13	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			05/02/22 09:13	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			05/02/22 09:13	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			05/02/22 09:13	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			05/02/22 09:13	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			05/02/22 09:13	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			05/02/22 09:13	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			05/02/22 09:13	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			05/02/22 09:13	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			05/02/22 09:13	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			05/02/22 09:13	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			05/02/22 09:13	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/02/22 09:13	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/02/22 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*05/02/22 09:13*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 131*		*05/02/22 09:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 144*		*05/02/22 09:13*	*1*
Toluene-d8 (Surr)	*100*		*80 - 117*		*05/02/22 09:13*	*1*

QC Sample Results

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

Job ID: 880-14229-1

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

Lab Sample ID: LCS 860-51107/3
Matrix: Water
Analysis Batch: 51107

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	0.04985		mg/L		100	66 - 142
Bromobenzene	0.0500	0.04677		mg/L		94	75 - 125
Bromochloromethane	0.0500	0.04878		mg/L		98	60 - 140
Bromodichloromethane	0.0500	0.04249		mg/L		85	75 - 125
Bromoform	0.0500	0.04335		mg/L		87	75 - 125
Bromomethane	0.0500	0.04642		mg/L		93	60 - 140
2-Butanone	0.250	0.2415		mg/L		97	60 - 140
Carbon tetrachloride	0.0500	0.04546		mg/L		91	62 - 125
Chlorobenzene	0.0500	0.05024		mg/L		100	60 - 133
Chloroethane	0.0500	0.04577		mg/L		92	60 - 140
Chloroform	0.0500	0.04985		mg/L		100	70 - 130
Chloromethane	0.0500	0.05549		mg/L		111	60 - 140
2-Chlorotoluene	0.0500	0.04897		mg/L		98	73 - 125
4-Chlorotoluene	0.0500	0.04934		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04550		mg/L		91	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04746		mg/L		95	74 - 125
Dibromochloromethane	0.0500	0.04713		mg/L		94	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04607		mg/L		92	59 - 125
1,2-Dibromoethane	0.0500	0.04991		mg/L		100	73 - 125
1,2-Dichlorobenzene	0.0500	0.05087		mg/L		102	75 - 125
1,3-Dichlorobenzene	0.0500	0.05021		mg/L		100	75 - 125
1,4-Dichlorobenzene	0.0500	0.05101		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.05756		mg/L		115	70 - 130
1,1-Dichloroethane	0.0500	0.04930		mg/L		99	72 - 125
1,2-Dichloroethane	0.0500	0.04214		mg/L		84	68 - 127
1,1-Dichloroethene	0.0500	0.05353		mg/L		107	59 - 172
1,2-Dichloropropane	0.0500	0.04980		mg/L		100	74 - 125
1,3-Dichloropropane	0.0500	0.04887		mg/L		98	75 - 125
2,2-Dichloropropane	0.0500	0.04897		mg/L		98	75 - 125
1,1-Dichloropropene	0.0500	0.05028		mg/L		101	75 - 125
Ethylbenzene	0.0500	0.04895		mg/L		98	75 - 125
Hexachlorobutadiene	0.0500	0.04759		mg/L		95	75 - 125
Isopropylbenzene	0.0500	0.04605		mg/L		92	75 - 125
Methylene Chloride	0.0500	0.05281		mg/L		106	75 - 125
m,p-Xylenes	0.0500	0.04930		mg/L		99	75 - 125
MTBE	0.0500	0.04638		mg/L		93	65 - 135
Naphthalene	0.0500	0.04969		mg/L		99	70 - 130
n-Butylbenzene	0.0500	0.04685		mg/L		94	75 - 125
N-Propylbenzene	0.0500	0.04987		mg/L		100	75 - 125
o-Xylene	0.0500	0.04878		mg/L		98	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04626		mg/L		93	75 - 125
sec-Butylbenzene	0.0500	0.04702		mg/L		94	75 - 125
Styrene	0.0500	0.04797		mg/L		96	75 - 125
tert-Butylbenzene	0.0500	0.04606		mg/L		92	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04774		mg/L		95	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05067		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.04784		mg/L		96	71 - 125
Toluene	0.0500	0.04952		mg/L		99	59 - 139

QC Sample Results

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

Job ID: 880-14229-1

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

Lab Sample ID: LCS 860-51107/3
Matrix: Water
Analysis Batch: 51107

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
trans-1,2-Dichloroethene			0.0500	0.05051		mg/L		101	75 - 125		
trans-1,3-Dichloropropene			0.0500	0.04328		mg/L		87	66 - 125		
1,2,3-Trichlorobenzene			0.0500	0.04967		mg/L		99	75 - 137		
1,2,4-Trichlorobenzene			0.0500	0.04820		mg/L		96	75 - 135		
1,1,1-Trichloroethane			0.0500	0.04812		mg/L		96	75 - 125		
1,1,2-Trichloroethane			0.0500	0.05106		mg/L		102	75 - 127		
Trichloroethene			0.0500	0.04831		mg/L		97	62 - 137		
Trichlorofluoromethane			0.0500	0.05012		mg/L		100	60 - 140		
1,2,3-Trichloropropane			0.0500	0.04802		mg/L		96	75 - 125		
1,2,4-Trimethylbenzene			0.0500	0.04607		mg/L		92	75 - 125		
1,3,5-Trimethylbenzene			0.0500	0.04905		mg/L		98	60 - 140		
Vinyl chloride			0.0500	0.05142		mg/L		103	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*74 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*
Toluene-d8 (Surr)	*98*		*80 - 117*

Lab Sample ID: LCSD 860-51107/4
Matrix: Water
Analysis Batch: 51107

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	0.04778		mg/L		96	66 - 142	4	25
Bromobenzene			0.0500	0.04402		mg/L		88	75 - 125	6	25
Bromochloromethane			0.0500	0.04611		mg/L		92	60 - 140	6	25
Bromodichloromethane			0.0500	0.04077		mg/L		82	75 - 125	4	25
Bromoform			0.0500	0.03988		mg/L		80	75 - 125	8	25
Bromomethane			0.0500	0.04358		mg/L		87	60 - 140	6	25
2-Butanone			0.250	0.2232		mg/L		89	60 - 140	8	25
Carbon tetrachloride			0.0500	0.04204		mg/L		84	62 - 125	8	25
Chlorobenzene			0.0500	0.04673		mg/L		93	60 - 133	7	25
Chloroethane			0.0500	0.04162		mg/L		83	60 - 140	10	25
Chloroform			0.0500	0.04687		mg/L		94	70 - 130	6	25
Chloromethane			0.0500	0.05171		mg/L		103	60 - 140	7	25
2-Chlorotoluene			0.0500	0.04549		mg/L		91	73 - 125	7	25
4-Chlorotoluene			0.0500	0.04577		mg/L		92	74 - 125	8	25
cis-1,2-Dichloroethene			0.0500	0.04274		mg/L		85	75 - 125	6	25
cis-1,3-Dichloropropene			0.0500	0.04521		mg/L		90	74 - 125	5	25
Dibromochloromethane			0.0500	0.04498		mg/L		90	73 - 125	5	25
1,2-Dibromo-3-Chloropropane			0.0500	0.04305		mg/L		86	59 - 125	7	25
1,2-Dibromoethane			0.0500	0.04718		mg/L		94	73 - 125	6	25
1,2-Dichlorobenzene			0.0500	0.04703		mg/L		94	75 - 125	8	25
1,3-Dichlorobenzene			0.0500	0.04718		mg/L		94	75 - 125	6	25
1,4-Dichlorobenzene			0.0500	0.04724		mg/L		94	75 - 125	8	25
Dichlorodifluoromethane			0.0500	0.05170		mg/L		103	70 - 130	11	25
1,1-Dichloroethane			0.0500	0.04611		mg/L		92	72 - 125	7	25

QC Sample Results

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

Job ID: 880-14229-1

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

Lab Sample ID: LCSD 860-51107/4
Matrix: Water
Analysis Batch: 51107

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			0.0500	0.04028		mg/L		81	68 - 127	5	25
1,1-Dichloroethene			0.0500	0.04977		mg/L		100	59 - 172	7	25
1,2-Dichloropropane			0.0500	0.04712		mg/L		94	74 - 125	6	25
1,3-Dichloropropane			0.0500	0.04657		mg/L		93	75 - 125	5	25
2,2-Dichloropropane			0.0500	0.04481		mg/L		90	75 - 125	9	25
1,1-Dichloropropene			0.0500	0.04660		mg/L		93	75 - 125	8	25
Ethylbenzene			0.0500	0.04557		mg/L		91	75 - 125	7	25
Hexachlorobutadiene			0.0500	0.04303		mg/L		86	75 - 125	10	25
Isopropylbenzene			0.0500	0.04254		mg/L		85	75 - 125	8	25
Methylene Chloride			0.0500	0.04994		mg/L		100	75 - 125	6	25
m,p-Xylenes			0.0500	0.04564		mg/L		91	75 - 125	8	25
MTBE			0.0500	0.04355		mg/L		87	65 - 135	6	25
Naphthalene			0.0500	0.04463		mg/L		89	70 - 130	11	25
n-Butylbenzene			0.0500	0.04348		mg/L		87	75 - 125	7	25
N-Propylbenzene			0.0500	0.04621		mg/L		92	75 - 125	8	25
o-Xylene			0.0500	0.04528		mg/L		91	75 - 125	7	25
p-Cymene (p-Isopropyltoluene)			0.0500	0.04315		mg/L		86	75 - 125	7	25
sec-Butylbenzene			0.0500	0.04371		mg/L		87	75 - 125	7	25
Styrene			0.0500	0.04496		mg/L		90	75 - 125	6	25
tert-Butylbenzene			0.0500	0.04255		mg/L		85	75 - 125	8	25
1,1,1,2-Tetrachloroethane			0.0500	0.04506		mg/L		90	72 - 125	6	25
1,1,2,2-Tetrachloroethane			0.0500	0.04673		mg/L		93	74 - 125	8	25
Tetrachloroethene			0.0500	0.04431		mg/L		89	71 - 125	8	25
Toluene			0.0500	0.04685		mg/L		94	59 - 139	6	25
trans-1,2-Dichloroethene			0.0500	0.04667		mg/L		93	75 - 125	8	25
trans-1,3-Dichloropropene			0.0500	0.04093		mg/L		82	66 - 125	6	25
1,2,3-Trichlorobenzene			0.0500	0.04410		mg/L		88	75 - 137	12	25
1,2,4-Trichlorobenzene			0.0500	0.04452		mg/L		89	75 - 135	8	25
1,1,1-Trichloroethane			0.0500	0.04393		mg/L		88	75 - 125	9	25
1,1,2-Trichloroethane			0.0500	0.04795		mg/L		96	75 - 127	6	25
Trichloroethene			0.0500	0.04477		mg/L		90	62 - 137	8	25
Trichlorofluoromethane			0.0500	0.04593		mg/L		92	60 - 140	9	25
1,2,3-Trichloropropane			0.0500	0.04432		mg/L		89	75 - 125	8	25
1,2,4-Trimethylbenzene			0.0500	0.04285		mg/L		86	75 - 125	7	25
1,3,5-Trimethylbenzene			0.0500	0.04613		mg/L		92	60 - 140	6	25
Vinyl chloride			0.0500	0.04685		mg/L		94	60 - 140	9	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*74 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*
Toluene-d8 (Surr)	*99*		*80 - 117*

QC Sample Results

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-51020/1-A
Matrix: Water
Analysis Batch: 50934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51020

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		04/29/22 17:07	04/29/22 22:28	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		04/29/22 17:07	04/29/22 22:28	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		04/29/22 17:07	04/29/22 22:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 135*	*04/29/22 17:07*	*04/29/22 22:28*	*1*
o-Terphenyl	*92*		*70 - 135*	*04/29/22 17:07*	*04/29/22 22:28*	*1*

Lab Sample ID: LCS 860-51020/2-A
Matrix: Water
Analysis Batch: 50934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51020

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			99.6	102.9		mg/L		103	70 - 135		
Diesel Range Organics (Over C10-C28)			99.9	104.9		mg/L		105	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 135*
o-Terphenyl	*93*		*70 - 135*

Lab Sample ID: LCSD 860-51020/3-A
Matrix: Water
Analysis Batch: 50934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51020

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.6	100.4		mg/L		101	70 - 135	2	35
Diesel Range Organics (Over C10-C28)			99.9	109.1		mg/L		109	70 - 135	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 135*
o-Terphenyl	*101*		*70 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-50896/3
Matrix: Water
Analysis Batch: 50896

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			04/29/22 09:51	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/29/22 09:51	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/29/22 09:51	1

QC Sample Results

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-50896/39
Matrix: Water
Analysis Batch: 50896
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			04/29/22 16:58	1
Fluoride	<0.100	U	0.500	0.100	mg/L			04/29/22 16:58	1
Sulfate	<0.109	U	0.500	0.109	mg/L			04/29/22 16:58	1

Lab Sample ID: LCS 860-50896/40
Matrix: Water
Analysis Batch: 50896
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.52		mg/L		105	90 - 110
Fluoride	10.0	10.84		mg/L		108	90 - 110
Sulfate	10.0	10.44		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-50896/41
Matrix: Water
Analysis Batch: 50896
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.77		mg/L		108	90 - 110	2	20
Sulfate	10.0	10.64		mg/L		106	90 - 110	2	20

Lab Sample ID: LLCS 860-50896/5
Matrix: Water
Analysis Batch: 50896
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.6485		mg/L		130	50 - 150
Fluoride	0.500	0.6187		mg/L		124	50 - 150
Sulfate	0.500	0.5942		mg/L		119	50 - 150

Lab Sample ID: MB 860-50897/3
Matrix: Water
Analysis Batch: 50897
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			04/29/22 09:51	1
Nitrite as N	0.03548	J	0.100	0.0293	mg/L			04/29/22 09:51	1

Lab Sample ID: MB 860-50897/39
Matrix: Water
Analysis Batch: 50897
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			04/29/22 16:58	1
Nitrite as N	0.03387	J	0.100	0.0293	mg/L			04/29/22 16:58	1

QC Sample Results

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

Job ID: 880-14229-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-50897/40
Matrix: Water
Analysis Batch: 50897

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	10.25		mg/L		102	80 - 120
Nitrite as N	5.00	5.207		mg/L		104	80 - 120

Lab Sample ID: LCSD 860-50897/41
Matrix: Water
Analysis Batch: 50897

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	10.43		mg/L		104	80 - 120	2	20
Nitrite as N	5.00	5.304		mg/L		106	80 - 120	2	20

Lab Sample ID: LLCS 860-50897/4
Matrix: Water
Analysis Batch: 50897

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	0.1427		mg/L		143	50 - 150
Nitrite as N	0.100	0.1342		mg/L		134	50 - 150

Lab Sample ID: MB 860-51291/3
Matrix: Water
Analysis Batch: 51291

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			05/03/22 09:51	1
Fluoride	<0.100	U	0.500	0.100	mg/L			05/03/22 09:51	1
Sulfate	<0.109	U	0.500	0.109	mg/L			05/03/22 09:51	1

Lab Sample ID: LCS 860-51291/6
Matrix: Water
Analysis Batch: 51291

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.524		mg/L		95	90 - 110
Fluoride	10.0	10.19		mg/L		102	90 - 110
Sulfate	10.0	9.810		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-51291/7
Matrix: Water
Analysis Batch: 51291

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.465		mg/L		95	90 - 110	1	20
Fluoride	10.0	10.27		mg/L		103	90 - 110	1	20
Sulfate	10.0	9.807		mg/L		98	90 - 110	0	20

QC Sample Results

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

Job ID: 880-14229-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-51291/5
Matrix: Water
Analysis Batch: 51291

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5094		mg/L		102	50 - 150
Fluoride	0.500	0.4735	J	mg/L		95	50 - 150
Sulfate	0.500	0.4761	J	mg/L		95	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-51250/3
Matrix: Water
Analysis Batch: 51250

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			05/02/22 11:55	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/02/22 11:55	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/02/22 11:55	1

Lab Sample ID: LCS 860-51250/4
Matrix: Water
Analysis Batch: 51250

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	273.2		mg/L		109	85 - 115

Lab Sample ID: LCSD 860-51250/5
Matrix: Water
Analysis Batch: 51250

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	271.8		mg/L		109	85 - 115	1	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-51457/1
Matrix: Water
Analysis Batch: 51457

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495	mg/L			05/03/22 22:19	1

Lab Sample ID: LCS 860-51457/2
Matrix: Water
Analysis Batch: 51457

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	50.0	45.80		mg/L		92	80 - 120

QC Sample Results

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-51457/3
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 51457

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			50.0	46.60		mg/L		93	80 - 120	2	20

Lab Sample ID: 880-14229-1 MS
Client Sample ID: MW-1
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 51457

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.495	U	50.0	46.20		mg/L		92	80 - 120		

Lab Sample ID: 880-14229-1 MSD
Client Sample ID: MW-1
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 51457

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	47.00		mg/L		94	80 - 120	2	20

QC Association Summary

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 51033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-2	MW-2	Total/NA	Water	8260C	
880-14229-2 - DL	MW-2	Total/NA	Water	8260C	
MB 860-51033/9	Method Blank	Total/NA	Water	8260C	
LCS 860-51033/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-51033/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 51107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	8260C	
MB 860-51107/9	Method Blank	Total/NA	Water	8260C	
LCS 860-51107/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-51107/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 50664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	8015 NM	
880-14229-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 50934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	8015B NM	51020
880-14229-2	MW-2	Total/NA	Water	8015B NM	51020
MB 860-51020/1-A	Method Blank	Total/NA	Water	8015B NM	51020
LCS 860-51020/2-A	Lab Control Sample	Total/NA	Water	8015B NM	51020
LCSD 860-51020/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	51020

Prep Batch: 51020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-14229-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-51020/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-51020/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-51020/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 50896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	300.0	
880-14229-2	MW-2	Total/NA	Water	300.0	
MB 860-50896/3	Method Blank	Total/NA	Water	300.0	
MB 860-50896/39	Method Blank	Total/NA	Water	300.0	
LCS 860-50896/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-50896/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-50896/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 50897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	300.0	
880-14229-2	MW-2	Total/NA	Water	300.0	

QC Association Summary

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 50897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-50897/3	Method Blank	Total/NA	Water	300.0	
MB 860-50897/39	Method Blank	Total/NA	Water	300.0	
LCS 860-50897/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-50897/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-50897/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 51291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	300.0	
880-14229-2	MW-2	Total/NA	Water	300.0	
MB 860-51291/3	Method Blank	Total/NA	Water	300.0	
LCS 860-51291/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-51291/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-51291/5	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 51067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-14229-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 51250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	SM 2320B	
880-14229-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-51250/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-51250/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-51250/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 51457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-14229-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-51457/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-51457/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-51457/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-14229-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-14229-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 51459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14229-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-14229-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1
Lab Sample ID: 880-14229-1
Date Collected: 04/28/22 10:00
Matrix: Water
Date Received: 04/28/22 16:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	51107	05/02/22 12:58	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			51020	04/29/22 17:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	50934	04/30/22 00:22	T1S	XEN STF
Total/NA	Analysis	300.0		1	51291	05/03/22 18:25	ANP	XEN STF
Total/NA	Analysis	300.0		1	50896	04/29/22 19:32	W1N	XEN STF
Total/NA	Analysis	300.0		1	50897	04/29/22 19:32	W1N	XEN STF
Total/NA	Analysis	SM 2320B		1	51250	05/02/22 12:45	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	51459	05/03/22 23:16	DP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	51067	04/30/22 15:39	ALL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	51457	05/03/22 22:19	YGG	XEN STF

Client Sample ID: MW-2
Lab Sample ID: 880-14229-2
Date Collected: 04/28/22 11:00
Matrix: Water
Date Received: 04/28/22 16:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	51033	04/30/22 15:05	A1S	XEN STF
Total/NA	Analysis	8260C	DL	5	51033	04/30/22 15:25	A1S	XEN STF
Total/NA	Analysis	8015 NM		1	50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			51020	04/29/22 17:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	50934	04/30/22 00:41	T1S	XEN STF
Total/NA	Analysis	300.0		1	51291	05/03/22 18:38	ANP	XEN STF
Total/NA	Analysis	300.0		1	50896	04/29/22 19:55	W1N	XEN STF
Total/NA	Analysis	300.0		1	50897	04/29/22 19:55	W1N	XEN STF
Total/NA	Analysis	SM 2320B		1	51250	05/02/22 13:02	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	51459	05/03/22 23:16	DP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	51067	04/30/22 15:39	ALL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	51457	05/03/22 22:19	YGG	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	OII Range Organics (Over C28-C36)
8260C		Water	Total BTEX
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

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

Protocol References:

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

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

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

Laboratory References:

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

Sample Summary

Client: Ensolum
Job ID: 880-14229-1
Project/Site: South Hobbs - 03B1417002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14229-1	MW-1	Water	04/28/22 10:00	04/28/22 16:04
880-14229-2	MW-2	Water	04/28/22 11:00	04/28/22 16:04

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Chain of Custody

XENCO LABORATORIES

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

Work Order No: 14229

www.xenco.com Page 1 of 1

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

Work Order Comments

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

Project Name:	South Hobbs	Turn Around	
Project Number:	03B1417002	Routine ☐	
P.O. Number:	03B1417002	Rush 24 Hr	
Sampler's Name:	Aaron Marquez	Due Date	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.2/3.0	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Dissolved Carbon Dioxcide 4500 CO2 c	Dissovled Sulfide SW-846 #376.2	VOC SW-846 #8260	TPH EPA Method #8015	Chloride EPA Method #846 300	pH EPA SW-846 Method 150.1
MW-1	GW	4-28-22	1000	75'	7	X	X	X	X	X	X
MW-2	GW	4-28-22	1110	85'	7	X	X	X	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

24 Hr

880-14229 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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		4/28/22 16:04	2		
3			4		
5			6		

Revised Date 051418 Rev 2018 1

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5/4/2022

Received by OCD: 11/8/2023 2:18:22 PM

Released to Imaging: 3/20/2024 4:29:15 PM

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-14229-1

Login Number: 14229 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14229-1

Login Number: 14229
List Number: 2
Creator: Palmar, Pedro

List Source: Eurofins Houston
List Creation: 04/29/22 03:32 PM

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

ANALYTICAL REPORT

April 13, 2022

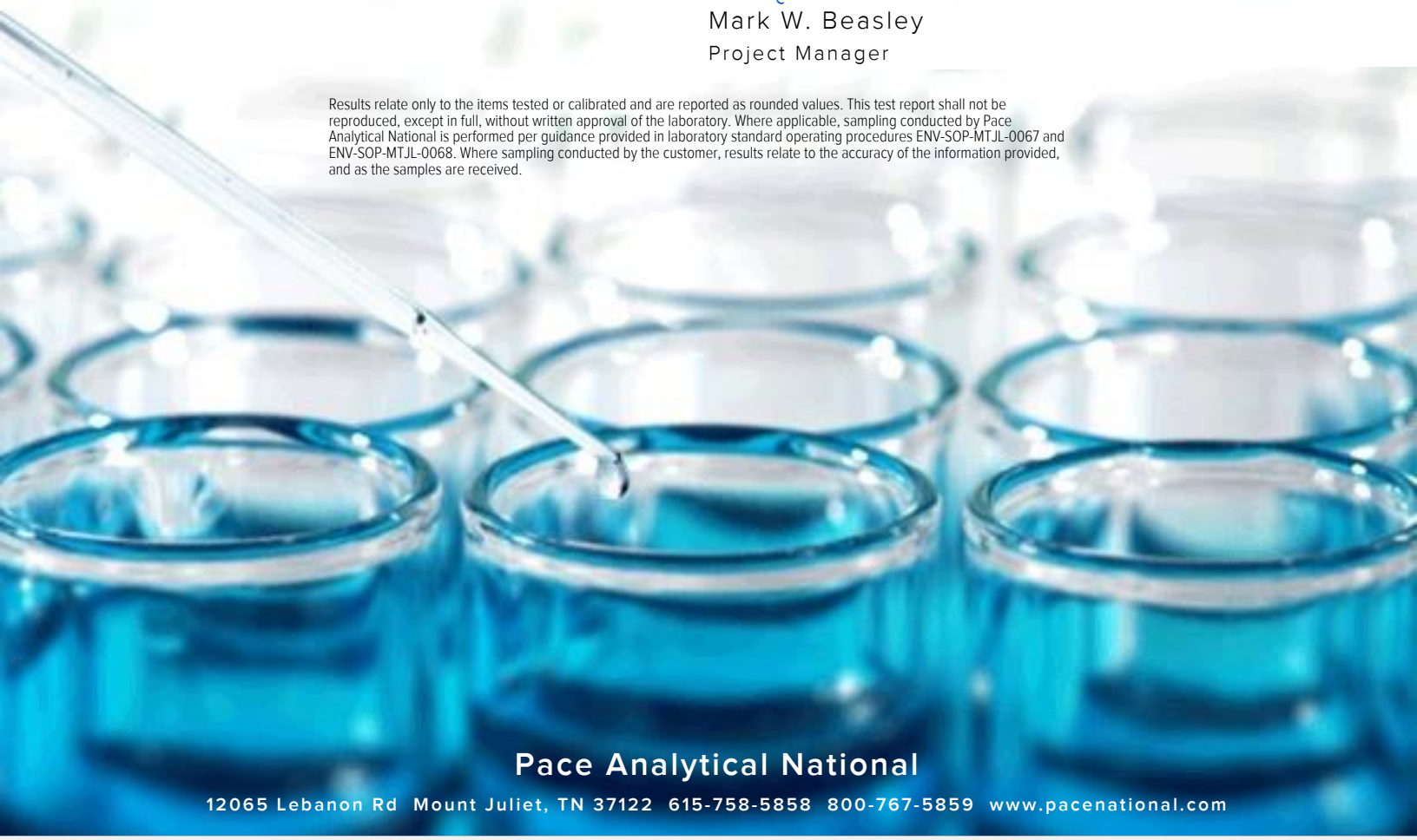
Ensolum, LLC

Sample Delivery Group:	L1480920
Samples Received:	04/08/2022
Project Number:	03B1417001
Description:	Levey Well
Site:	03B1417001
Report To:	Beaux Jennings 705 W. Wadley Ave, Ste 210 Midland, TX 79705

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

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



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

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LEVEY WELL L1480920-01 Air

			Collected by	Collected date/time	Received date/time
			Aaron Marquez	04/06/22 11:57	04/08/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1847741	500	04/13/22 13:06	04/13/22 13:06	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1848002	2000	04/13/22 13:43	04/13/22 13:43	CAW	Mt. Juliet, TN

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

Mark W. Beasley
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

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

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

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



Mark W. Beasley

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 04/13/2022 14:40
Project Name: Levey Well	Laboratory Job Number: L1480920-01
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1847741 and WG1848002

#[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).

Received by OCD: 11/8/2023 2:18:22 PM

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 04/13/2022 14:40
Project Name: Levey Well	Laboratory Job Number: L1480920-01
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1847741 and WG1848002

#[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).

Released to Imaging: 3/20/2024 4:29:15 PM

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 04/13/2022 14:40
Project Name: Levey Well	Laboratory Job Number: L1480920-01
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1847741 and WG1848002

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).

Received by OCD: 11/8/2023 2:18:22 PM

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	625	1490	ND	ND		500	WG1847741
Allyl chloride	107-05-1	76.53	100	313	ND	ND		500	WG1847741
Benzene	71-43-2	78.10	100	319	ND	ND		500	WG1847741
Benzyl Chloride	100-44-7	127	100	519	ND	ND		500	WG1847741
Bromodichloromethane	75-27-4	164	100	671	ND	ND		500	WG1847741
Bromoform	75-25-2	253	300	3100	ND	ND		500	WG1847741
Bromomethane	74-83-9	94.90	100	388	ND	ND		500	WG1847741
1,3-Butadiene	106-99-0	54.10	1000	2210	ND	ND		500	WG1847741
Carbon disulfide	75-15-0	76.10	100	311	ND	ND		500	WG1847741
Carbon tetrachloride	56-23-5	154	100	630	ND	ND		500	WG1847741
Chlorobenzene	108-90-7	113	100	462	ND	ND		500	WG1847741
Chloroethane	75-00-3	64.50	100	264	ND	ND		500	WG1847741
Chloroform	67-66-3	119	100	487	ND	ND		500	WG1847741
Chloromethane	74-87-3	50.50	100	207	ND	ND		500	WG1847741
2-Chlorotoluene	95-49-8	126	100	515	ND	ND		500	WG1847741
Cyclohexane	110-82-7	84.20	100	344	9420	32400		500	WG1847741
Dibromochloromethane	124-48-1	208	100	851	ND	ND		500	WG1847741
1,2-Dibromoethane	106-93-4	188	100	769	ND	ND		500	WG1847741
1,2-Dichlorobenzene	95-50-1	147	100	601	ND	ND		500	WG1847741
1,3-Dichlorobenzene	541-73-1	147	100	601	ND	ND		500	WG1847741
1,4-Dichlorobenzene	106-46-7	147	100	601	ND	ND		500	WG1847741
1,2-Dichloroethane	107-06-2	99	100	405	ND	ND		500	WG1847741
1,1-Dichloroethane	75-34-3	98	100	401	ND	ND		500	WG1847741
1,1-Dichloroethene	75-35-4	96.90	100	396	ND	ND		500	WG1847741
cis-1,2-Dichloroethene	156-59-2	96.90	100	396	ND	ND		500	WG1847741
trans-1,2-Dichloroethene	156-60-5	96.90	100	396	ND	ND		500	WG1847741
1,2-Dichloropropane	78-87-5	113	100	462	ND	ND		500	WG1847741
cis-1,3-Dichloropropene	10061-01-5	111	100	454	ND	ND		500	WG1847741
trans-1,3-Dichloropropene	10061-02-6	111	100	454	ND	ND		500	WG1847741
1,4-Dioxane	123-91-1	88.10	100	360	ND	ND		500	WG1847741
Ethanol	64-17-5	46.10	625	1180	685	1290		500	WG1847741
Ethylbenzene	100-41-4	106	100	434	ND	ND		500	WG1847741
4-Ethyltoluene	622-96-8	120	100	491	ND	ND		500	WG1847741
Trichlorofluoromethane	75-69-4	137.40	100	562	ND	ND		500	WG1847741
Dichlorodifluoromethane	75-71-8	120.92	100	495	ND	ND		500	WG1847741
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	100	766	ND	ND		500	WG1847741
1,2-Dichlorotetrafluoroethane	76-14-2	171	100	699	ND	ND		500	WG1847741
Heptane	142-82-5	100	100	409	9100	37200		500	WG1847741
Hexachloro-1,3-butadiene	87-68-3	261	315	3360	ND	ND		500	WG1847741
n-Hexane	110-54-3	86.20	1260	4440	105000	370000		2000	WG1848002
Isopropylbenzene	98-82-8	120.20	100	492	ND	ND		500	WG1847741
Methylene Chloride	75-09-2	84.90	100	347	ND	ND		500	WG1847741
Methyl Butyl Ketone	591-78-6	100	625	2560	ND	ND		500	WG1847741
2-Butanone (MEK)	78-93-3	72.10	625	1840	ND	ND		500	WG1847741
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	625	2560	ND	ND		500	WG1847741
Methyl methacrylate	80-62-6	100.12	100	409	2770	11300		500	WG1847741
MTBE	1634-04-4	88.10	100	360	ND	ND		500	WG1847741
Naphthalene	91-20-3	128	315	1650	ND	ND		500	WG1847741
2-Propanol	67-63-0	60.10	625	1540	4910	12100		500	WG1847741
Propene	115-07-1	42.10	625	1080	ND	ND		500	WG1847741
Styrene	100-42-5	104	100	425	ND	ND		500	WG1847741
1,1,2,2-Tetrachloroethane	79-34-5	168	100	687	ND	ND		500	WG1847741
Tetrachloroethylene	127-18-4	166	100	679	ND	ND		500	WG1847741
Tetrahydrofuran	109-99-9	72.10	100	295	ND	ND		500	WG1847741
Toluene	108-88-3	92.10	250	942	ND	ND		500	WG1847741
1,2,4-Trichlorobenzene	120-82-1	181	315	2330	ND	ND		500	WG1847741

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

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	100	544	ND	ND		500	WG1847741
1,1,2-Trichloroethane	79-00-5	133	100	544	ND	ND		500	WG1847741
Trichloroethylene	79-01-6	131	100	536	ND	ND		500	WG1847741
1,2,4-Trimethylbenzene	95-63-6	120	100	491	ND	ND		500	WG1847741
1,3,5-Trimethylbenzene	108-67-8	120	100	491	ND	ND		500	WG1847741
2,2,4-Trimethylpentane	540-84-1	114.22	100	467	ND	ND		500	WG1847741
Vinyl chloride	75-01-4	62.50	100	256	ND	ND		500	WG1847741
Vinyl Bromide	593-60-2	106.95	100	437	ND	ND		500	WG1847741
Vinyl acetate	108-05-4	86.10	100	352	ND	ND		500	WG1847741
m&p-Xylene	1330-20-7	106	200	867	ND	ND		500	WG1847741
o-Xylene	95-47-6	106	100	434	ND	ND		500	WG1847741
TPH (GC/MS) Low Fraction	8006-61-9	101	100000	413000	345000	1430000		500	WG1847741
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.9*				WG1847741
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.2*				WG1848002

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

Received by OCD: 11/8/2023 2:18:22 PM

Method Blank (MB)

(MB) R3780598-3 04/13/22 09:56

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

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Method Blank (MB)

(MB) R3780598-3 04/13/22 09:56

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.154	J	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	*99.3*			*60.0-140*

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

(LCS) R3780598-1 04/13/22 08:38 • (LCSD) R3780598-2 04/13/22 09:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.47	4.47	119	119	70.0-130			0.000	25
Allyl Chloride	3.75	4.47	4.72	119	126	70.0-130			5.44	25
Benzene	3.75	4.35	4.34	116	116	70.0-130			0.230	25
Benzyl Chloride	3.75	4.36	4.35	116	116	70.0-152			0.230	25
Bromodichloromethane	3.75	4.39	4.40	117	117	70.0-130			0.228	25

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

(LCS) R3780598-1 04/13/22 08:38 • (LCSD) R3780598-2 04/13/22 09:18

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	4.30	4.30	115	115	70.0-130			0.000	25
Bromomethane	3.75	4.31	4.30	115	115	70.0-130			0.232	25
1,3-Butadiene	3.75	4.32	4.35	115	116	70.0-130			0.692	25
Carbon disulfide	3.75	4.39	4.42	117	118	70.0-130			0.681	25
Carbon tetrachloride	3.75	4.34	4.33	116	115	70.0-130			0.231	25
Chlorobenzene	3.75	4.30	4.35	115	116	70.0-130			1.16	25
Chloroethane	3.75	4.34	4.40	116	117	70.0-130			1.37	25
Chloroform	3.75	4.37	4.43	117	118	70.0-130			1.36	25
Chloromethane	3.75	4.57	4.53	122	121	70.0-130			0.879	25
2-Chlorotoluene	3.75	4.34	4.34	116	116	70.0-130			0.000	25
Cyclohexane	3.75	4.33	4.35	115	116	70.0-130			0.461	25
Dibromochloromethane	3.75	4.30	4.32	115	115	70.0-130			0.464	25
1,2-Dibromoethane	3.75	4.28	4.28	114	114	70.0-130			0.000	25
1,2-Dichlorobenzene	3.75	4.24	4.24	113	113	70.0-130			0.000	25
1,3-Dichlorobenzene	3.75	4.23	4.24	113	113	70.0-130			0.236	25
1,4-Dichlorobenzene	3.75	4.27	4.26	114	114	70.0-130			0.234	25
1,2-Dichloroethane	3.75	4.49	4.50	120	120	70.0-130			0.222	25
1,1-Dichloroethane	3.75	4.48	4.46	119	119	70.0-130			0.447	25
1,1-Dichloroethene	3.75	4.43	4.41	118	118	70.0-130			0.452	25
cis-1,2-Dichloroethene	3.75	4.45	4.47	119	119	70.0-130			0.448	25
trans-1,2-Dichloroethene	3.75	4.49	4.53	120	121	70.0-130			0.887	25
1,2-Dichloropropane	3.75	4.45	4.46	119	119	70.0-130			0.224	25
cis-1,3-Dichloropropene	3.75	4.24	4.29	113	114	70.0-130			1.17	25
trans-1,3-Dichloropropene	3.75	4.30	4.33	115	115	70.0-130			0.695	25
1,4-Dioxane	3.75	4.25	4.23	113	113	70.0-140			0.472	25
Ethanol	3.75	4.16	4.24	111	113	55.0-148			1.90	25
Ethylbenzene	3.75	4.33	4.37	115	117	70.0-130			0.920	25
4-Ethyltoluene	3.75	4.31	4.33	115	115	70.0-130			0.463	25
Trichlorofluoromethane	3.75	4.34	4.34	116	116	70.0-130			0.000	25
Dichlorodifluoromethane	3.75	4.48	4.48	119	119	64.0-139			0.000	25
1,1,2-Trichlorotrifluoroethane	3.75	4.33	4.36	115	116	70.0-130			0.690	25
1,2-Dichlorotetrafluoroethane	3.75	4.43	4.45	118	119	70.0-130			0.450	25
Heptane	3.75	4.61	4.56	123	122	70.0-130			1.09	25
Hexachloro-1,3-butadiene	3.75	3.98	4.01	106	107	70.0-151			0.751	25
Isopropylbenzene	3.75	4.29	4.28	114	114	70.0-130			0.233	25
Methylene Chloride	3.75	4.41	4.45	118	119	70.0-130			0.903	25
Methyl Butyl Ketone	3.75	4.65	4.63	124	123	70.0-149			0.431	25
Methyl Ethyl Ketone	3.75	4.40	4.39	117	117	70.0-130			0.228	25
4-Methyl-2-pentanone (MIBK)	3.75	4.57	4.52	122	121	70.0-139			1.10	25
Methyl Methacrylate	3.75	4.38	4.28	117	114	70.0-130			2.31	25

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

(LCS) R3780598-1 04/13/22 08:38 • (LCSD) R3780598-2 04/13/22 09:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	4.37	4.36	117	116	70.0-130			0.229	25
Naphthalene	3.75	4.26	4.27	114	114	70.0-159			0.234	25
2-Propanol	3.75	4.39	4.40	117	117	70.0-139			0.228	25
Propene	3.75	4.56	4.51	122	120	64.0-144			1.10	25
Styrene	3.75	4.30	4.33	115	115	70.0-130			0.695	25
1,1,2,2-Tetrachloroethane	3.75	4.32	4.36	115	116	70.0-130			0.922	25
Tetrachloroethylene	3.75	4.20	4.18	112	111	70.0-130			0.477	25
Tetrahydrofuran	3.75	4.50	4.59	120	122	70.0-137			1.98	25
Toluene	3.75	4.28	4.35	114	116	70.0-130			1.62	25
1,2,4-Trichlorobenzene	3.75	4.15	4.11	111	110	70.0-160			0.969	25
1,1,1-Trichloroethane	3.75	4.35	4.38	116	117	70.0-130			0.687	25
1,1,2-Trichloroethane	3.75	4.34	4.35	116	116	70.0-130			0.230	25
Trichloroethylene	3.75	4.22	4.22	113	113	70.0-130			0.000	25
1,2,4-Trimethylbenzene	3.75	4.26	4.31	114	115	70.0-130			1.17	25
1,3,5-Trimethylbenzene	3.75	4.29	4.32	114	115	70.0-130			0.697	25
2,2,4-Trimethylpentane	3.75	4.45	4.49	119	120	70.0-130			0.895	25
Vinyl chloride	3.75	4.42	4.41	118	118	70.0-130			0.227	25
Vinyl Bromide	3.75	4.27	4.31	114	115	70.0-130			0.932	25
Vinyl acetate	3.75	4.63	4.77	123	127	70.0-130			2.98	25
m&p-Xylene	7.50	8.62	8.66	115	115	70.0-130			0.463	25
o-Xylene	3.75	4.24	4.24	113	113	70.0-130			0.000	25
TPH (GC/MS) Low Fraction	203	253	254	125	125	70.0-130			0.394	25
(S) 1,4-Bromofluorobenzene				*99.5*	*99.9*	*60.0-140*				

Method Blank (MB)

(MB) R3780600-3 04/13/22 09:56

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	*99.3*			*60.0-140*

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

(LCS) R3780600-1 04/13/22 08:38 • (LCSD) R3780600-2 04/13/22 09:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Hexane	3.75	4.43	4.52	118	121	70.0-130			2.01	25
(S) 1,4-Bromofluorobenzene				*99.5*	*99.9*	*60.0-140*				

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

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

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.

Chain of Custody Record

Ensolum, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705

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

Report to: **Beaux Jennings**

Email To: **bjennings@ensolum.com**

Project Description: Levey Well

City/State Collected: Hobbs, New Mexico

Please Circle: PT MT CT ET

Phone: **210-219-8858**

Client Project # 03B1417001

Lab Project # **ENSOLUMMTX-SUMMA**

Collected by (print): Aaron Marquez

Site/Facility ID # 03B1417001

P.O. # 03B1417001

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative: TO-15 Summa	Pres Chk	Remarks	Sample # (lab only)
Levey Well	G	Air	—	4.6.22	1157	1	X			-01

NFE
AAM

Chain of Custody

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1486920

Table #

Acctnum: **ENSOLUMMTX**

Template: **T180734**

Prelogin: **P827709**

PM: **134 - Mark W. Beasley**

PB:

Shipped Via:

* 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 # 271767760044

Sample Receipt Checklist

COC Seal Present/Intact:	__NP __Y __N
COC Signed/Accurate:	__Y __N
Bottles arrive intact:	__Y __N
Correct bottles used:	__Y __N
Sufficient volume sent:	__Y __N
If Applicable	
VOA Zero Headspace:	__Y __N
Preservation Correct/Checked:	__Y __N
RAD Screen <0.5 mR/hr:	__Y __N

	Date:	Time:		
Relinquished by : (Signature)	4.6.22	0:20	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	4/7/22	1700	Received by: (Signature) FedEx	Temp: Amb °C Bottles Received: If preservation required by Login: Date/Time
Relinquished by : (Signature)	4/8/22	0930	Received for lab by: (Signature)	Date: 4/8/22 Time: 0930 Hold: Condition: NCF / OK

Released to Imaging: 3/20/2024 4:29:15 PM
Received by OCD: 11/8/2023 2:18:22 PM

Pace Analytical®	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

Client Name: ENSOLUMMTX Project Work order (place label): L1480920

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other: _____

Tracking #: 271767766044

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☐ Blue ☐ No ice ☑

Receiving Lab 1 Thermometer Used: _____ Cooler Temp °C: Amb (Recorded) Amb (Correction Factor) Amb (Actual)

Receiving Lab 2 Thermometer Used: _____ Cooler Temp °C: _____(Recorded) _____(Correction Factor) _____(Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: JW Date: 4/8/22

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☑ No ☐
Short HT analyses (<72 hrs)	Yes ☐ No ☑

Login Person: JW Date: 4/8/22

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips:_____ Residual Chlorine Present Cl Strips:_____ Sulfide Present Lead Acetate Strips:_____	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑
Project sampled in USDA Regulated Area outside of Texas State Sampled:_____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): _____ Date: _____

Ensolum, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705

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

Pres Chk

Report to: **Beaux Jennings**

Email To: **bjennings@ensolum.com**

Project Description: Levey Well

City/State Collected: Hobbs, New Mexico

Please Circle: PT MT CT ET

Phone: **210-219-8858**

Client Project # 03B1417001

Lab Project # **ENSOLUMMTX-SUMMA**

Collected by (print): Aaron Marquez

Site/Facility ID # 03B1417001

P.O. # 03B1417001

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y ___

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

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Analysis / Container / Preservative	Remarks	Sample # (lab only)
Levey Well	G	Air	—	4.6.22	1157	1	X			-01

NFE
AAM

Rel: [signature] 4/11/22 1700
Rec: FedEx 4/11/22 1700

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1486420

Table #

Acctnum: **ENSOLUMMTX**

Template: **T180734**

Prelogin: **P827709**

PM: **134 - Mark W. Beasley**

PB:

Shipped Via:

* 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 # 271767760044

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date: 4.6.22	Time: 0:20	Received by: (Signature)
Relinquished by : (Signature)	Date: 4/7/22	Time: 1700	Received by: (Signature) FedEx
Relinquished by : (Signature)	Date: 4/8/22	Time: 0930	Received for lab by: (Signature)

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: Amb °C Bottles Received:

Date: 4/8/22 Time: 0930

4/12/22 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Released to Imaging: 3/20/2024 4:29:15 PM
Received by OCD: 11/8/2023 2:18:22 PM

Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

Client Name: ENSOLUMMTX Project Work order (place label): L1480920

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other: _____

Tracking #: 271767766044

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☐ Blue ☐ No ice ☑

Receiving Lab 1 Thermometer Used: _____ Cooler Temp °C: Amb (Recorded) Amb (Correction Factor) Amb (Actual)

Receiving Lab 2 Thermometer Used: _____ Cooler Temp °C: _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: JW Date: 4/8/22

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☑ No ☐
Short HT analyses (<72 hrs)	Yes ☐ No ☑

Login Person: JW Date: 4/8/22

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips: _____ Residual Chlorine Present Cl Strips: _____ Sulfide Present Lead Acetate Strips: _____	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑
Project sampled in USDA Regulated Area outside of Texas State Sampled: _____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): _____ Date: _____

ANALYTICAL REPORT

April 15, 2022

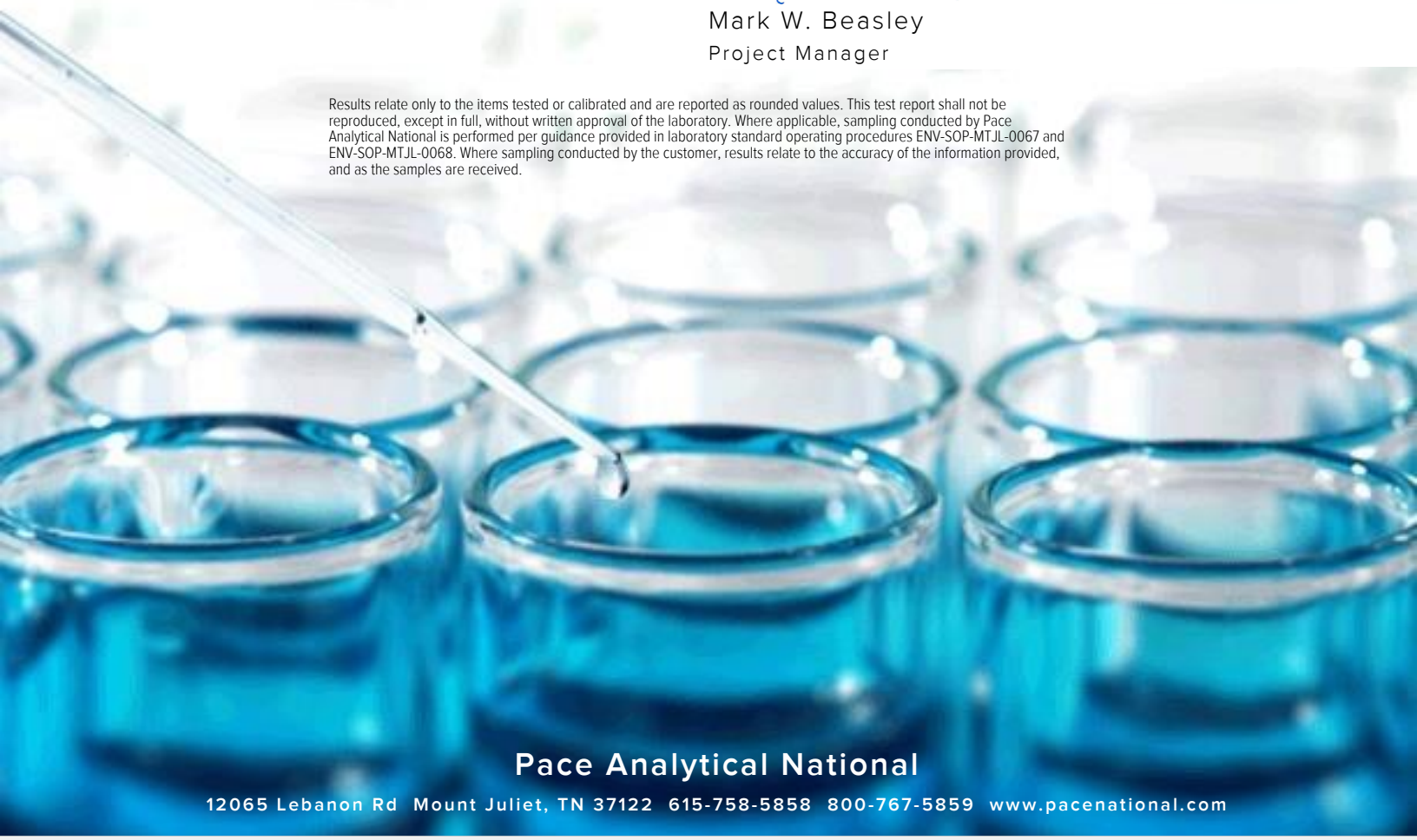
Ensolum, LLC

Sample Delivery Group:	L1481376
Samples Received:	04/12/2022
Project Number:	03B1417001
Description:	Levey Well
Site:	03B147001
Report To:	Beaux Jennings 705 W. Wadley Ave, Ste 210 Midland, TX 79705

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

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



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

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Released to Imaging: 3/20/2024 4:29:15 PM

LEVEY WELL L1481376-01 Air

Collected by: Aaron Marquez | Collected date/time: 04/11/22 09:24 | Received date/time: 04/12/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1847685	80	04/13/22 16:35	04/13/22 16:35	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1848546	2000	04/14/22 17:50	04/14/22 17:50	MBF	Mt. Juliet, TN

LEVEY WELL L1481376-02 Air

Collected by: Aaron Marquez | Collected date/time: 04/11/22 09:49 | Received date/time: 04/12/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1847685	1	04/13/22 14:29	04/13/22 14:29	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1848469	20	04/14/22 23:57	04/14/22 23:57	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1849135	100	04/15/22 14:06	04/15/22 14:06	MBF	Mt. Juliet, TN

LEVEY WELL L1481376-03 Air

Collected by: Aaron Marquez | Collected date/time: 04/11/22 10:30 | Received date/time: 04/12/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1847685	1	04/13/22 15:12	04/13/22 15:12	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1848469	10	04/14/22 23:19	04/14/22 23:19	DAH	Mt. Juliet, TN

LEVEY WELL L1481376-04 Air

Collected by: Aaron Marquez | Collected date/time: 04/11/22 11:55 | Received date/time: 04/12/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1847685	1	04/13/22 15:55	04/13/22 15:55	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1848546	10	04/14/22 14:50	04/14/22 14:50	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1848821	100	04/14/22 19:23	04/14/22 19:23	MBF	Mt. Juliet, TN

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

Mark W. Beasley
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

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

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

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

Mark W. Beasley
Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 04/15/2022 15:39
Project Name: Levey Well	Laboratory Job Number: L1481376-01, 02, 03 and 04
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1847685, WG1848469, WG1848546, WG1848821 and WG1849135

#[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).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 04/15/2022 15:39
Project Name: Levey Well	Laboratory Job Number: L1481376-01, 02, 03 and 04
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1847685, WG1848469, WG1848546, WG1848821 and WG1849135

#[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).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 04/15/2022 15:39
Project Name: Levey Well	Laboratory Job Number: L1481376-01, 02, 03 and 04
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1847685, WG1848469, WG1848546, WG1848821 and WG1849135

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).

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	100	238	ND	ND		80	WG1847685
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1847685
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1847685
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1847685
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1847685
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1847685
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1847685
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1847685
Carbon disulfide	75-15-0	76.10	16.0	49.8	ND	ND		80	WG1847685
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1847685
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1847685
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1847685
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1847685
Chloromethane	74-87-3	50.50	16.0	33.0	ND	ND		80	WG1847685
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1847685
Cyclohexane	110-82-7	84.20	400	1380	11500	39600		2000	WG1848546
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1847685
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1847685
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1847685
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1847685
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1847685
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1847685
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1847685
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1847685
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1847685
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1847685
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1847685
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1847685
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1847685
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1847685
Ethanol	64-17-5	46.10	100	189	800	1510		80	WG1847685
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1847685
4-Ethyltoluene	622-96-8	120	16.0	78.5	ND	ND		80	WG1847685
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1847685
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1847685
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1847685
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1847685
Heptane	142-82-5	100	400	1640	9140	37400		2000	WG1848546
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1847685
n-Hexane	110-54-3	86.20	1260	4440	137000	483000		2000	WG1848546
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1847685
Methylene Chloride	75-09-2	84.90	16.0	55.6	ND	ND		80	WG1847685
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1847685
2-Butanone (MEK)	78-93-3	72.10	100	295	ND	ND		80	WG1847685
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1847685
Methyl methacrylate	80-62-6	100.12	16.0	65.5	ND	ND		80	WG1847685
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1847685
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1847685
2-Propanol	67-63-0	60.10	100	246	2790	6860		80	WG1847685
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1847685
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1847685
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1847685
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1847685
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1847685
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1847685
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1847685

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	16.0	87.0	ND	ND		80	WG1847685
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1847685
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1847685
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	ND	ND		80	WG1847685
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	ND	ND		80	WG1847685
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1847685
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1847685
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1847685
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1847685
m&p-Xylene	1330-20-7	106	32.0	139	ND	ND		80	WG1847685
o-Xylene	95-47-6	106	16.0	69.4	ND	ND		80	WG1847685
TPH (GC/MS) Low Fraction	8006-61-9	101	16000	66100	353000	1460000		80	WG1847685
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.5*				WG1847685
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*91.8*				WG1848546

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	22.0	52.3		1	WG1847685
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1847685
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1847685
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1847685
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1847685
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1847685
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1847685
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1847685
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.349	1.09		1	WG1847685
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1847685
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1847685
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1847685
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1847685
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1847685
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1847685
Cyclohexane	110-82-7	84.20	4.00	13.8	926	3190		20	WG1848469
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1847685
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1847685
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1847685
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1847685
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1847685
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1847685
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1847685
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1847685
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1847685
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1847685
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1847685
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1847685
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1847685
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1847685
Ethanol	64-17-5	46.10	1.25	2.36	4.24	7.99		1	WG1847685
Ethylbenzene	100-41-4	106	0.200	0.867	0.488	2.12		1	WG1847685
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1847685
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.207	1.16		1	WG1847685
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.285	1.41		1	WG1847685
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1847685
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1847685
Heptane	142-82-5	100	4.00	16.4	1520	6220		20	WG1848469
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1847685
n-Hexane	110-54-3	86.20	63.0	222	689	2430		100	WG1849135
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.223	1.10		1	WG1847685
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1847685
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1847685
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	12.8	37.7		1	WG1847685
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1847685
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1847685
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1847685
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1847685
2-Propanol	67-63-0	60.10	1.25	3.07	11.2	27.5		1	WG1847685
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1847685
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1847685
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1847685
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1847685
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1847685
Toluene	108-88-3	92.10	0.500	1.88	1.49	5.61		1	WG1847685
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1847685

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

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1847685
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1847685
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1847685
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.15	5.64		1	WG1847685
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.31	6.43		1	WG1847685
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1847685
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1847685
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1847685
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1847685
m&p-Xylene	1330-20-7	106	0.400	1.73	1.03	4.47		1	WG1847685
o-Xylene	95-47-6	106	0.200	0.867	0.670	2.90		1	WG1847685
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	33800	140000		20	WG1848469
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1847685
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG1848469
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*94.0*				WG1849135

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	17.3	41.1		1	WG1847685
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1847685
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1847685
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1847685
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1847685
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1847685
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1847685
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1847685
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1847685
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1847685
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1847685
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1847685
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1847685
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1847685
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1847685
Cyclohexane	110-82-7	84.20	0.200	0.689	54.7	188		1	WG1847685
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1847685
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1847685
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1847685
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1847685
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1847685
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1847685
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1847685
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1847685
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1847685
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1847685
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1847685
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1847685
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1847685
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1847685
Ethanol	64-17-5	46.10	1.25	2.36	12.7	23.9		1	WG1847685
Ethylbenzene	100-41-4	106	0.200	0.867	0.311	1.35		1	WG1847685
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1847685
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.250	1.40		1	WG1847685
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.349	1.73		1	WG1847685
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1847685
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1847685
Heptane	142-82-5	100	0.200	0.818	89.6	366		1	WG1847685
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1847685
n-Hexane	110-54-3	86.20	6.30	22.2	362	1280		10	WG1848469
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1847685
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1847685
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1847685
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	4.86	14.3		1	WG1847685
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1847685
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1847685
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1847685
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1847685
2-Propanol	67-63-0	60.10	1.25	3.07	9.98	24.5		1	WG1847685
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1847685
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1847685
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1847685
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1847685
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1847685
Toluene	108-88-3	92.10	0.500	1.88	4.38	16.5		1	WG1847685
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1847685

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

Released to Imaging: 3/20/2024 4:29:15 PM

Received by OCD: 11/8/2023 2:18:22 PM

LEVEL WELL
Collected date/time: 04/11/22 10:30
L1481376

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	0.200	1.09	ND	ND		1	WG1847685
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1847685
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1847685
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.672	3.30		1	WG1847685
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.742	3.64		1	WG1847685
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1847685
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1847685
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1847685
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1847685
m&p-Xylene	1330-20-7	106	0.400	1.73	0.812	3.52		1	WG1847685
o-Xylene	95-47-6	106	0.200	0.867	0.448	1.94		1	WG1847685
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	2180	9010		1	WG1847685
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.5*				WG1847685
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.6*				WG1848469

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

Released to Imaging: 3/20/2024 4:29:15 PM

Received by OCD: 11/8/2023 2:18:22 PM

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	1.25	2.97	77.2	183		1	WG1847685
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1847685
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1847685
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1847685
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1847685
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1847685
Bromomethane	74-83-9	94.90	0.200	0.776	0.518	2.01		1	WG1847685
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1847685
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.26	7.03		1	WG1847685
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1847685
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1847685
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1847685
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1847685
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1847685
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1847685
Cyclohexane	110-82-7	84.20	2.00	6.89	205	706		10	WG1848546
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1847685
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1847685
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1847685
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1847685
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1847685
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1847685
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1847685
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1847685
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1847685
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1847685
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1847685
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1847685
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1847685
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1847685
Ethanol	64-17-5	46.10	1.25	2.36	7.75	14.6		1	WG1847685
Ethylbenzene	100-41-4	106	0.200	0.867	0.341	1.48		1	WG1847685
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1847685
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.220	1.24		1	WG1847685
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.295	1.46		1	WG1847685
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1847685
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1847685
Heptane	142-82-5	100	2.00	8.18	227	928		10	WG1848546
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1847685
n-Hexane	110-54-3	86.20	63.0	222	2970	10500		100	WG1848821
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.210	1.03		1	WG1847685
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1847685
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1847685
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	14.4	42.5		1	WG1847685
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	1.30	5.32		1	WG1847685
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1847685
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1847685
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1847685
2-Propanol	67-63-0	60.10	1.25	3.07	56.7	139		1	WG1847685
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1847685
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1847685
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1847685
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1847685
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1847685
Toluene	108-88-3	92.10	0.500	1.88	4.97	18.7		1	WG1847685
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1847685

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
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Released to Imaging: 3/20/2024 4:29:15 PM

Received by OCD: 11/8/2023 2:18:22 PM

LEVEL WELL
Collected date/time: 04/11/22 11:55
L1481376

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	0.200	1.09	ND	ND		1	WG1847685
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1847685
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1847685
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.04	5.10		1	WG1847685
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.760	3.73		1	WG1847685
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1847685
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1847685
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1847685
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1847685
m&p-Xylene	1330-20-7	106	0.400	1.73	1.04	4.51		1	WG1847685
o-Xylene	95-47-6	106	0.200	0.867	0.459	1.99		1	WG1847685
TPH (GC/MS) Low Fraction	8006-61-9	101	2000	8260	7570	31300		10	WG1848546
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.2*				WG1847685
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.4*				WG1848546
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*97.1*				WG1848821

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

Released to Imaging: 3/20/2024 4:29:15 PM

Method Blank (MB)

(MB) R3780638-3 04/13/22 10:07

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

Method Blank (MB)

(MB) R3780638-3 04/13/22 10:07

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.238	J	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	*96.8*			*60.0-140*

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

(LCS) R3780638-1 04/13/22 08:44 • (LCSD) R3780638-2 04/13/22 09:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.73	3.79	99.5	101	70.0-130			1.60	25
Allyl Chloride	3.75	3.51	3.93	93.6	105	70.0-130			11.3	25
Benzene	3.75	3.85	3.90	103	104	70.0-130			1.29	25
Benzyl Chloride	3.75	3.99	4.01	106	107	70.0-152			0.500	25
Bromodichloromethane	3.75	3.76	3.85	100	103	70.0-130			2.37	25

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

(LCS) R3780638-1 04/13/22 08:44 • (LCSD) R3780638-2 04/13/22 09:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	3.75	3.70	3.78	98.7	101	70.0-130			2.14	25
Bromomethane	3.75	3.89	3.96	104	106	70.0-130			1.78	25
1,3-Butadiene	3.75	3.79	3.86	101	103	70.0-130			1.83	25
Carbon disulfide	3.75	3.98	4.08	106	109	70.0-130			2.48	25
Carbon tetrachloride	3.75	3.99	3.94	106	105	70.0-130			1.26	25
Chlorobenzene	3.75	3.93	3.96	105	106	70.0-130			0.760	25
Chloroethane	3.75	3.82	3.97	102	106	70.0-130			3.85	25
Chloroform	3.75	3.82	3.83	102	102	70.0-130			0.261	25
Chloromethane	3.75	3.64	3.73	97.1	99.5	70.0-130			2.44	25
2-Chlorotoluene	3.75	3.85	3.88	103	103	70.0-130			0.776	25
Cyclohexane	3.75	3.88	3.86	103	103	70.0-130			0.517	25
Dibromochloromethane	3.75	3.86	3.95	103	105	70.0-130			2.30	25
1,2-Dibromoethane	3.75	3.88	3.93	103	105	70.0-130			1.28	25
1,2-Dichlorobenzene	3.75	3.90	3.93	104	105	70.0-130			0.766	25
1,3-Dichlorobenzene	3.75	3.93	4.03	105	107	70.0-130			2.51	25
1,4-Dichlorobenzene	3.75	3.87	3.91	103	104	70.0-130			1.03	25
1,2-Dichloroethane	3.75	3.95	4.01	105	107	70.0-130			1.51	25
1,1-Dichloroethane	3.75	3.73	3.76	99.5	100	70.0-130			0.801	25
1,1-Dichloroethene	3.75	3.78	3.89	101	104	70.0-130			2.87	25
cis-1,2-Dichloroethene	3.75	3.87	3.75	103	100	70.0-130			3.15	25
trans-1,2-Dichloroethene	3.75	3.76	3.87	100	103	70.0-130			2.88	25
1,2-Dichloropropane	3.75	3.73	3.89	99.5	104	70.0-130			4.20	25
cis-1,3-Dichloropropene	3.75	3.87	3.88	103	103	70.0-130			0.258	25
trans-1,3-Dichloropropene	3.75	4.00	3.96	107	106	70.0-130			1.01	25
1,4-Dioxane	3.75	3.80	4.05	101	108	70.0-140			6.37	25
Ethanol	3.75	3.65	3.70	97.3	98.7	55.0-148			1.36	25
Ethylbenzene	3.75	3.83	3.91	102	104	70.0-130			2.07	25
4-Ethyltoluene	3.75	3.93	4.00	105	107	70.0-130			1.77	25
Trichlorofluoromethane	3.75	3.85	3.93	103	105	70.0-130			2.06	25
Dichlorodifluoromethane	3.75	3.57	3.56	95.2	94.9	64.0-139			0.281	25
1,1,2-Trichlorotrifluoroethane	3.75	3.77	3.91	101	104	70.0-130			3.65	25
1,2-Dichlorotetrafluoroethane	3.75	3.87	3.96	103	106	70.0-130			2.30	25
Heptane	3.75	3.67	3.72	97.9	99.2	70.0-130			1.35	25
Hexachloro-1,3-butadiene	3.75	3.97	4.01	106	107	70.0-151			1.00	25
Isopropylbenzene	3.75	3.81	3.95	102	105	70.0-130			3.61	25
Methylene Chloride	3.75	3.63	3.67	96.8	97.9	70.0-130			1.10	25
Methyl Butyl Ketone	3.75	3.88	3.87	103	103	70.0-149			0.258	25
Methyl Ethyl Ketone	3.75	3.83	4.00	102	107	70.0-130			4.34	25
4-Methyl-2-pentanone (MIBK)	3.75	3.86	3.98	103	106	70.0-139			3.06	25
Methyl Methacrylate	3.75	3.84	3.82	102	102	70.0-130			0.522	25

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

(LCS) R3780638-1 04/13/22 08:44 • (LCSD) R3780638-2 04/13/22 09:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.81	3.79	102	101	70.0-130			0.526	25
Naphthalene	3.75	4.08	4.07	109	109	70.0-159			0.245	25
2-Propanol	3.75	3.80	3.85	101	103	70.0-139			1.31	25
Propene	3.75	3.59	3.68	95.7	98.1	64.0-144			2.48	25
Styrene	3.75	3.90	3.92	104	105	70.0-130			0.512	25
1,1,2,2-Tetrachloroethane	3.75	3.78	3.86	101	103	70.0-130			2.09	25
Tetrachloroethylene	3.75	3.97	4.04	106	108	70.0-130			1.75	25
Tetrahydrofuran	3.75	3.70	3.76	98.7	100	70.0-137			1.61	25
Toluene	3.75	3.89	3.98	104	106	70.0-130			2.29	25
1,2,4-Trichlorobenzene	3.75	4.05	4.06	108	108	70.0-160			0.247	25
1,1,1-Trichloroethane	3.75	3.88	3.92	103	105	70.0-130			1.03	25
1,1,2-Trichloroethane	3.75	3.83	3.88	102	103	70.0-130			1.30	25
Trichloroethylene	3.75	3.87	4.01	103	107	70.0-130			3.55	25
1,2,4-Trimethylbenzene	3.75	4.13	4.16	110	111	70.0-130			0.724	25
1,3,5-Trimethylbenzene	3.75	3.96	4.10	106	109	70.0-130			3.47	25
2,2,4-Trimethylpentane	3.75	3.76	3.80	100	101	70.0-130			1.06	25
Vinyl chloride	3.75	3.80	3.83	101	102	70.0-130			0.786	25
Vinyl Bromide	3.75	3.82	3.93	102	105	70.0-130			2.84	25
Vinyl acetate	3.75	3.66	3.86	97.6	103	70.0-130			5.32	25
m&p-Xylene	7.50	7.70	7.89	103	105	70.0-130			2.44	25
o-Xylene	3.75	3.86	3.91	103	104	70.0-130			1.29	25
TPH (GC/MS) Low Fraction	203	214	219	105	108	70.0-130			2.31	25
(S) 1,4-Bromofluorobenzene				*98.3*	*98.5*	*60.0-140*				

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

Method Blank (MB)

(MB) R3781157-3 04/14/22 10:14

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
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	*99.3*			*60.0-140*

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

(LCS) R3781157-1 04/14/22 08:55 • (LCSD) R3781157-2 04/14/22 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 %
Cyclohexane	3.75	4.54	4.60	121	123	70.0-130			1.31	25
Heptane	3.75	4.67	4.67	125	125	70.0-130			0.000	25
n-Hexane	3.75	4.65	4.68	124	125	70.0-130			0.643	25
TPH (GC/MS) Low Fraction	203	263	263	130	130	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				*99.5*	*99.6*	*60.0-140*				

Method Blank (MB)

(MB) R3781204-3 04/14/22 10:05

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
TPH (GC/MS) Low Fraction	61.2	J	39.7	200
(S) 1,4-Bromofluorobenzene	*94.6*			*60.0-140*

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

(LCS) R3781204-1 04/14/22 09:01 • (LCSD) R3781204-2 04/14/22 09:34

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	3.84	3.77	102	101	70.0-130			1.84	25
Heptane	3.75	3.77	3.72	101	99.2	70.0-130			1.34	25
n-Hexane	3.75	3.60	3.67	96.0	97.9	70.0-130			1.93	25
TPH (GC/MS) Low Fraction	203	238	235	117	116	70.0-130			1.27	25
(S) 1,4-Bromofluorobenzene				*100*	*102*	*60.0-140*				

Method Blank (MB)

(MB) R3781341-3 04/14/22 10:05

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	*94.6*			*60.0-140*

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

(LCS) R3781341-1 04/14/22 09:01 • (LCSD) R3781341-2 04/14/22 09:34

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Hexane	3.75	3.60	3.67	96.0	97.9	70.0-130			1.93	25
(S) 1,4-Bromofluorobenzene				*100*	*102*	*60.0-140*				

Method Blank (MB)

(MB) R3781493-3 04/15/22 10:19

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	*94.2*			*60.0-140*

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

(LCS) R3781493-1 04/15/22 08:56 • (LCSD) R3781493-2 04/15/22 09:38

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Hexane	3.75	4.78	4.75	127	127	70.0-130			0.630	25
(S) 1,4-Bromofluorobenzene				*96.8*	*97.0*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Ensolum, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705

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

Pres Chk

Report to: **Beaux Jennings**

Email To: **bjennings@ensolum.com**

Project Description: Levey well

City/State Collected: Hobbs, New Mexico

Please Circle: PT (MT) CT ET

Phone: **210-219-8858**

Client Project # 03B141001

Lab Project # **ENSOLUMMTX-SUMMA**

Collected by (print): Aaron Marquez

Site/Facility ID # 03B141001

P.O. # 03B141001

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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

Date Results Needed

Quote #

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Remarks	Sample # (lab only)
Levey Well 1	G	Air	-	4-11-22	0924	1	X		-01
1	1	1	-	1	0949	1	X		-02
1	1	1	-	1	1030	1	X		-03
Levey Well 1	G	Air	-	4-11-22	1155	1	X		-04

NFE AAM 4-11-22

Analysis / Container / Preservative

Chain of Custody

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1481376

D177

Acctnum: **ENSOLUMMTX**

Template: **T180734**

Prelogin: **P827709**

PM: **134 - Mark W. Beasley**

PB:

Shipped Via:

Sample Receipt Checklist

		If Applicable	
COC Seal Present/Intact:	Y N	VOA Zero Headspace:	Y N
COC Signed/Accurate:	Y N	Pres.Correct/Check:	Y N
Bottles arrive intact:	Y N		
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RAD Screen <0.5 mR/hr:	Y N		

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

Remarks:

4 Templey

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 5719 6177 8488 / 8503

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	4-11-22	1300			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
	4/11/22	1700	FedEx	AMB	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK
			D. Ramsey	4-12-22	930		

ANALYTICAL REPORT

April 25, 2022

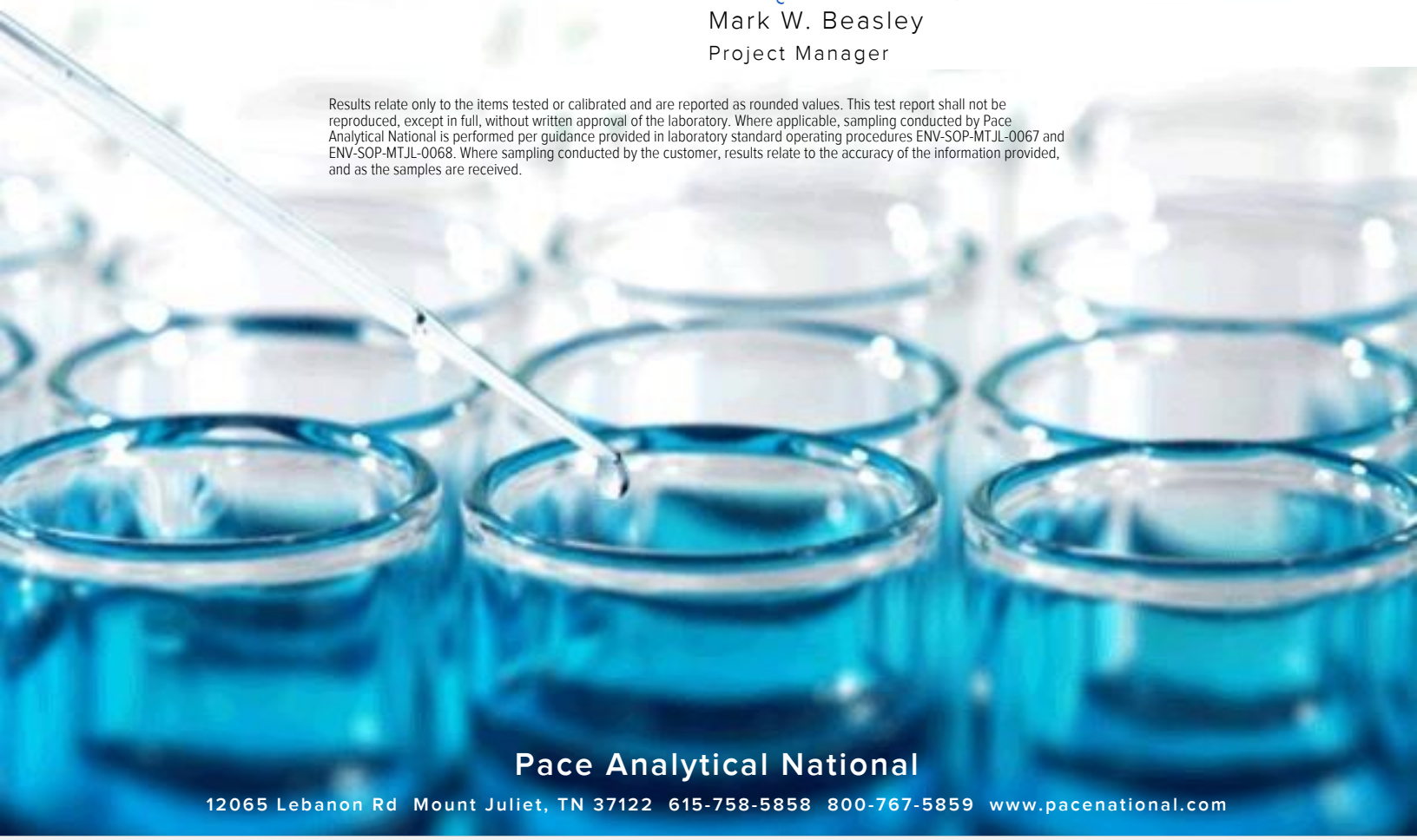
Ensolum, LLC

Sample Delivery Group:	L1485385
Samples Received:	04/22/2022
Project Number:	03B1417001
Description:	Levey Well
Site:	03B1417001
Report To:	Beaux Jennings 705 W. Wadley Ave, Ste 210 Midland, TX 79705

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

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



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

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SAMPLE SUMMARY

LEVEY WELL L1485385-01 Air

Collected by: Aaron Marquez
Collected date/time: 04/20/22 11:57
Received date/time: 04/22/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1853255	80	04/23/22 21:53	04/23/22 21:53	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1853493	1000	04/24/22 13:57	04/24/22 13:57	MBF	Mt. Juliet, TN

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

CASE NARRATIVE

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

Mark W. Beasley
Project Manager

Released to Imaging: 3/20/2024 4:29:15 PM

Revised May 2010

Laboratory Data Package Cover Page

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

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

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

Mark W. Beasley
Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 04/25/2022 14:28
Project Name: Levey Well	Laboratory Job Number: L1485385-01
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1853255 and WG1853493

#[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).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 04/25/2022 14:28
Project Name: Levey Well	Laboratory Job Number: L1485385-01
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1853255 and WG1853493

#[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).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 04/25/2022 14:28
Project Name: Levey Well	Laboratory Job Number: L1485385-01
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1853255 and WG1853493

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).

Received by OCD: 11/8/2023 2:18:22 PM

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	100	238	ND	ND		80	WG1853255
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1853255
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1853255
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1853255
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1853255
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1853255
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1853255
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1853255
Carbon disulfide	75-15-0	76.10	16.0	49.8	ND	ND		80	WG1853255
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1853255
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1853255
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1853255
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1853255
Chloromethane	74-87-3	50.50	16.0	33.0	ND	ND		80	WG1853255
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1853255
Cyclohexane	110-82-7	84.20	16.0	55.1	4640	16000		80	WG1853255
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1853255
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1853255
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1853255
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1853255
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1853255
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1853255
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1853255
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1853255
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1853255
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1853255
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1853255
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1853255
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1853255
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1853255
Ethanol	64-17-5	46.10	100	189	507	956		80	WG1853255
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1853255
4-Ethyltoluene	622-96-8	120	16.0	78.5	ND	ND		80	WG1853255
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1853255
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1853255
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1853255
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1853255
Heptane	142-82-5	100	16.0	65.4	6590	27000		80	WG1853255
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1853255
n-Hexane	110-54-3	86.20	630	2220	40800	144000		1000	WG1853493
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1853255
Methylene Chloride	75-09-2	84.90	16.0	55.6	ND	ND		80	WG1853255
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1853255
2-Butanone (MEK)	78-93-3	72.10	100	295	ND	ND		80	WG1853255
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1853255
Methyl methacrylate	80-62-6	100.12	16.0	65.5	587	2400		80	WG1853255
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1853255
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1853255
2-Propanol	67-63-0	60.10	100	246	2380	5850		80	WG1853255
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1853255
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1853255
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1853255
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1853255
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1853255
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1853255
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1853255

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Received by OCD: 11/8/2023 2:18:22 PM

LEVEL WELL
Collected date/time: 04/20/22 11:57
L1485385

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	16.0	87.0	ND	ND		80	WG1853255
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1853255
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1853255
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	ND	ND		80	WG1853255
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	19.0	93.3		80	WG1853255
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1853255
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1853255
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1853255
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1853255
m&p-Xylene	1330-20-7	106	32.0	139	ND	ND		80	WG1853255
o-Xylene	95-47-6	106	16.0	69.4	ND	ND		80	WG1853255
TPH (GC/MS) Low Fraction	8006-61-9	101	16000	66100	178000	735000		80	WG1853255
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.5*				WG1853255
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.1*				WG1853493

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

Released to Imaging: 3/20/2024 4:29:15 PM

Method Blank (MB)

(MB) R3784426-3 04/23/22 08:20

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

Method Blank (MB)

(MB) R3784426-3 04/23/22 08:20

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	*98.2*			*60.0-140*

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

(LCS) R3784426-1 04/23/22 07:02 • (LCSD) R3784426-2 04/23/22 07:42

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.28	4.16	114	111	70.0-130			2.84	25
Allyl Chloride	3.75	4.52	4.34	121	116	70.0-130			4.06	25
Benzene	3.75	4.38	4.27	117	114	70.0-130			2.54	25
Benzyl Chloride	3.75	4.38	4.27	117	114	70.0-152			2.54	25
Bromodichloromethane	3.75	4.32	4.21	115	112	70.0-130			2.58	25

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

(LCS) R3784426-1 04/23/22 07:02 • (LCSD) R3784426-2 04/23/22 07:42

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	4.39	4.25	117	113	70.0-130			3.24	25
Bromomethane	3.75	4.41	4.26	118	114	70.0-130			3.46	25
1,3-Butadiene	3.75	4.22	4.06	113	108	70.0-130			3.86	25
Carbon disulfide	3.75	4.47	4.36	119	116	70.0-130			2.49	25
Carbon tetrachloride	3.75	4.34	4.21	116	112	70.0-130			3.04	25
Chlorobenzene	3.75	4.40	4.24	117	113	70.0-130			3.70	25
Chloroethane	3.75	4.31	4.24	115	113	70.0-130			1.64	25
Chloroform	3.75	4.35	4.21	116	112	70.0-130			3.27	25
Chloromethane	3.75	4.30	4.24	115	113	70.0-130			1.41	25
2-Chlorotoluene	3.75	4.37	4.27	117	114	70.0-130			2.31	25
Cyclohexane	3.75	4.45	4.36	119	116	70.0-130			2.04	25
Dibromochloromethane	3.75	4.33	4.23	115	113	70.0-130			2.34	25
1,2-Dibromoethane	3.75	4.35	4.20	116	112	70.0-130			3.51	25
1,2-Dichlorobenzene	3.75	4.37	4.33	117	115	70.0-130			0.920	25
1,3-Dichlorobenzene	3.75	4.37	4.28	117	114	70.0-130			2.08	25
1,4-Dichlorobenzene	3.75	4.40	4.35	117	116	70.0-130			1.14	25
1,2-Dichloroethane	3.75	4.35	4.24	116	113	70.0-130			2.56	25
1,1-Dichloroethane	3.75	4.39	4.29	117	114	70.0-130			2.30	25
1,1-Dichloroethene	3.75	4.40	4.26	117	114	70.0-130			3.23	25
cis-1,2-Dichloroethene	3.75	4.36	4.21	116	112	70.0-130			3.50	25
trans-1,2-Dichloroethene	3.75	4.39	4.29	117	114	70.0-130			2.30	25
1,2-Dichloropropane	3.75	4.44	4.33	118	115	70.0-130			2.51	25
cis-1,3-Dichloropropene	3.75	4.32	4.24	115	113	70.0-130			1.87	25
trans-1,3-Dichloropropene	3.75	4.33	4.21	115	112	70.0-130			2.81	25
1,4-Dioxane	3.75	4.54	4.37	121	117	70.0-140			3.82	25
Ethanol	3.75	4.25	4.09	113	109	55.0-148			3.84	25
Ethylbenzene	3.75	4.38	4.27	117	114	70.0-130			2.54	25
4-Ethyltoluene	3.75	4.43	4.35	118	116	70.0-130			1.82	25
Trichlorofluoromethane	3.75	4.30	4.16	115	111	70.0-130			3.31	25
Dichlorodifluoromethane	3.75	4.35	4.20	116	112	64.0-139			3.51	25
1,1,2-Trichlorotrifluoroethane	3.75	4.42	4.31	118	115	70.0-130			2.52	25
1,2-Dichlorotetrafluoroethane	3.75	4.39	4.28	117	114	70.0-130			2.54	25
Heptane	3.75	4.37	4.22	117	113	70.0-130			3.49	25
Hexachloro-1,3-butadiene	3.75	4.16	4.19	111	112	70.0-151			0.719	25
Isopropylbenzene	3.75	4.41	4.33	118	115	70.0-130			1.83	25
Methylene Chloride	3.75	4.17	4.05	111	108	70.0-130			2.92	25
Methyl Butyl Ketone	3.75	4.47	4.31	119	115	70.0-149			3.64	25
Methyl Ethyl Ketone	3.75	4.49	4.28	120	114	70.0-130			4.79	25
4-Methyl-2-pentanone (MIBK)	3.75	4.40	4.25	117	113	70.0-139			3.47	25
Methyl Methacrylate	3.75	4.35	4.24	116	113	70.0-130			2.56	25

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

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

(LCS) R3784426-1 04/23/22 07:02 • (LCSD) R3784426-2 04/23/22 07:42

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	4.38	4.25	117	113	70.0-130			3.01	25
Naphthalene	3.75	4.42	4.28	118	114	70.0-159			3.22	25
2-Propanol	3.75	4.35	4.22	116	113	70.0-139			3.03	25
Propene	3.75	4.45	4.29	119	114	64.0-144			3.66	25
Styrene	3.75	4.44	4.36	118	116	70.0-130			1.82	25
1,1,2,2-Tetrachloroethane	3.75	4.37	4.27	117	114	70.0-130			2.31	25
Tetrachloroethylene	3.75	4.36	4.26	116	114	70.0-130			2.32	25
Tetrahydrofuran	3.75	4.42	4.24	118	113	70.0-137			4.16	25
Toluene	3.75	4.40	4.28	117	114	70.0-130			2.76	25
1,2,4-Trichlorobenzene	3.75	4.31	4.25	115	113	70.0-160			1.40	25
1,1,1-Trichloroethane	3.75	4.31	4.23	115	113	70.0-130			1.87	25
1,1,2-Trichloroethane	3.75	4.34	4.25	116	113	70.0-130			2.10	25
Trichloroethylene	3.75	4.32	4.27	115	114	70.0-130			1.16	25
1,2,4-Trimethylbenzene	3.75	4.43	4.33	118	115	70.0-130			2.28	25
1,3,5-Trimethylbenzene	3.75	4.40	4.27	117	114	70.0-130			3.00	25
2,2,4-Trimethylpentane	3.75	4.45	4.32	119	115	70.0-130			2.96	25
Vinyl chloride	3.75	4.35	4.18	116	111	70.0-130			3.99	25
Vinyl Bromide	3.75	4.41	4.23	118	113	70.0-130			4.17	25
Vinyl acetate	3.75	4.30	4.13	115	110	70.0-130			4.03	25
m&p-Xylene	7.50	8.80	8.60	117	115	70.0-130			2.30	25
o-Xylene	3.75	4.33	4.22	115	113	70.0-130			2.57	25
TPH (GC/MS) Low Fraction	203	250	245	123	121	70.0-130			2.02	25
(S) 1,4-Bromofluorobenzene				*98.8*	*98.6*	*60.0-140*				

Method Blank (MB)

(MB) R3784527-3 04/24/22 09:57

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	*95.5*			*60.0-140*

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

(LCS) R3784527-1 04/24/22 08:43 • (LCSD) R3784527-2 04/24/22 09:21

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Hexane	3.75	3.40	3.42	90.7	91.2	70.0-130			0.587	25
(S) 1,4-Bromofluorobenzene				*100*	*99.9*	*60.0-140*				

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

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Ensolum, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705

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

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: **Beaux Jennings**

Email To: **bjennings@ensolum.com**

Project Description: Levey well

City/State Collected: Hobbs, New Mexico

Please Circle: PT MT CT ET

SDG # L1485385
D017

Phone: **210-219-8858**

Client Project # 03B1417001

Lab Project # **ENSOLUMMTX-SUMMA**

Collected by (print): Aaron Marquez

Site/Facility ID # 03B1417001

P.O. # 03B1417001

Collected by (signature):

Quote #

Acctnum: **ENSOLUMMTX**

Template: **T180734**

Prelogin: **P827709**

PM: **134 - Mark W. Beasley**

PB:

Shipped Via:

Immediately Packed on Ice N ___ Y ___

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

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Remarks	Sample # (lab only)
Levey Well	G	Air	—	4-20-22	1157	1	X		-01

NFE AAM 4-20-22

* 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 # 5719 6177 8525

Sample Receipt Checklist

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

	Date:	Time:		
Relinquished by : (Signature)	4-20-22	1520	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	4/20/22	1700	Received by: (Signature) FedEx	Temp: °C Bottles Received: 1
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) D. Ramsey	Date: 4-22-22 Time: 900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

ANALYTICAL REPORT

April 29, 2022

Ensolum, LLC

Sample Delivery Group:	L1486256
Samples Received:	04/26/2022
Project Number:	03B1417001
Description:	Levey Well
Site:	03B1417001
Report To:	Beaux Jennings 601 N Marienfeld Street, Ste. 400 Midland, TX 79701

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

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



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

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LEVEY WELL L1486256-01 Air

Collected by: Aaron Marquez
Collected date/time: 04/25/22 08:05
Received date/time: 04/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1855827	400	04/28/22 19:51	04/28/22 19:51	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1856432	20000	04/29/22 13:19	04/29/22 13:19	CEP	Mt. Juliet, TN

LEVEY WELL L1486256-02 Air

Collected by: Aaron Marquez
Collected date/time: 04/25/22 08:33
Received date/time: 04/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1855053	20	04/28/22 00:29	04/28/22 00:29	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1855877	100	04/28/22 22:21	04/28/22 22:21	CEP	Mt. Juliet, TN

LEVEY WELL L1486256-03 Air

Collected by: Aaron Marquez
Collected date/time: 04/25/22 09:12
Received date/time: 04/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1855053	2	04/27/22 23:07	04/27/22 23:07	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1855877	20	04/28/22 20:18	04/28/22 20:18	CEP	Mt. Juliet, TN

LEVEY WELL L1486256-04 Air

Collected by: Aaron Marquez
Collected date/time: 04/25/22 10:33
Received date/time: 04/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1855053	400	04/28/22 01:09	04/28/22 01:09	DAH	Mt. Juliet, TN

CASE NARRATIVE

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

Mark W. Beasley
Project Manager

Released to Imaging: 3/20/2024 4:29:15 PM

Revised May 2010

Laboratory Data Package Cover Page

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

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

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



Mark W. Beasley

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 04/29/2022 18:09
Project Name: Levey Well	Laboratory Job Number: L1486256-01, 02, 03 and 04
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1855053, WG1855877, WG1855827 and WG1856432

#[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).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 04/29/2022 18:09
Project Name: Levey Well	Laboratory Job Number: L1486256-01, 02, 03 and 04
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1855053, WG1855877, WG1855827 and WG1856432

#[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).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 04/29/2022 18:09
Project Name: Levey Well	Laboratory Job Number: L1486256-01, 02, 03 and 04
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1855053, WG1855877, WG1855827 and WG1856432

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).

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	500	1190	ND	ND		400	WG1855827
Allyl chloride	107-05-1	76.53	80.0	250	ND	ND		400	WG1855827
Benzene	71-43-2	78.10	80.0	256	ND	ND		400	WG1855827
Benzyl Chloride	100-44-7	127	80.0	416	ND	ND		400	WG1855827
Bromodichloromethane	75-27-4	164	80.0	537	ND	ND		400	WG1855827
Bromoform	75-25-2	253	240	2480	ND	ND		400	WG1855827
Bromomethane	74-83-9	94.90	80.0	311	ND	ND		400	WG1855827
1,3-Butadiene	106-99-0	54.10	800	1770	ND	ND		400	WG1855827
Carbon disulfide	75-15-0	76.10	80.0	249	ND	ND		400	WG1855827
Carbon tetrachloride	56-23-5	154	80.0	504	ND	ND		400	WG1855827
Chlorobenzene	108-90-7	113	80.0	370	ND	ND		400	WG1855827
Chloroethane	75-00-3	64.50	80.0	211	ND	ND		400	WG1855827
Chloroform	67-66-3	119	80.0	389	ND	ND		400	WG1855827
Chloromethane	74-87-3	50.50	80.0	165	ND	ND		400	WG1855827
2-Chlorotoluene	95-49-8	126	80.0	412	ND	ND		400	WG1855827
Cyclohexane	110-82-7	84.20	4000	13800	135000	465000		20000	WG1856432
Dibromochloromethane	124-48-1	208	80.0	681	ND	ND		400	WG1855827
1,2-Dibromoethane	106-93-4	188	80.0	615	ND	ND		400	WG1855827
1,2-Dichlorobenzene	95-50-1	147	80.0	481	ND	ND		400	WG1855827
1,3-Dichlorobenzene	541-73-1	147	80.0	481	ND	ND		400	WG1855827
1,4-Dichlorobenzene	106-46-7	147	80.0	481	ND	ND		400	WG1855827
1,2-Dichloroethane	107-06-2	99	80.0	324	ND	ND		400	WG1855827
1,1-Dichloroethane	75-34-3	98	80.0	321	ND	ND		400	WG1855827
1,1-Dichloroethene	75-35-4	96.90	80.0	317	ND	ND		400	WG1855827
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	ND	ND		400	WG1855827
trans-1,2-Dichloroethene	156-60-5	96.90	80.0	317	ND	ND		400	WG1855827
1,2-Dichloropropane	78-87-5	113	80.0	370	ND	ND		400	WG1855827
cis-1,3-Dichloropropene	10061-01-5	111	80.0	363	ND	ND		400	WG1855827
trans-1,3-Dichloropropene	10061-02-6	111	80.0	363	ND	ND		400	WG1855827
1,4-Dioxane	123-91-1	88.10	80.0	288	ND	ND		400	WG1855827
Ethanol	64-17-5	46.10	500	943	1950	3680		400	WG1855827
Ethylbenzene	100-41-4	106	80.0	347	ND	ND		400	WG1855827
4-Ethyltoluene	622-96-8	120	80.0	393	ND	ND		400	WG1855827
Trichlorofluoromethane	75-69-4	137.40	80.0	450	ND	ND		400	WG1855827
Dichlorodifluoromethane	75-71-8	120.92	80.0	396	ND	ND		400	WG1855827
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	80.0	613	ND	ND		400	WG1855827
1,2-Dichlorotetrafluoroethane	76-14-2	171	80.0	560	ND	ND		400	WG1855827
Heptane	142-82-5	100	4000	16400	156000	638000		20000	WG1856432
Hexachloro-1,3-butadiene	87-68-3	261	252	2690	ND	ND		400	WG1855827
n-Hexane	110-54-3	86.20	12600	44400	1530000	5390000		20000	WG1856432
Isopropylbenzene	98-82-8	120.20	80.0	393	ND	ND		400	WG1855827
Methylene Chloride	75-09-2	84.90	80.0	278	ND	ND		400	WG1855827
Methyl Butyl Ketone	591-78-6	100	500	2040	ND	ND		400	WG1855827
2-Butanone (MEK)	78-93-3	72.10	500	1470	4180	12300		400	WG1855827
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	500	2050	ND	ND		400	WG1855827
Methyl methacrylate	80-62-6	100.12	80.0	328	ND	ND		400	WG1855827
MTBE	1634-04-4	88.10	80.0	288	ND	ND		400	WG1855827
Naphthalene	91-20-3	128	252	1320	ND	ND		400	WG1855827
2-Propanol	67-63-0	60.10	500	1230	9470	23300		400	WG1855827
Propene	115-07-1	42.10	500	861	ND	ND		400	WG1855827
Styrene	100-42-5	104	80.0	340	ND	ND		400	WG1855827
1,1,2,2-Tetrachloroethane	79-34-5	168	80.0	550	ND	ND		400	WG1855827
Tetrachloroethylene	127-18-4	166	80.0	543	ND	ND		400	WG1855827
Tetrahydrofuran	109-99-9	72.10	80.0	236	ND	ND		400	WG1855827
Toluene	108-88-3	92.10	200	753	ND	ND		400	WG1855827
1,2,4-Trichlorobenzene	120-82-1	181	252	1870	ND	ND		400	WG1855827

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

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Received by OCD: 11/8/2023 2:18:22 PM

Collected date/time: 04/25/22 08:05 L1486256

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	80.0	435	ND	ND		400	WG1855827
1,1,2-Trichloroethane	79-00-5	133	80.0	435	ND	ND		400	WG1855827
Trichloroethylene	79-01-6	131	80.0	429	ND	ND		400	WG1855827
1,2,4-Trimethylbenzene	95-63-6	120	80.0	393	ND	ND		400	WG1855827
1,3,5-Trimethylbenzene	108-67-8	120	80.0	393	ND	ND		400	WG1855827
2,2,4-Trimethylpentane	540-84-1	114.22	80.0	374	ND	ND		400	WG1855827
Vinyl chloride	75-01-4	62.50	80.0	204	ND	ND		400	WG1855827
Vinyl Bromide	593-60-2	106.95	80.0	350	ND	ND		400	WG1855827
Vinyl acetate	108-05-4	86.10	80.0	282	ND	ND		400	WG1855827
m&p-Xylene	1330-20-7	106	160	694	ND	ND		400	WG1855827
o-Xylene	95-47-6	106	80.0	347	ND	ND		400	WG1855827
TPH (GC/MS) Low Fraction	8006-61-9	101	80000	330000	1870000	7720000		400	WG1855827
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.0*				WG1855827
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*93.6*				WG1856432

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

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	75.2	179		20	WG1855053
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1855053
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1855053
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1855053
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1855053
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1855053
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1855053
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1855053
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1855053
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1855053
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1855053
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1855053
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1855053
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1855053
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1855053
Cyclohexane	110-82-7	84.20	4.00	13.8	779	2680		20	WG1855053
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1855053
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1855053
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1855053
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1855053
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1855053
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1855053
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1855053
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1855053
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1855053
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1855053
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1855053
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1855053
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1855053
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1855053
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1855053
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1855053
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1855053
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1855053
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1855053
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1855053
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1855053
Heptane	142-82-5	100	4.00	16.4	1510	6180		20	WG1855053
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1855053
n-Hexane	110-54-3	86.20	63.0	222	4490	15800		100	WG1855877
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1855053
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1855053
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1855053
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	54.7	161		20	WG1855053
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1855053
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1855053
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1855053
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1855053
2-Propanol	67-63-0	60.10	25.0	61.5	ND	ND		20	WG1855053
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1855053
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1855053
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1855053
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1855053
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1855053
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1855053
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1855053

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

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LEVEL WELL
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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG1855053
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1855053
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1855053
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1855053
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	4.86	23.9		20	WG1855053
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1855053
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1855053
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1855053
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1855053
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1855053
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1855053
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	33300	138000		20	WG1855053
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.8*				WG1855053
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.1*				WG1855877

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	13.7	32.6		2	WG1855053
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1855053
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1855053
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1855053
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1855053
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1855053
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1855053
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1855053
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1855053
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1855053
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1855053
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1855053
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1855053
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1855053
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1855053
Cyclohexane	110-82-7	84.20	0.400	1.38	120	413		2	WG1855053
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1855053
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1855053
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1855053
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1855053
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1855053
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1855053
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1855053
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1855053
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1855053
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1855053
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1855053
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1855053
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1855053
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1855053
Ethanol	64-17-5	46.10	2.50	4.71	4.50	8.48		2	WG1855053
Ethylbenzene	100-41-4	106	0.400	1.73	0.644	2.79		2	WG1855053
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1855053
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1855053
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.514	2.54		2	WG1855053
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1855053
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1855053
Heptane	142-82-5	100	4.00	16.4	359	1470		20	WG1855877
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1855053
n-Hexane	110-54-3	86.20	12.6	44.4	963	3400		20	WG1855877
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1855053
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1855053
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1855053
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	10.7	31.6		2	WG1855053
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1855053
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1855053
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1855053
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1855053
2-Propanol	67-63-0	60.10	2.50	6.15	4.69	11.5		2	WG1855053
Propene	115-07-1	42.10	2.50	4.30	ND	ND		2	WG1855053
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1855053
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1855053
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1855053
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1855053
Toluene	108-88-3	92.10	1.00	3.77	ND	ND		2	WG1855053
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1855053

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

Released to Imaging: 3/20/2024 4:29:15 PM

Received by OCD: 11/8/2023 2:18:22 PM

LEVEL WELL

SAMPLE RESULTS - 03

Collected date/time: 04/25/22 09:12

L1486256

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	0.400	2.18	ND	ND		2	WG1855053
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1855053
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1855053
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	2.48	12.2		2	WG1855053
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	4.70	23.1		2	WG1855053
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1855053
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1855053
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1855053
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1855053
m&p-Xylene	1330-20-7	106	0.800	3.47	1.24	5.38		2	WG1855053
o-Xylene	95-47-6	106	0.400	1.73	1.01	4.38		2	WG1855053
TPH (GC/MS) Low Fraction	8006-61-9	101	400	1650	5480	22600		2	WG1855053
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.1*				WG1855053
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.6*				WG1855877

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	500	1190	ND	ND		400	WG1855053
Allyl chloride	107-05-1	76.53	80.0	250	ND	ND		400	WG1855053
Benzene	71-43-2	78.10	80.0	256	519	1660		400	WG1855053
Benzyl Chloride	100-44-7	127	80.0	416	ND	ND		400	WG1855053
Bromodichloromethane	75-27-4	164	80.0	537	ND	ND		400	WG1855053
Bromoform	75-25-2	253	240	2480	ND	ND		400	WG1855053
Bromomethane	74-83-9	94.90	80.0	311	ND	ND		400	WG1855053
1,3-Butadiene	106-99-0	54.10	800	1770	ND	ND		400	WG1855053
Carbon disulfide	75-15-0	76.10	80.0	249	ND	ND		400	WG1855053
Carbon tetrachloride	56-23-5	154	80.0	504	ND	ND		400	WG1855053
Chlorobenzene	108-90-7	113	80.0	370	ND	ND		400	WG1855053
Chloroethane	75-00-3	64.50	80.0	211	ND	ND		400	WG1855053
Chloroform	67-66-3	119	80.0	389	ND	ND		400	WG1855053
Chloromethane	74-87-3	50.50	80.0	165	ND	ND		400	WG1855053
2-Chlorotoluene	95-49-8	126	80.0	412	ND	ND		400	WG1855053
Cyclohexane	110-82-7	84.20	80.0	276	6920	23800		400	WG1855053
Dibromochloromethane	124-48-1	208	80.0	681	ND	ND		400	WG1855053
1,2-Dibromoethane	106-93-4	188	80.0	615	ND	ND		400	WG1855053
1,2-Dichlorobenzene	95-50-1	147	80.0	481	ND	ND		400	WG1855053
1,3-Dichlorobenzene	541-73-1	147	80.0	481	ND	ND		400	WG1855053
1,4-Dichlorobenzene	106-46-7	147	80.0	481	ND	ND		400	WG1855053
1,2-Dichloroethane	107-06-2	99	80.0	324	ND	ND		400	WG1855053
1,1-Dichloroethane	75-34-3	98	80.0	321	ND	ND		400	WG1855053
1,1-Dichloroethene	75-35-4	96.90	80.0	317	ND	ND		400	WG1855053
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	ND	ND		400	WG1855053
trans-1,2-Dichloroethene	156-60-5	96.90	80.0	317	ND	ND		400	WG1855053
1,2-Dichloropropane	78-87-5	113	80.0	370	ND	ND		400	WG1855053
cis-1,3-Dichloropropene	10061-01-5	111	80.0	363	ND	ND		400	WG1855053
trans-1,3-Dichloropropene	10061-02-6	111	80.0	363	ND	ND		400	WG1855053
1,4-Dioxane	123-91-1	88.10	80.0	288	ND	ND		400	WG1855053
Ethanol	64-17-5	46.10	500	943	1570	2960		400	WG1855053
Ethylbenzene	100-41-4	106	80.0	347	1120	4860		400	WG1855053
4-Ethyltoluene	622-96-8	120	80.0	393	716	3510		400	WG1855053
Trichlorofluoromethane	75-69-4	137.40	80.0	450	ND	ND		400	WG1855053
Dichlorodifluoromethane	75-71-8	120.92	80.0	396	ND	ND		400	WG1855053
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	80.0	613	ND	ND		400	WG1855053
1,2-Dichlorotetrafluoroethane	76-14-2	171	80.0	560	ND	ND		400	WG1855053
Heptane	142-82-5	100	80.0	327	10500	42900		400	WG1855053
Hexachloro-1,3-butadiene	87-68-3	261	252	2690	ND	ND		400	WG1855053
n-Hexane	110-54-3	86.20	252	888	29300	103000		400	WG1855053
Isopropylbenzene	98-82-8	120.20	80.0	393	175	860	B	400	WG1855053
Methylene Chloride	75-09-2	84.90	80.0	278	ND	ND		400	WG1855053
Methyl Butyl Ketone	591-78-6	100	500	2040	ND	ND		400	WG1855053
2-Butanone (MEK)	78-93-3	72.10	500	1470	ND	ND		400	WG1855053
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	500	2050	ND	ND		400	WG1855053
Methyl methacrylate	80-62-6	100.12	80.0	328	ND	ND		400	WG1855053
MTBE	1634-04-4	88.10	80.0	288	ND	ND		400	WG1855053
Naphthalene	91-20-3	128	252	1320	ND	ND		400	WG1855053
2-Propanol	67-63-0	60.10	500	1230	6620	16300		400	WG1855053
Propene	115-07-1	42.10	500	861	ND	ND		400	WG1855053
Styrene	100-42-5	104	80.0	340	ND	ND		400	WG1855053
1,1,2,2-Tetrachloroethane	79-34-5	168	80.0	550	ND	ND		400	WG1855053
Tetrachloroethylene	127-18-4	166	80.0	543	ND	ND		400	WG1855053
Tetrahydrofuran	109-99-9	72.10	80.0	236	ND	ND		400	WG1855053
Toluene	108-88-3	92.10	200	753	3860	14500		400	WG1855053
1,2,4-Trichlorobenzene	120-82-1	181	252	1870	ND	ND		400	WG1855053

1 Cp
2 Tc
3 Ss
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5 Tr
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9 Al
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Received by OCD: 11/8/2023 2:18:22 PM

LEVEL WELL
Collected date/time: 04/25/22 10:33
L1486256

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	80.0	435	ND	ND		400	WG1855053
1,1,2-Trichloroethane	79-00-5	133	80.0	435	ND	ND		400	WG1855053
Trichloroethylene	79-01-6	131	80.0	429	ND	ND		400	WG1855053
1,2,4-Trimethylbenzene	95-63-6	120	80.0	393	556	2730		400	WG1855053
1,3,5-Trimethylbenzene	108-67-8	120	80.0	393	226	1110		400	WG1855053
2,2,4-Trimethylpentane	540-84-1	114.22	80.0	374	ND	ND		400	WG1855053
Vinyl chloride	75-01-4	62.50	80.0	204	ND	ND		400	WG1855053
Vinyl Bromide	593-60-2	106.95	80.0	350	ND	ND		400	WG1855053
Vinyl acetate	108-05-4	86.10	80.0	282	ND	ND		400	WG1855053
m&p-Xylene	1330-20-7	106	160	694	1700	7370		400	WG1855053
o-Xylene	95-47-6	106	80.0	347	634	2750		400	WG1855053
TPH (GC/MS) Low Fraction	8006-61-9	101	80000	330000	256000	1060000		400	WG1855053
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*97.7*				WG1855053

1 Cp
2 Tc
3 Ss
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Released to Imaging: 3/20/2024 4:29:15 PM

Method Blank (MB)

(MB) R3785653-3 04/27/22 10:33

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

Method Blank (MB)

(MB) R3785653-3 04/27/22 10:33

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	0.108	J	0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.379	J	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	*96.1*			*60.0-140*

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

(LCS) R3785653-1 04/27/22 09:06 • (LCSD) R3785653-2 04/27/22 09:50

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	3.93	3.99	105	106	70.0-130			1.52	25
Allyl Chloride	3.75	4.00	4.22	107	113	70.0-130			5.35	25
Benzene	3.75	3.96	3.94	106	105	70.0-130			0.506	25
Benzyl Chloride	3.75	3.96	3.99	106	106	70.0-152			0.755	25

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

(LCS) R3785653-1 04/27/22 09:06 • (LCSD) R3785653-2 04/27/22 09:50

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.99	3.97	106	106	70.0-130			0.503	25
Bromoform	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
Bromomethane	3.75	3.45	3.63	92.0	96.8	70.0-130			5.08	25
1,3-Butadiene	3.75	3.52	3.47	93.9	92.5	70.0-130			1.43	25
Carbon disulfide	3.75	3.51	3.54	93.6	94.4	70.0-130			0.851	25
Carbon tetrachloride	3.75	3.90	3.87	104	103	70.0-130			0.772	25
Chlorobenzene	3.75	4.15	4.10	111	109	70.0-130			1.21	25
Chloroethane	3.75	3.76	3.59	100	95.7	70.0-130			4.63	25
Chloroform	3.75	3.87	3.86	103	103	70.0-130			0.259	25
Chloromethane	3.75	3.76	3.86	100	103	70.0-130			2.62	25
2-Chlorotoluene	3.75	4.06	3.99	108	106	70.0-130			1.74	25
Cyclohexane	3.75	3.88	3.97	103	106	70.0-130			2.29	25
Dibromochloromethane	3.75	3.96	4.09	106	109	70.0-130			3.23	25
1,2-Dibromoethane	3.75	3.98	4.08	106	109	70.0-130			2.48	25
1,2-Dichlorobenzene	3.75	3.96	3.99	106	106	70.0-130			0.755	25
1,3-Dichlorobenzene	3.75	4.10	3.97	109	106	70.0-130			3.22	25
1,4-Dichlorobenzene	3.75	4.03	3.94	107	105	70.0-130			2.26	25
1,2-Dichloroethane	3.75	3.97	4.04	106	108	70.0-130			1.75	25
1,1-Dichloroethane	3.75	3.79	3.76	101	100	70.0-130			0.795	25
1,1-Dichloroethene	3.75	3.85	3.80	103	101	70.0-130			1.31	25
cis-1,2-Dichloroethene	3.75	3.85	3.88	103	103	70.0-130			0.776	25
trans-1,2-Dichloroethene	3.75	3.84	3.94	102	105	70.0-130			2.57	25
1,2-Dichloropropane	3.75	4.00	4.03	107	107	70.0-130			0.747	25
cis-1,3-Dichloropropene	3.75	3.99	3.94	106	105	70.0-130			1.26	25
trans-1,3-Dichloropropene	3.75	3.84	3.90	102	104	70.0-130			1.55	25
1,4-Dioxane	3.75	3.90	3.83	104	102	70.0-140			1.81	25
Ethanol	3.75	4.57	4.92	122	131	55.0-148			7.38	25
Ethylbenzene	3.75	3.99	3.96	106	106	70.0-130			0.755	25
4-Ethyltoluene	3.75	4.04	3.93	108	105	70.0-130			2.76	25
Trichlorofluoromethane	3.75	3.89	3.77	104	101	70.0-130			3.13	25
Dichlorodifluoromethane	3.75	3.72	3.74	99.2	99.7	64.0-139			0.536	25
1,1,2-Trichlorotrifluoroethane	3.75	3.93	3.89	105	104	70.0-130			1.02	25
1,2-Dichlorotetrafluoroethane	3.75	3.94	3.97	105	106	70.0-130			0.759	25
Heptane	3.75	4.07	4.09	109	109	70.0-130			0.490	25
Hexachloro-1,3-butadiene	3.75	4.00	3.96	107	106	70.0-151			1.01	25
n-Hexane	3.75	3.82	3.76	102	100	70.0-130			1.58	25
Isopropylbenzene	3.75	4.00	3.98	107	106	70.0-130			0.501	25
Methylene Chloride	3.75	3.75	3.70	100	98.7	70.0-130			1.34	25
Methyl Butyl Ketone	3.75	4.00	4.27	107	114	70.0-149			6.53	25
Methyl Ethyl Ketone	3.75	3.85	3.86	103	103	70.0-130			0.259	25

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

(LCS) R3785653-1 04/27/22 09:06 • (LCSD) R3785653-2 04/27/22 09:50

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.06	3.98	108	106	70.0-139			1.99	25
Methyl Methacrylate	3.75	3.97	4.05	106	108	70.0-130			2.00	25
MTBE	3.75	3.81	3.82	102	102	70.0-130			0.262	25
Naphthalene	3.75	3.48	3.54	92.8	94.4	70.0-159			1.71	25
2-Propanol	3.75	3.82	3.84	102	102	70.0-139			0.522	25
Propene	3.75	3.71	3.78	98.9	101	64.0-144			1.87	25
Styrene	3.75	4.05	4.04	108	108	70.0-130			0.247	25
1,1,2,2-Tetrachloroethane	3.75	3.97	3.92	106	105	70.0-130			1.27	25
Tetrachloroethylene	3.75	4.01	4.03	107	107	70.0-130			0.498	25
Tetrahydrofuran	3.75	3.94	3.91	105	104	70.0-137			0.764	25
Toluene	3.75	3.95	3.97	105	106	70.0-130			0.505	25
1,2,4-Trichlorobenzene	3.75	3.31	3.38	88.3	90.1	70.0-160			2.09	25
1,1,1-Trichloroethane	3.75	3.83	3.86	102	103	70.0-130			0.780	25
1,1,2-Trichloroethane	3.75	3.92	4.14	105	110	70.0-130			5.46	25
Trichloroethylene	3.75	3.92	4.03	105	107	70.0-130			2.77	25
1,2,4-Trimethylbenzene	3.75	4.04	3.96	108	106	70.0-130			2.00	25
1,3,5-Trimethylbenzene	3.75	4.07	4.16	109	111	70.0-130			2.19	25
2,2,4-Trimethylpentane	3.75	4.29	4.45	114	119	70.0-130			3.66	25
Vinyl chloride	3.75	3.80	3.68	101	98.1	70.0-130			3.21	25
Vinyl Bromide	3.75	3.82	3.68	102	98.1	70.0-130			3.73	25
Vinyl acetate	3.75	3.59	3.49	95.7	93.1	70.0-130			2.82	25
m&p-Xylene	7.50	7.99	8.05	107	107	70.0-130			0.748	25
o-Xylene	3.75	3.92	3.91	105	104	70.0-130			0.255	25
TPH (GC/MS) Low Fraction	203	218	217	107	107	70.0-130			0.460	25
(S) 1,4-Bromofluorobenzene				*96.5*	*94.9*	*60.0-140*				

Received by OCD: 7/8/2023 2:18:22 PM

Method Blank (MB)

(MB) R3786359-3 04/28/22 10:31

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

Released to Imaging: 3/20/2024 4:29:15 PM

Method Blank (MB)

(MB) R3786359-3 04/28/22 10:31

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	58.2	J	39.7	200
(S) 1,4-Bromofluorobenzene	*96.6*			*60.0-140*

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

(LCS) R3786359-1 04/28/22 09:33 • (LCSD) R3786359-2 04/28/22 10:03

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	3.90	3.73	104	99.5	70.0-130			4.46	25
Allyl Chloride	3.75	3.05	3.04	81.3	81.1	70.0-130			0.328	25
Benzene	3.75	3.97	3.98	106	106	70.0-130			0.252	25
Benzyl Chloride	3.75	4.10	4.05	109	108	70.0-152			1.23	25
Bromodichloromethane	3.75	4.01	3.99	107	106	70.0-130			0.500	25
Bromoform	3.75	4.14	4.07	110	109	70.0-130			1.71	25
Bromomethane	3.75	3.60	3.61	96.0	96.3	70.0-130			0.277	25

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

(LCS) R3786359-1 04/28/22 09:33 • (LCSD) R3786359-2 04/28/22 10:03

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Butadiene	3.75	4.61	4.63	123	123	70.0-130			0.433	25
Carbon disulfide	3.75	3.25	3.16	86.7	84.3	70.0-130			2.81	25
Carbon tetrachloride	3.75	4.03	4.05	107	108	70.0-130			0.495	25
Chlorobenzene	3.75	3.84	3.84	102	102	70.0-130			0.000	25
Chloroethane	3.75	3.76	3.69	100	98.4	70.0-130			1.88	25
Chloroform	3.75	4.11	4.08	110	109	70.0-130			0.733	25
Chloromethane	3.75	4.20	4.21	112	112	70.0-130			0.238	25
2-Chlorotoluene	3.75	4.00	4.01	107	107	70.0-130			0.250	25
Dibromochloromethane	3.75	3.98	3.97	106	106	70.0-130			0.252	25
1,2-Dibromoethane	3.75	3.98	3.96	106	106	70.0-130			0.504	25
1,2-Dichlorobenzene	3.75	3.97	3.96	106	106	70.0-130			0.252	25
1,3-Dichlorobenzene	3.75	4.03	4.01	107	107	70.0-130			0.498	25
1,4-Dichlorobenzene	3.75	3.99	4.03	106	107	70.0-130			0.998	25
1,2-Dichloroethane	3.75	3.88	3.82	103	102	70.0-130			1.56	25
1,1-Dichloroethane	3.75	4.19	4.22	112	113	70.0-130			0.713	25
1,1-Dichloroethene	3.75	3.42	3.41	91.2	90.9	70.0-130			0.293	25
cis-1,2-Dichloroethene	3.75	4.11	4.16	110	111	70.0-130			1.21	25
trans-1,2-Dichloroethene	3.75	2.86	2.81	76.3	74.9	70.0-130			1.76	25
1,2-Dichloropropane	3.75	4.18	4.09	111	109	70.0-130			2.18	25
cis-1,3-Dichloropropene	3.75	4.25	4.18	113	111	70.0-130			1.66	25
trans-1,3-Dichloropropene	3.75	4.30	4.27	115	114	70.0-130			0.700	25
1,4-Dioxane	3.75	3.81	3.80	102	101	70.0-140			0.263	25
Ethanol	3.75	4.06	3.93	108	105	55.0-148			3.25	25
Ethylbenzene	3.75	3.96	4.00	106	107	70.0-130			1.01	25
4-Ethyltoluene	3.75	4.12	4.11	110	110	70.0-130			0.243	25
Trichlorofluoromethane	3.75	3.77	3.76	101	100	70.0-130			0.266	25
Dichlorodifluoromethane	3.75	3.94	3.92	105	105	64.0-139			0.509	25
1,1,2-Trichlorotrifluoroethane	3.75	3.07	3.05	81.9	81.3	70.0-130			0.654	25
1,2-Dichlorotetrafluoroethane	3.75	3.65	3.64	97.3	97.1	70.0-130			0.274	25
Hexachloro-1,3-butadiene	3.75	3.79	3.82	101	102	70.0-151			0.788	25
Isopropylbenzene	3.75	4.01	3.99	107	106	70.0-130			0.500	25
Methylene Chloride	3.75	3.29	3.26	87.7	86.9	70.0-130			0.916	25
Methyl Butyl Ketone	3.75	4.00	3.93	107	105	70.0-149			1.77	25
Methyl Ethyl Ketone	3.75	4.13	4.17	110	111	70.0-130			0.964	25
4-Methyl-2-pentanone (MIBK)	3.75	4.03	4.06	107	108	70.0-139			0.742	25
Methyl Methacrylate	3.75	4.02	4.06	107	108	70.0-130			0.990	25
MTBE	3.75	4.17	4.18	111	111	70.0-130			0.240	25
Naphthalene	3.75	4.09	4.11	109	110	70.0-159			0.488	25
2-Propanol	3.75	4.24	4.15	113	111	70.0-139			2.15	25
Propene	3.75	3.75	3.74	100	99.7	64.0-144			0.267	25

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

(LCS) R3786359-1 04/28/22 09:33 • (LCSD) R3786359-2 04/28/22 10:03

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	3.75	3.94	4.01	105	107	70.0-130			1.76	25
1,1,2,2-Tetrachloroethane	3.75	4.23	4.20	113	112	70.0-130			0.712	25
Tetrachloroethylene	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
Tetrahydrofuran	3.75	4.33	4.39	115	117	70.0-137			1.38	25
Toluene	3.75	3.81	3.89	102	104	70.0-130			2.08	25
1,2,4-Trichlorobenzene	3.75	3.72	3.73	99.2	99.5	70.0-160			0.268	25
1,1,1-Trichloroethane	3.75	4.06	4.04	108	108	70.0-130			0.494	25
1,1,2-Trichloroethane	3.75	3.92	3.88	105	103	70.0-130			1.03	25
Trichloroethylene	3.75	3.85	3.82	103	102	70.0-130			0.782	25
1,2,4-Trimethylbenzene	3.75	4.19	4.16	112	111	70.0-130			0.719	25
1,3,5-Trimethylbenzene	3.75	4.13	4.07	110	109	70.0-130			1.46	25
2,2,4-Trimethylpentane	3.75	4.25	4.26	113	114	70.0-130			0.235	25
Vinyl chloride	3.75	4.03	3.95	107	105	70.0-130			2.01	25
Vinyl Bromide	3.75	3.56	3.54	94.9	94.4	70.0-130			0.563	25
Vinyl acetate	3.75	4.44	4.45	118	119	70.0-130			0.225	25
m&p-Xylene	7.50	8.26	8.27	110	110	70.0-130			0.121	25
o-Xylene	3.75	4.10	4.08	109	109	70.0-130			0.489	25
TPH (GC/MS) Low Fraction	203	237	236	117	116	70.0-130			0.423	25
(S) 1,4-Bromofluorobenzene				*101*	*101*	*60.0-140*				

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

Received by OCD: 11/8/2023 2:18:22 PM

Method Blank (MB)

(MB) R3786319-3 04/28/22 11:18

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	*92.3*			*60.0-140*

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

(LCS) R3786319-1 04/28/22 09:51 • (LCSD) R3786319-2 04/28/22 10:35

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Heptane	3.75	4.47	4.44	119	118	70.0-130			0.673	25
n-Hexane	3.75	4.29	4.38	114	117	70.0-130			2.08	25
(S) 1,4-Bromofluorobenzene				*97.4*	*98.5*	*60.0-140*				

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

Released to Imaging: 3/20/2024 4:29:15 PM

Method Blank (MB)

(MB) R3786556-3 04/29/22 11:35

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
(S) 1,4-Bromofluorobenzene	*93.7*			*60.0-140*

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

(LCS) R3786556-1 04/29/22 10:12 • (LCSD) R3786556-2 04/29/22 10:53

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	3.62	3.59	96.5	95.7	70.0-130			0.832	25
Heptane	3.75	3.54	3.55	94.4	94.7	70.0-130			0.282	25
n-Hexane	3.75	3.57	3.59	95.2	95.7	70.0-130			0.559	25
(S) 1,4-Bromofluorobenzene				*97.6*	*98.4*	*60.0-140*				

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

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Ensolum, LLC
705 W. Wadley Ave, Ste 210
Midland, TX 79705

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

Pres Chk

Report to: **Beaux Jennings**

Email To: **bjennings@ensolum.com**

Project Description: Levey Well

City/State Collected: Hobbs, NM

Please Circle: PT (MT) CT ET

Phone: **210-219-8858**

Client Project # 03B1417001

Lab Project # **ENSOLUMMTX-SUMMA**

Collected by (print): Aaron Marquez

Site/Facility ID # 03B1417001

P.O. # 03B1417001

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1486256

D122

Acctnum: **ENSOLUMMTX**
Template: **T180734**
Prelogin: **P827709**
PM: **134 - Mark W. Beasley**
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Remarks	Sample # (lab only)
Levey Well 1	G	Air	-	4-25-22	0805	1	X		-01
1	1	1	-	1	0833	1	1		-02
1	1	1	-	1	0912	1	1		-03
Levey Well 1	G	Air	-	4-25-22	1033	1	X		-04

NFE AAM 4-25-22

* 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 # 5716 6177 8720

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	4-25-22	14:05	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	4/25/22	1700	FedEx
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			D. Ramsey

Trip Blank Received: Yes / (No)
HCL / MeoH
TBR

Temp: AMB °C Bottles Received: 1

Date: 4-26-22 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

May 04, 2022

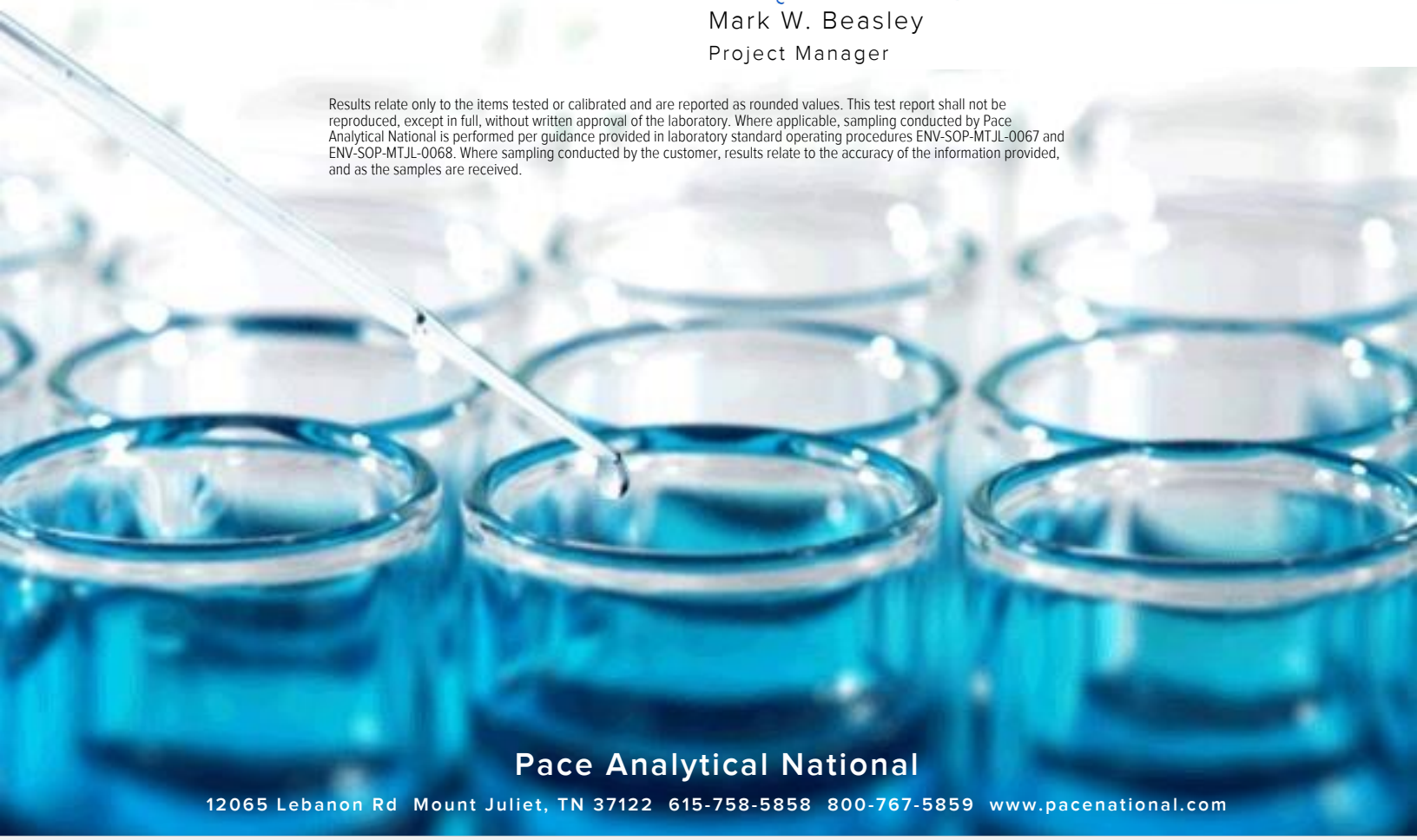
Ensolum, LLC

Sample Delivery Group:	L1488254
Samples Received:	04/30/2022
Project Number:	03B1417001
Description:	Levey Well
Site:	03B1417001
Report To:	Beaux Jennings 601 N Marienfeld Street, Ste. 400 Midland, TX 79701

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

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



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

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SAMPLE SUMMARY

LEVEY WELL L1488254-01 Air

Collected by: Aaron Marquez
Collected date/time: 04/28/22 11:52
Received date/time: 04/30/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1857048	1	05/01/22 12:56	05/01/22 12:56	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1857870	20	05/03/22 20:08	05/03/22 20:08	DAH	Mt. Juliet, TN

CASE NARRATIVE

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

Mark W. Beasley
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

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

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

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

Mark W. Beasley
Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 05/04/2022 08:25
Project Name: Levey Well	Laboratory Job Number: L1488254-01
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1857048 and WG1857870

#[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).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 05/04/2022 08:25
Project Name: Levey Well	Laboratory Job Number: L1488254-01
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1857048 and WG1857870

#[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).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 05/04/2022 08:25
Project Name: Levey Well	Laboratory Job Number: L1488254-01
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1857048 and WG1857870

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).

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	229	544		1	WG1857048
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1857048
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1857048
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1857048
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1857048
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1857048
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1857048
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1857048
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1857048
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1857048
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1857048
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1857048
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1857048
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1857048
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1857048
Cyclohexane	110-82-7	84.20	4.00	13.8	32.4	112		20	WG1857870
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1857048
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1857048
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1857048
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1857048
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1857048
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1857048
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1857048
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1857048
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1857048
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1857048
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1857048
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1857048
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1857048
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1857048
Ethanol	64-17-5	46.10	1.25	2.36	53.2	100		1	WG1857048
Ethylbenzene	100-41-4	106	0.200	0.867	5.42	23.5		1	WG1857048
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1857048
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1857048
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG1857048
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1857048
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1857048
Heptane	142-82-5	100	4.00	16.4	36.1	148		20	WG1857870
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1857048
n-Hexane	110-54-3	86.20	12.6	44.4	312	1100		20	WG1857870
Isopropylbenzene	98-82-8	120.20	0.200	0.983	1.54	7.57		1	WG1857048
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1857048
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1857048
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	8.70	25.7		1	WG1857048
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	2.03	8.31		1	WG1857048
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1857048
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1857048
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1857048
2-Propanol	67-63-0	60.10	1.25	3.07	43.1	106		1	WG1857048
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1857048
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1857048
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1857048
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1857048
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1857048
Toluene	108-88-3	92.10	0.500	1.88	29.9	113		1	WG1857048
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1857048

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

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1857048
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1857048
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1857048
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	5.42	26.6		1	WG1857048
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	3.50	17.2		1	WG1857048
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1857048
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1857048
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1857048
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1857048
m&p-Xylene	1330-20-7	106	0.400	1.73	10.9	47.3		1	WG1857048
o-Xylene	95-47-6	106	0.200	0.867	4.80	20.8		1	WG1857048
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	5480	22600		1	WG1857048
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1857048
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.5*				WG1857870

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

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Method Blank (MB)

(MB) R3787601-3 05/01/22 11:21

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

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Method Blank (MB)

(MB) R3787601-3 05/01/22 11:21

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.151	J	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	*96.2*			*60.0-140*

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

(LCS) R3787601-1 05/01/22 10:03 • (LCSD) R3787601-2 05/01/22 10:43

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	3.85	3.74	103	99.7	70.0-130			2.90	25
Allyl Chloride	3.75	4.13	3.50	110	93.3	70.0-130			16.5	25
Benzene	3.75	4.02	3.92	107	105	70.0-130			2.52	25
Benzyl Chloride	3.75	4.14	3.98	110	106	70.0-152			3.94	25
Bromodichloromethane	3.75	3.99	3.85	106	103	70.0-130			3.57	25
Bromoform	3.75	4.06	4.06	108	108	70.0-130			0.000	25
Bromomethane	3.75	3.96	3.91	106	104	70.0-130			1.27	25

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

(LCS) R3787601-1 05/01/22 10:03 • (LCSD) R3787601-2 05/01/22 10:43

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Butadiene	3.75	3.70	3.67	98.7	97.9	70.0-130			0.814	25
Carbon disulfide	3.75	4.08	3.99	109	106	70.0-130			2.23	25
Carbon tetrachloride	3.75	3.93	3.86	105	103	70.0-130			1.80	25
Chlorobenzene	3.75	4.05	3.95	108	105	70.0-130			2.50	25
Chloroethane	3.75	3.88	3.77	103	101	70.0-130			2.88	25
Chloroform	3.75	3.97	3.90	106	104	70.0-130			1.78	25
Chloromethane	3.75	3.91	3.82	104	102	70.0-130			2.33	25
2-Chlorotoluene	3.75	4.04	3.97	108	106	70.0-130			1.75	25
Dibromochloromethane	3.75	4.01	3.93	107	105	70.0-130			2.02	25
1,2-Dibromoethane	3.75	4.06	3.93	108	105	70.0-130			3.25	25
1,2-Dichlorobenzene	3.75	4.15	4.01	111	107	70.0-130			3.43	25
1,3-Dichlorobenzene	3.75	4.19	4.03	112	107	70.0-130			3.89	25
1,4-Dichlorobenzene	3.75	4.18	4.06	111	108	70.0-130			2.91	25
1,2-Dichloroethane	3.75	3.95	3.86	105	103	70.0-130			2.30	25
1,1-Dichloroethane	3.75	3.98	3.90	106	104	70.0-130			2.03	25
1,1-Dichloroethene	3.75	3.92	3.85	105	103	70.0-130			1.80	25
cis-1,2-Dichloroethene	3.75	4.01	3.89	107	104	70.0-130			3.04	25
trans-1,2-Dichloroethene	3.75	3.98	3.90	106	104	70.0-130			2.03	25
1,2-Dichloropropane	3.75	4.01	3.92	107	105	70.0-130			2.27	25
cis-1,3-Dichloropropene	3.75	4.00	3.92	107	105	70.0-130			2.02	25
trans-1,3-Dichloropropene	3.75	3.98	3.89	106	104	70.0-130			2.29	25
1,4-Dioxane	3.75	3.76	3.79	100	101	70.0-140			0.795	25
Ethanol	3.75	3.75	3.65	100	97.3	55.0-148			2.70	25
Ethylbenzene	3.75	4.05	3.97	108	106	70.0-130			2.00	25
4-Ethyltoluene	3.75	4.14	4.04	110	108	70.0-130			2.44	25
Trichlorofluoromethane	3.75	3.88	3.79	103	101	70.0-130			2.35	25
Dichlorodifluoromethane	3.75	3.97	3.86	106	103	64.0-139			2.81	25
1,1,2-Trichlorotrifluoroethane	3.75	4.05	3.99	108	106	70.0-130			1.49	25
1,2-Dichlorotetrafluoroethane	3.75	4.01	3.95	107	105	70.0-130			1.51	25
Hexachloro-1,3-butadiene	3.75	3.99	3.83	106	102	70.0-151			4.09	25
Isopropylbenzene	3.75	4.11	4.01	110	107	70.0-130			2.46	25
Methylene Chloride	3.75	3.79	3.69	101	98.4	70.0-130			2.67	25
Methyl Butyl Ketone	3.75	3.79	3.74	101	99.7	70.0-149			1.33	25
Methyl Ethyl Ketone	3.75	4.03	3.94	107	105	70.0-130			2.26	25
4-Methyl-2-pentanone (MIBK)	3.75	3.85	3.73	103	99.5	70.0-139			3.17	25
Methyl Methacrylate	3.75	4.00	3.89	107	104	70.0-130			2.79	25
MTBE	3.75	3.99	3.87	106	103	70.0-130			3.05	25
Naphthalene	3.75	4.21	4.04	112	108	70.0-159			4.12	25
2-Propanol	3.75	3.85	3.80	103	101	70.0-139			1.31	25
Propene	3.75	4.03	3.92	107	105	64.0-144			2.77	25

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

(LCS) R3787601-1 05/01/22 10:03 • (LCSD) R3787601-2 05/01/22 10:43

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	3.75	4.13	4.07	110	109	70.0-130			1.46	25
1,1,2,2-Tetrachloroethane	3.75	4.07	3.96	109	106	70.0-130			2.74	25
Tetrachloroethylene	3.75	4.08	4.02	109	107	70.0-130			1.48	25
Tetrahydrofuran	3.75	3.98	3.86	106	103	70.0-137			3.06	25
Toluene	3.75	4.06	3.96	108	106	70.0-130			2.49	25
1,2,4-Trichlorobenzene	3.75	4.17	3.94	111	105	70.0-160			5.67	25
1,1,1-Trichloroethane	3.75	3.96	3.87	106	103	70.0-130			2.30	25
1,1,2-Trichloroethane	3.75	4.07	3.94	109	105	70.0-130			3.25	25
Trichloroethylene	3.75	4.02	3.91	107	104	70.0-130			2.77	25
1,2,4-Trimethylbenzene	3.75	4.09	4.01	109	107	70.0-130			1.98	25
1,3,5-Trimethylbenzene	3.75	4.06	3.95	108	105	70.0-130			2.75	25
2,2,4-Trimethylpentane	3.75	4.04	3.92	108	105	70.0-130			3.02	25
Vinyl chloride	3.75	3.87	3.82	103	102	70.0-130			1.30	25
Vinyl Bromide	3.75	4.04	3.92	108	105	70.0-130			3.02	25
Vinyl acetate	3.75	3.82	3.77	102	101	70.0-130			1.32	25
m&p-Xylene	7.50	8.09	7.98	108	106	70.0-130			1.37	25
o-Xylene	3.75	4.03	3.94	107	105	70.0-130			2.26	25
TPH (GC/MS) Low Fraction	203	231	226	114	111	70.0-130			2.19	25
(S) 1,4-Bromofluorobenzene				*98.3*	*98.7*	*60.0-140*				

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

Method Blank (MB)

(MB) R3787766-3 05/03/22 08:48

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
(S) 1,4-Bromofluorobenzene	*96.9*			*60.0-140*

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

(LCS) R3787766-1 05/03/22 07:30 • (LCSD) R3787766-2 05/03/22 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 %
Cyclohexane	3.75	4.25	4.13	113	110	70.0-130			2.86	25
Heptane	3.75	4.06	4.06	108	108	70.0-130			0.000	25
n-Hexane	3.75	4.18	4.07	111	109	70.0-130			2.67	25
(S) 1,4-Bromofluorobenzene				*97.7*	*98.2*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Received by OCD: 11/8/2023 2:18:22 PM

Company Name/Address:
Ensolum, LLC
705 W. Wadley Ave, Ste 210
Midland, TX 79705

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

Pres Chk

Report to: **Beaux Jennings**

Email To: **bjennings@ensolum.com**

Project Description: Levey Well

City/State Collected: Hobbs, New Mexico

Please Circle: PT MT CT ET

Phone: **210-219-8858**

Client Project # 03B1417001

Lab Project # **ENSOLUMMTX-SUMMA**

Collected by (print): Aaron Marquez

Site/Facility ID # 03B1417001

P.O. # 03B1417001

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Remarks	Sample # (lab only)
Levey Well	G	Air	—	4-28-22	1152	1	X		-01

NFE AM 4-28-22

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1488254
D078

Acctnum: **ENSOLUMMTX**
Template: **T180734**
Prelogin: **P827709**
PM: **134 - Mark W. Beasley**
PB:
Shipped Via:

NP Sample Receipt Checklist

		If Applicable	
COC Seal Present/Intact:	__Y__N	VOA Zero Headspace:	__Y__N
COC Signed/Accurate:	__Y__N	Pres.Correct/Check:	__Y__N
Bottles arrive intact:	__Y__N		
Correct bottles used:	__Y__N		
Sufficient volume sent:	__Y__N		
RAD Screen <0.5 mR/hr:	__Y__N		

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 571961778710

Sample Receipt Checklist

		If Applicable	
COC Seal Present/Intact:	__NP __Y __N	VOA Zero Headspace:	__Y __N
COC Signed/Accurate:	__Y __N	Preservation Correct/Checked:	__Y __N
Bottles arrive intact:	__Y __N	RAD Screen <0.5 mR/hr:	__Y __N
Correct bottles used:	__Y __N		
Sufficient volume sent:	__Y __N		

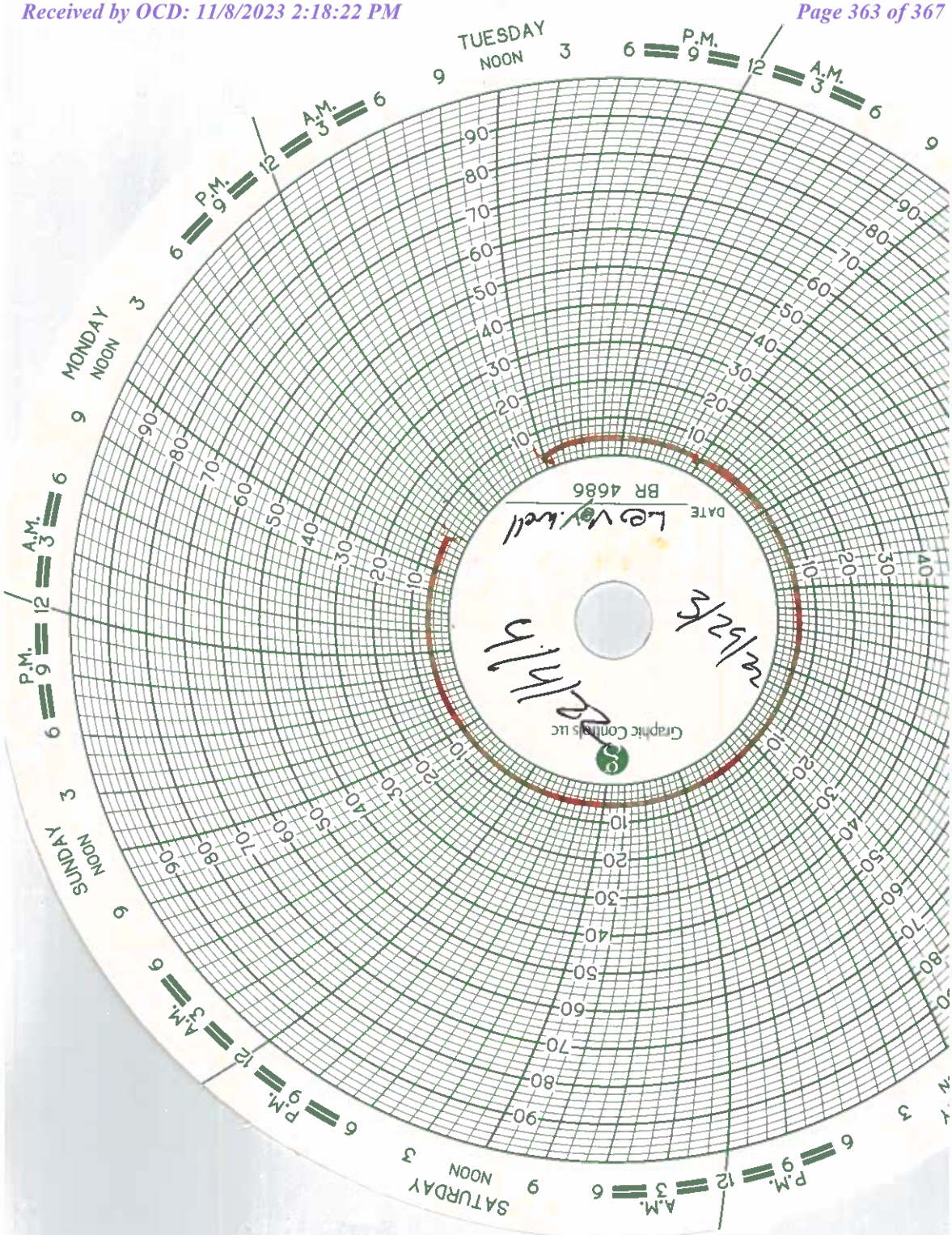
Relinquished by : (Signature)	Date: 4-29-22	Time: 9:49	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature)	Date: 4/29/22	Time: 1700	Received by: (Signature) FedEx	Temp: 4.1 °C Bottles Received: 1	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) D. Ramsey	Date: 4-30-22 Time: 900	Hold: Condition: NCF / OK

Released to Imaging: 3/20/2024 4:29:15 PM

ENSOLUM

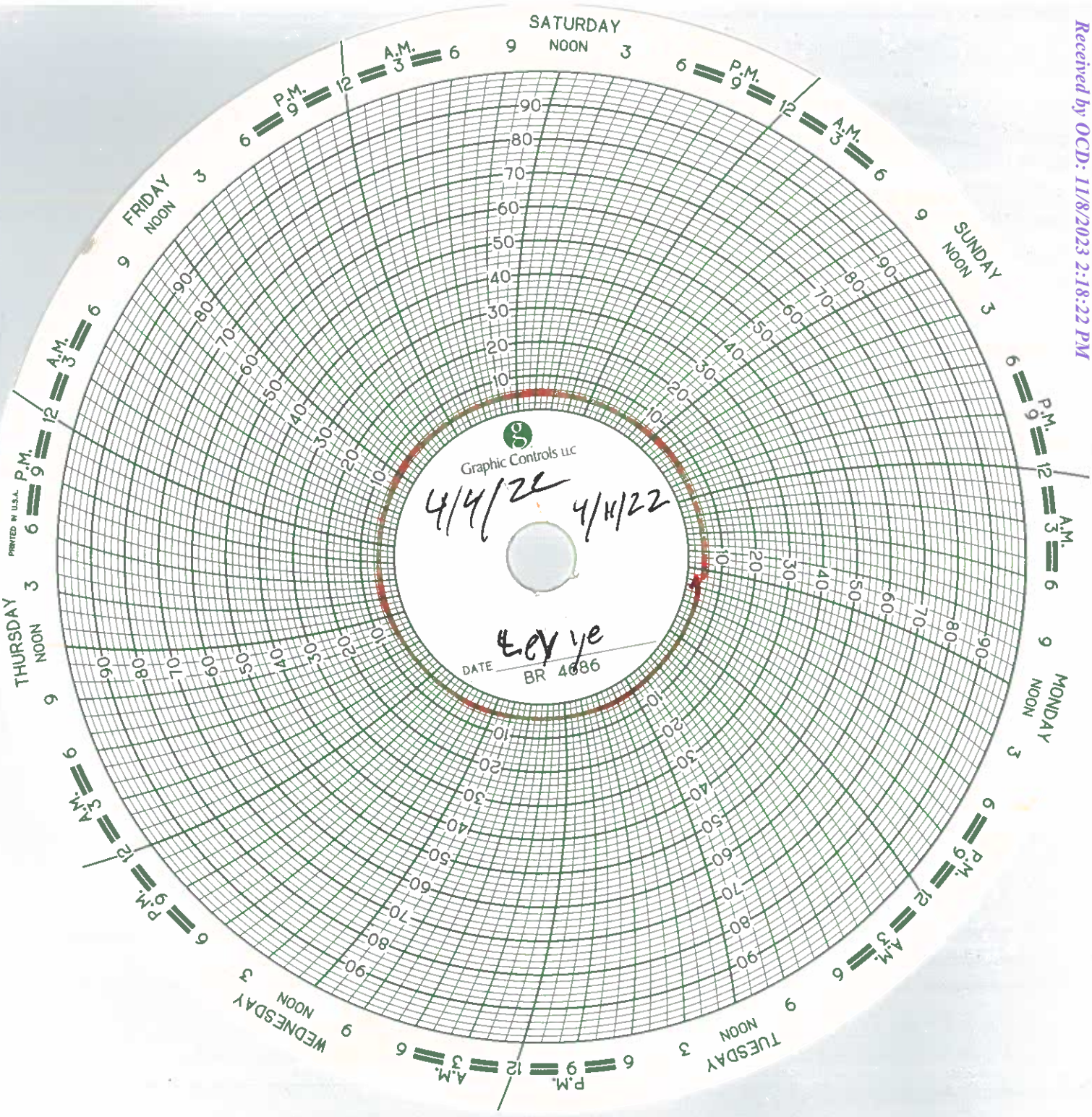
APPENDIX D

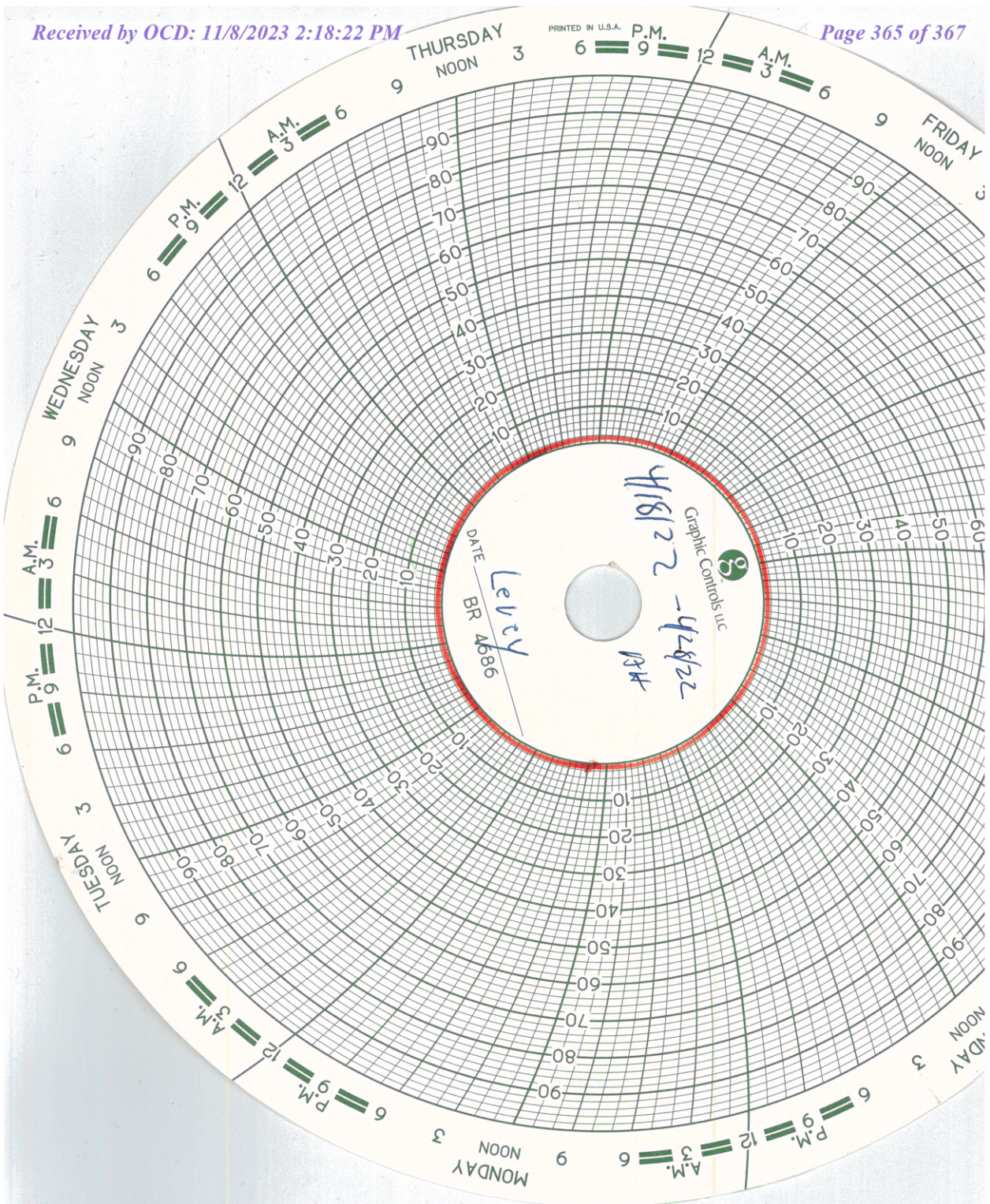
Levey Well Integrity Test Documentation

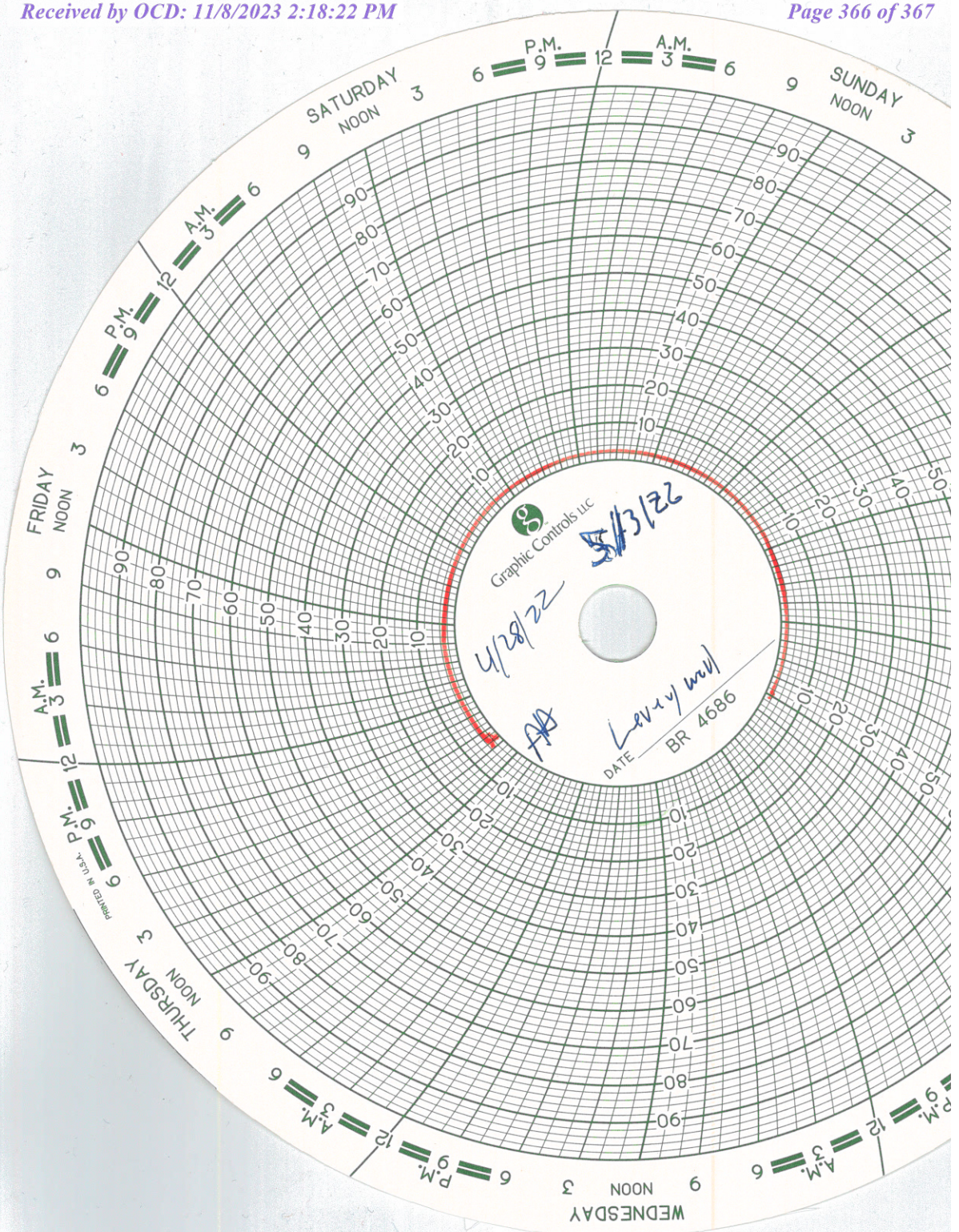

TUESDAY
NOON
P.M.
A.M.
MONDAY
NOON
SUNDAY
NOON
SATURDAY
NOON
DATE
BR 4686
Graphic Controls LLC

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Received by OCD: 11/8/2023 2:18:22 PM




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District I
1625 N. French Dr., Hobbs, NM 88240
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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 284034

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 284034
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Accepted for the record: GAS MITIGATION MONTHLY REPORT - APRIL 2022 Property: South Hobbs G/SA Unit EMNRD OCD Order No. R-4934-F, Case No. 14981	3/20/2024