



GAS MITIGATION MONTHLY REPORT - MAY 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**

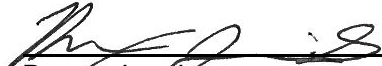
**New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981**

July 22, 2022

Prepared for:

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

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

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

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

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

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

OXY's groundwater monitoring program included the collection of a groundwater sample from each monitoring well (MW-1 and MW-2). The monitoring wells were gauged and sampled on May 26, June 30, August 20, October 23, November 24, December 18, 2020, and weekly thereafter. The Levey Well has been sampled consistently from December 6, 2019, to May 26, 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 May 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 0.0181 milligrams per liter (mg/L) to 0.0329 mg/L in monitoring well MW-2. Nitrite as N concentrations ranged from below the laboratory sample detection limit (SDL) to 2.77 mg/L in the Levey Well, below the SDL to 1.75 mg/L in monitoring well MW-1, and 0.373 mg/L to 11.5 mg/L in monitoring well MW-2. TDS analytical results ranged from 1,040 mg/L to 1,240 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**.

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

To mitigate potential exposures, the Levey residence was purchased by OXY and remains unoccupied. A passive vent was installed on the Levey Well to mitigate safety and explosivity concerns for the residential and work area. There has been no detectable build-up of pressure in the Levey Well or monitoring wells MW-1 and MW-2. Hydrogen sulfide (H_2S) has not been detected in any of the three (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 5/26/2022, with no pressure observed in either monitoring well. The pressure reading charts available for May 2022 are included in **Appendix D**.

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

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

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

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

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

1.2 Groundwater Recovery – Levey Well

As of July 1, 2021, the Levey Well has run full time and recovered groundwater is transferred via flowline to a nearby tank for proper disposal. The groundwater recovered from the Levey Well during May 1 - 31, 2022 was approximately 699,106 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 May 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 into June 2022 once every two (2) weeks until the sampling results of the air is minimal after displacement of the overlying pressure, or the process proves to become ineffective.

2.0 AIR AND GROUNDWATER MONITORING

2.1 Air Sampling Program

Levey Well

The air samples on May 9 and 23, 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 May 2022 sampling events are provided in **Appendix C**.

2.2 Groundwater Sampling Program

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

Levey Well

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

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

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

Monitoring Wells MW-1 and MW-2

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

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

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

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

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

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

3.0 DATA EVALUTATION

3.1 Air Samples

Gas mitigation activities at the Levey Well began on November 8, 2021 and will continue on a bi-weekly basis through June 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 May 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 1,040 mg/L to 1,240 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 groundwater samples collected on May 5 & 26, 2022 from the Levey Well exhibited Nitrite as N concentrations of 1.93 mg/L and 2.77 mg/L, which are above the WQCC GQS of 1.0 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 0.0181 mg/L to 0.0329 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

The groundwater sample collected on May 5, 2022 from monitoring well MW-1 exhibited a Nitrite as N concentration of 1.75 mg/L, which is above the WQCC GQS of 1.0 mg/L. Several Nitrite as N exceedances ranging from 1.14 mg/L to 11.5 mg/L from monitoring well MW-2 were observed during the May 2022 sampling, which are above the WQCC GQS of 1.0 mg/L.

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

4.0 RECOMMENDATIONS

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

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

- **Continue to remove free gas accumulations from the underlying red bed and groundwater-bearing zone on a bi-weekly basis to acceptable levels of removal to achieve compliance expectations. The air sampling process performed at the Levey Well will continue to be utilized, as described in Section 2.1;**
- **Continue to monitor the Levey Well and monitoring wells MW-1 and MW-2 utilizing daily pressure checks for significant changes in pressure, which could indicate a secondary source, until compliance of free gas removal is achieved; and**
- **Implement monthly sampling for water and air on the Levey Well and monitoring wells MW-1 and MW-2 for the remainder of 2022.**

5.0 REFERENCES

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

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

Nicholson, Jr. A. and A. Clebsch, Jr. 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. United States Geological Survey Ground-Water Report 6. Prepared in cooperation with the New Mexico Institute of Mining and Technology, State Bureau of Mines and Mineral Resources Division and the New Mexico State Engineer.

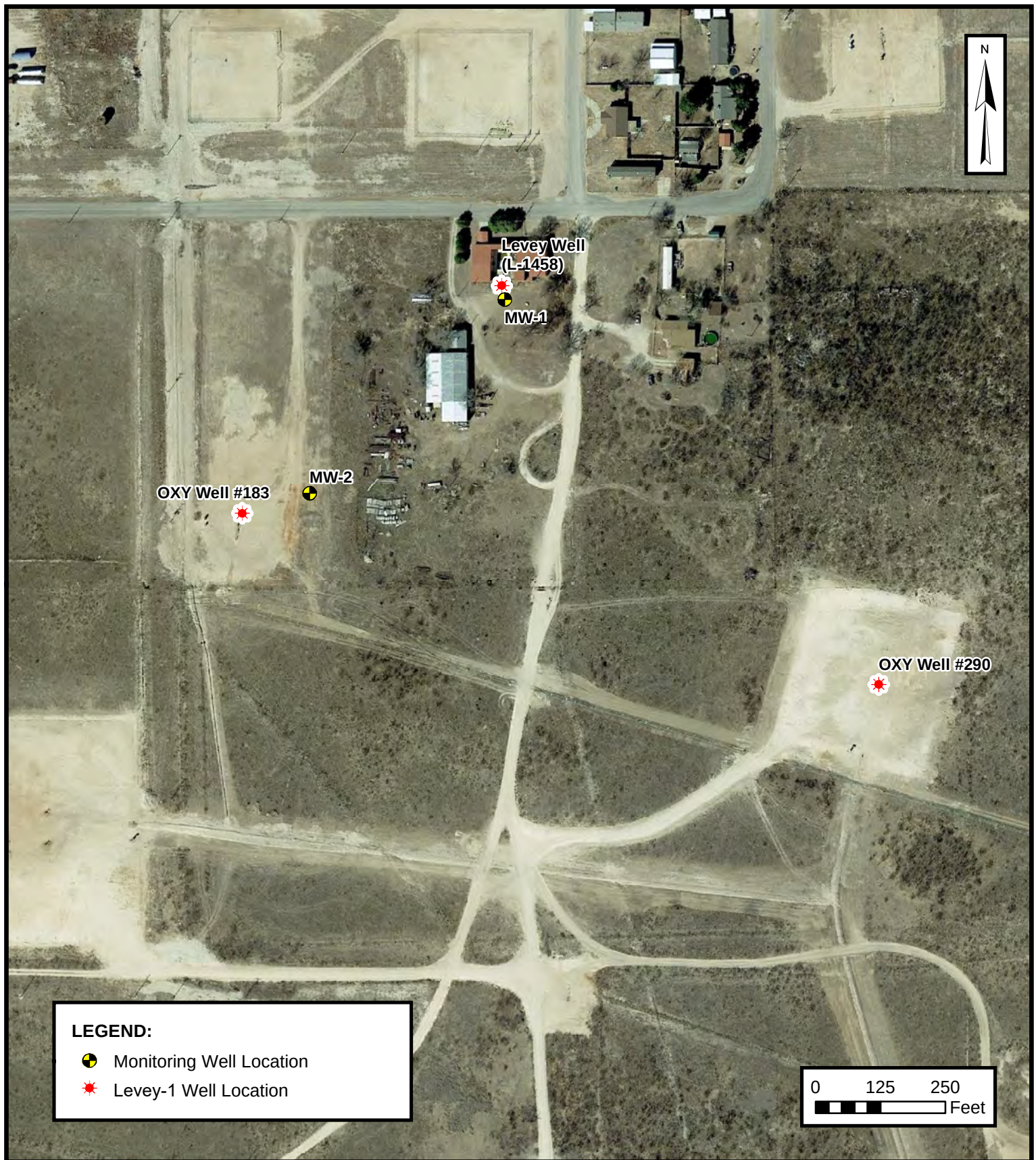
Gorody, A.W., 2012. Factors affecting the variability of stray gas concentration and composition ingroundwater. Environ. Geosci. 19, 17–31. <https://doi.org/10.1306/eg.12081111013>.

Molofsky, L.J., Richardson, S.D., Gorody, A.W., Baldassare, F., Connor, J.A., McHugh, T.E., Smith, A.P., Wylie, A.S., Wagner, T., 2018. Purging and other sampling variables affecting dissolved methane concentration in water supply wells. Sci. Total Environ. 618, 998-1007. <https://doi.org/10.1016/j.scitotenv.2017.09.077>.



APPENDIX A

Figures and Graphs



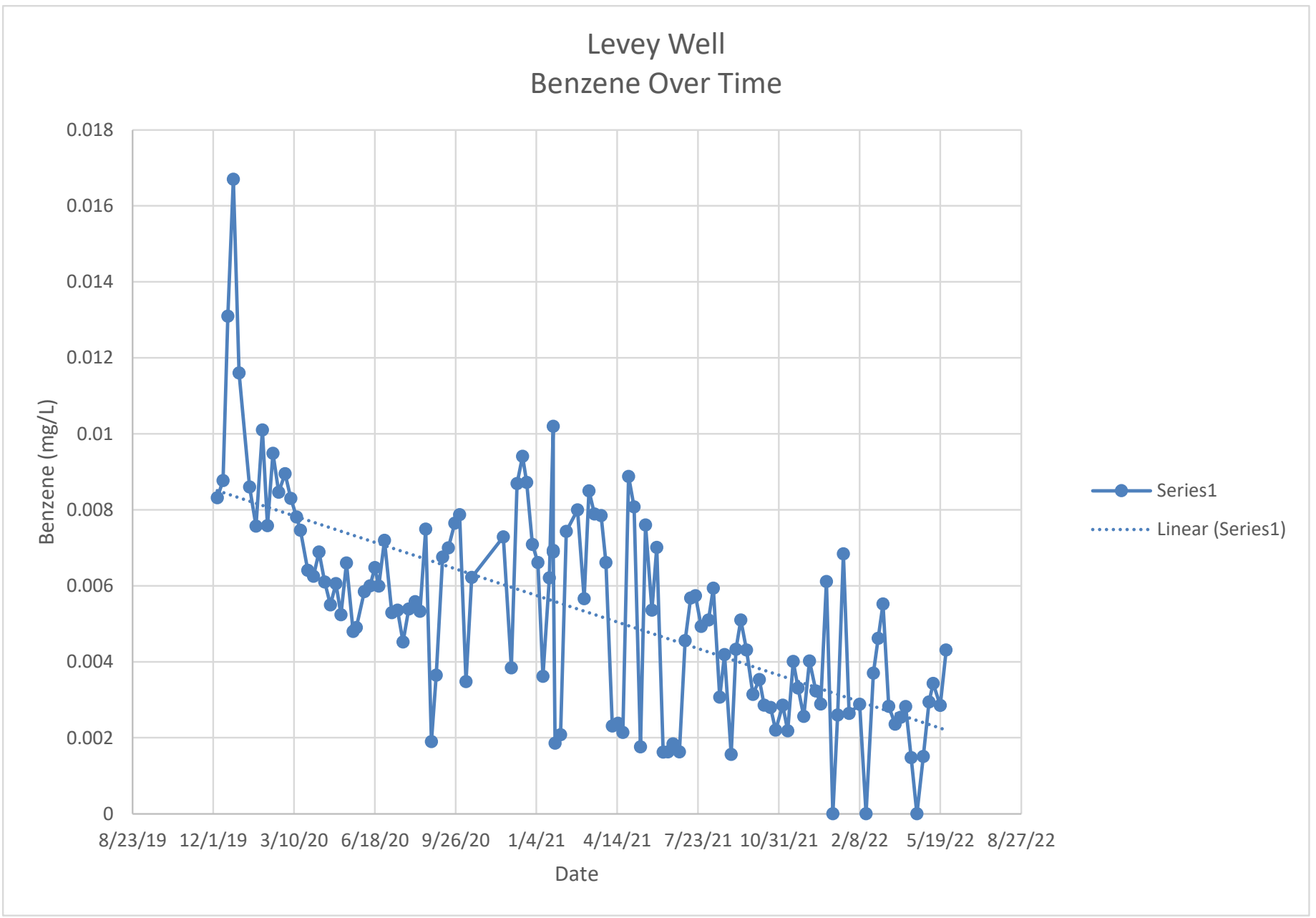
SITE MAP

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





APPENDIX B

Tables

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																														
Permian EOR - Levey Well																														
Hobbs, New Mexico																														
Well ID	Date	VOCs (mg/l)																												
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropane	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	<0.00500	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												

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-Dichloropropane	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															

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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)ene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/6/2022	0.000940 J	0.00568	0.00394	0.00181	0.0134	0.0152	<0.00270	<0.000286	0.000577 J	<0.000195	0.000654 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000397 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00213	<0.00200	0.00127	<0.000228	<0.000623	0.0168	0.00498
	1/12/2022	0.00260	0.0190	0.01020	0.00573	0.0381	0.0438	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000621 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00707	<0.00200	0.00273	<0.000228	<0.000623	0.0197	<0.000279
	1/19/2022	0.00684	0.0520	0.0252	0.0158	0.0980	0.114	0.00679 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00123	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0118	<0.00200	0.00592	<0.000228	<0.000623	0.0296	0.00947
	1/26/2022	0.00264	0.0206	0.0103	0.00604	0.0392	0.0452	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000568 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00507	<0.00200	0.00258	<0.000228	<0.000623	0.0139	0.00433
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.00288	0.0228	0.0122	0.00697	0.0458	0.0528	0.0112 J	<0.000286	0.00125	<0.000195	0.00194	<0.000259	<0.000318	<0.000214	<0.000183	0.000813 J	<0.000285	<0.000396	<0.000174	0.000211 J	<0.000481	0.00591	<0.00200	0.00329	<0.000228	<0.000623	0.0228	0.00693
	2/16/2022	0.000814 J	0.00676	0.00397	0.00212	0.0142	0.0163	<0.00270	<0.000286	<0.000199	<0.000195	0.00175	<0.000259	<0.000318	<0.000214	<0.000183	0.000336 J	<0.000285	0.000534 J	<0.000174	<0.000199	<0.000481	0.00202	<0.00200	0.00130	<0.000228	<0.000623	0.00924	0.00283
	2/25/2022	0.00370	0.0196	0.0133	0.00750	0.0489	0.0564	0.00976 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000696 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00626	<0.00200	0.00308	<0.000228	<0.000623	0.0131	0.00450
	3/3/2022	0.00462	0.0327	0.0162	0.00973	0.0634	0.0731	0.0180 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00731	<0.00200	0.00342	<0.000228	<0.000623	0.0140	0.00470
	3/9/2022	0.00552	0.0388	0.0204	0.0124	0.0768	0.0892	<0.00270	0.00169	0.00180	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00966	<0.00200	0.00484	<0.000228	<0.000623	0.0226	0.00720
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.00283	0.0227	0.0106	0.00619	0.0409	0.0471	<0.00270	<0.000286	0.000916 J	<0.000195	0.00174	<0.000259	<0.000318	<0.000214	<0.000183	0.000550 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00477	<0.00200	0.00238	<0.000228	<0.000623	0.0114	0.00388
	3/24/2022	0.00236	0.0178	0.00867	0.00491	0.0341	0.0390	<0.00270	0.000553 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000509 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00409	<0.00200	0.00208	<0.000228	<0.000623	0.0101	0.00323
	3/31/2022	0.00254	0.0197	0.00985	0.00574	0.0371	0.0428	0.00431 J	<0.000286	0.000932 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000605 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00482	<0.00200	0.00233	<0.000228	<0.000623	0.0121	0.00390
	4/6/2022	0.00282	0.0215	0.0106	0.00647	0.0405	0.0470	0.00381 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000581 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00491	<0.00200	0.00250	<0.000228	<0.000623	0.0125	0.00386
	4/13/2022	0.00148	0.0113	0.00559	0.00334	0.0211	0.0244	<0.00270	<0.000286	<0.000199	<0.000195	0.000531 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000351 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00269	<0.00200	0.00153	<0.000228	<0.000623	0.00856	0.00264
	4/20/2022	0.000594 J	0.00776	0.00375	0.00212	0.0158	0.0179	<0.00270	<0.000286	0.000408 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000239 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00196	<0.00200	0.000651 J	<0.000228	<0.000623	0.00643	0.00156
	4/28/2022	0.00151	0.0112	0.00540	0.00323	0.0207	0.0239	<0.00270	<0.000286	0.000523 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00238	<0.00200	0.00133	<0.000228	<0.000623	0.00733	0.00242
	5/5/2022	0.00294	0.0275	0.0130	0.00761	0.0515	0.0591	<0.00270	<0.000286	0.00117	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000709 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00600	<0.00200	0.00265	<0.000228	<0.000623	0.0145	0.00440
	5/10/2022	0.00343	0.0282	0.0132	0.00821	0.0517	0.0599	<0.00270	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000652 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00630	<0.00200	0.00301	<0.000228	<0.000623	0.0148	0.00463
5/19/2022	0.00285	0.0228	0.0107	0.00633	0.0424	0.0487	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000527 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.00232	<0.000228	<0.000623	0.0102	0.00345	
5/26/2022	0.00431	0.0360	0.0171	0.0109	0.0679	0.0788	<0.00270	<0.000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000918 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00840	<0.00200	0.00391	<0.000228	<0.000623	0.0182	0.00580	

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-Dichloropropane	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	<0.00100	<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	<0.0002860																										

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)ene	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	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 Incilment Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	0.000799 J	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	2/16/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	2/25/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/3/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/9/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/24/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	3/31/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	4/6/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	4/13/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	4/20/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	4/28/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	5/5/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	5/10/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
5/19/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279	
5/26/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279	

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-Dichloropropane	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	<0.000199	<0.000481	0.00931	<0.00200	0.00281	<0.000228	<0.000162	0.0287	0.00720
	3/17/2021	0.0238	0.0237	0.0257	0.0190	0.113	0.132	<0.0500	<0.00100	0.00113	<0.00100	<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	<0.00							

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)ene	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 Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.0184	0.00572	0.0133	0.00676	0.0653	0.0721	<0.00270	<0.00286	0.000510 J	<0.000195	<0.000500	<0.000259	0.00165 J	<0.000214	<0.000183	0.000391 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00544	<0.00200	0.00149	<0.000228	<0.000623	0.0150	0.00409
	2/16/2022	0.0357	0.0270	0.0391	0.0307	0.205	0.244	<0.00270	<0.00286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000884 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0127	<0.00200	0.00392	<0.000228	<0.000623	0.0393	0.0103
	2/25/2022	0.0341	0.00559	0.0206	0.0111	0.134	0.145	<0.00270	<0.0000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000996 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0114	<0.00200	0.00295	<0.000228	<0.000623	0.0386	0.00997
	3/3/2022	0.0370	0.00673	0.0378	0.0160	0.225	0.244	<0.00270	<0.0000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00117	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0152	<0.00200	0.00456	<0.000228	<0.000623	0.0496	0.0126
	3/9/2022	0.0182	0.00790	0.0186	0.0131	0.0857	0.0988	<0.00270	<0.0000286	0.000910 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000683 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00211	<0.000228	<0.000623	0.0240	0.00659
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.0200	0.00793	0.0209	0.0133	0.0947	0.108	<0.00270	<0.0000286	0.000759 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000524 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00753	<0.00200	0.00212	<0.000228	<0.000623	0.0216	0.00583
	3/24/2022	0.0400	0.0151	0.0490	0.0321	0.252	0.284	<0.00270	0.00104	0.00192	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00135	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00487	<0.000228	<0.000623	0.0679	0.0170
	3/31/2022	0.0305	0.0309	0.0274	0.0311	0.267	0.311	<0.00270	0.00102	0.00142	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00138	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00896	<0.00200	0.00203	<0.000228	<0.000623	0.0551	0.0138
	4/6/2022	0.0303	0.0170	0.0140	0.0228	0.191	0.218	<0.00270	0.000939 J	0.00104	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00128	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00534	<0.00200	0.00110	<0.000228	<0.000623	0.0517	0.0136
	4/13/2022	0.0303	0.0271	0.0235	0.0218	0.135	0.157	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000812 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00770	<0.00200	0.00212	<0.000228	<0.000623	0.0368	0.00937
	4/20/2022	0.0246	0.0126	0.0157	0.0171	0.0994	0.117	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000513 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00439	<0.00200	0.000555 J	<0.000228	<0.000623	0.0224	0.00580
	4/28/2022	0.0384	0.0164	0.0617	0.0403	0.292	0.333	<0.00270	0.00162	0.00214	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00176	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0222	<0.00200	0.00675	<0.000228	<0.000623	0.0872	0.0220
	5/5/2022	0.0181	0.00219	0.0172	0.00988	0.110	0.120	<0.00270	0.000629 J	0.000796 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000733 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00608	<0.00200	0.00123	<0.000228	<0.000623	0.0276	0.00751
	5/10/2022	0.0197	0.00422	0.0184	0.0142	0.129	0.143	<0.00270	<0.000286	0.000957 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000953 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00681	<0.00200	0.00180	<0.000228	<0.000623	0.0367	0.00949
	5/19/2022	0.0329	0.00659	0.0505	0.0254	0.367	0.407	<0.00270	0.00159	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0196	<0.00200	0.00593	<0.000228	<0.000623	0.0645	0.0173
	5/26/2022	0.0238	0.00151	0.0208	0.00782	0.105	0.113	<0.00270	0.000780 J	0.00102	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000846 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00912	<0.00200	0.00268	<0.000228	<0.000623	0.0317	0.00846

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



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

Permian EOR - Levey Well

Hobbs, New Mexico

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



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

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	(mg/l)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
Levey Well	1/6/2021	0.784	504	<0.500	0.155	2.61	23.0	400	79.8	6.14	135	2,210	1,340	<4.00	8.10	6.27
	1/12/2021	0.605	326	<0.500	0.137	1.05	<0.500	324	64.3	5.68	97.8	1,680	1,160	<4.00	7.00	6.57
	1/20/2021	0.796	486	<0.500	0.138	<0.100	7.68	397	73.0	6.00	127	2,170	1,200	<4.00	5.70	6.24
	1/27/2021	0.510	264	0.905	0.137	1.16	23.1	296	55.1	4.75	83.1	1,350	875	<4.00	1.70	6.38
	2/3/2021	0.501	275	0.842	0.122	1.02	20.5	329	59.0	4.76	89.4	1,370	940	<4.00	0.00	6.37
	2/10/2021	0.615	561	<0.500	0.147	0.308	24.9	416	77.9	7.03	156	1,980	1,170	<4.00	4.50	6.31
	2/24/2021	0.695	576	<0.500	0.163	2.6	31.4	450	81.3	7.94	164	2,260	1,190	<4.00	2.50	6.22
	3/4/2021	0.789	585	<0.500	0.121	0.215	54.1	425	77.8	6.41	151	2,090	1,050	<4.00	3.00	6.34
	3/10/2021	0.756	540	<0.500	0.147	<0.100	45.5	417	76.3	5.54	139	1,940	1,160	<4.00	5.10	6.29
	3/17/2021	0.813	519	1.21	0.169	<0.100	33.8	436	71.3	6.10	127	1,910	1,200	<4.00	4.70	5.97
	3/25/2021	<10.0	529	<10.0	<2.00	1.99 J	20.2	435	78.0	7.14	136	2,320	1,250	<4.00	-10.80	6.6
	3/31/2021	0.785	499	0.358 J	0.130	<0.0293	16.5	416	74.3	6.73	132	1,650	1,150	<4.00	-9.18	6.4
	4/8/2021	<0.500	254	0.869	<0.100	0.121	23.3	271	46.7	5.00	74.5	1,120	785	<4.00	-9.60	6.5
	4/15/2021	0.545	253	0.939	<0.100	<0.100	34.1	283	53.5	4.66	82.8	998	793	<4.00	-7.22	6.5
	4/21/2021	0.460 J	253	0.729	0.125	<0.0293	9.23	278	52.4	4.83	81.4	1,210	869	<4.00	-10.1	6.4
	4/28/2021	0.841	497	0.196 J	0.133	<0.0293	21.2	416	75.8	6.88	133	2,000	1,290	<4.00	-12.5	6.3
	5/5/2021	0.780	475	0.362 J	0.151	<0.0293	13.6	428	80.1	7.43	123	2,120	1,230	<4.00	-9.6	6.2
	5/13/2021	0.469 J	239	1.01	0.126	0.756 J	28.5	238	46.1	4.10	72.6	1,150	737	<4.00	-11.9	6.7
	5/19/2021	0.725	566	0.324 J	<0.0391	2.93	21.0	494	91.6	8.14	164	2,160	1,260	<4.00	-5.71	6.3
	5/27/2021	0.579	419	0.499 J	0.137	0.136	16.7	406	73.3	6.47	123	1,370	810	<4.00	1.85	6.5
	6/2/2021	0.712	488	0.303 J	0.128	<0.0293	23.7	447	82.8	7.43	139	2,140	1,120	<4.00	-4.83	6.3
	6/10/2021	0.415 J	247	1.10	0.124	1.38	22.2	273	54.9	4.90	84.8	1,270	669	<4.00	-2.53	6.5
	6/16/2021	0.405 J	227	0.946	0.125	<0.0293	11.5	267	56.0	4.64	84.4	1,500	723	<4.00	-3.70	6.7
	6/22/2021	0.405 J	230	1.00	0.117	1.67	28.9	298	53.1	4.74	80.7	1,230	657	<4.00	0.795	6.7
	6/30/2021	0.398 J	237	1.07	0.140	0.205	23.8	258	51.9	4.32	74.6	1,200	676	<4.00	-5.560	6.9
	7/1/2021	Levey Well Now Running Full Time														
	7/7/2021	0.469 J	305	0.705	0.128	<0.0293	41.3	337	67.2	5.46	96.3	1,780	764	<4.00	-0.751	6.6
	7/14/2021	0.446 J	297	0.753	0.151	0.167	41.6	323	61.9	4.56	87.0	1,200	785	<4.00	-3.73	6.4
	7/20/2021	0.180 J	290	0.223 J	0.0457 J	<0.0293	38.2	317	65.9	5.31	96.1	1,620	854	<4.00	-5.11	6.4
	7/27/2021	0.437 J	281	0.491 J	0.126	1.42	41.3	338	66.9	5.14	95.9	1,240	790	<4.00	-0.522	6.2
	8/5/2021	0.400 J	275	0.565	0.158	<0.0293	43.3	334	68.8	5.00	90.9	1,610	714	<4.00	2.12	6.6
	8/11/2021	0.446 J	261	0.512	0.154	1.81	43.2	298	64.8	4.96	89.8	1,470	764	<4.00	-3.46	6.4
	8/19/2021	0.583	380	0.357 J	0.177	0.694	39.1	336	68.2	6.69	111	2,030	769	<4.00	-3.85	6.6
	8/25/2021	0.483 J	249	0.680	0.125	1.13	41.4	305	59.6	4.65	83.9	1,050	698	<4.00	-0.532	6.6
	9/2/2021	0.418 J	233	0.688	0.110	0.147	20.1	287	52.2	3.98	75.2	1,140	588	<4.00	2.27	7.0
	9/8/2021	0.357 J	257	0.442 J	0.0997 J	1.20	43.4	300	61.8	4.83	87.3	1,360	703	<4.00	-1.15	6.6
	9/14/2021	0.372 J	250	0.511	0.118	1.11	42.3	285	58.7	4.81	81.7	988	730	<4.00	-4.44	6.4
	9/21/2021	0.546	227	0.951	0.224	<0.0293	37.4	313	68.2	5.30	97.5	1,080	610	<4.00	7.72	6.6
	9/29/2021	0.535	248	0.542	0.186	0.164	41.9	302	59.9	4.60	85.4	1,410	765	<4.00	-2.94	6.6
	10/7/2021	0.454 J	235	0.582	1.10	<0.0293	40.5	323	65.5	4.79	88.3	1,310	765	<4.00	0.449	6.6
	10/13/2021	0.459 J	238	0.608	0.198	1.10	40.9	252	52.7	3.97	75.6	1,030	765	<4.00	-10.6	6.7
	10/21/2021	0.470 J	227	0.557	0.143	<0.0293	36.9	238	51.0	3.54	72.5	1,250	722	<4.00	-10.2	6.5
	10/27/2021	0.444 J	238	0.469 J	0.193	0.0910 J	42.5	330	67.2	5.31	94.2	1,290	706	<4.00	3.95	6.7
	11/5/2021	0.367 J	231	1.45	0.220	<0.0293	41.7	328	63.6	5.06	90.7	1,050	657	<4.00	5.76	6.9
	11/11/2021	0.379 J	229	0.594	0.238	<0.0293	36.9	221	48.1	3.36	71.5	1,140	571	<4.00	-5.92	7.0
	11/18/2021	0.560	247	0.397 J	0.176	<0.0293	44.3	276	50.8	4.29	76.4	1,350	698	<4.00	-5.71	6.6
	11/24/2021	0.455 J	232	0.646	0.203	0.718	41.9	253	52.5	4.07	76.6	1,240	546	<4.00	-0.200	6.6
	12/1/2021	0.497 J	233	0.652	0.144	<0.0293	42.0	284	55.9	4.31	82.4	1,040	644	<4.00	-0.133	6.9
	12/8/2021	0.516	230	0.620	0.187	<0.0293	42.5	261	55.8	4.20	82.9	1,200	633	<4.00	-1.56	6.5
	12/16/2021	0.490 J	228	0.528	0.251	<0.0293	42.1	282	55.3	4.13	81.9	1,280	649	<4.00	-0.883	6.4
	12/22/2021	0.480 J	230	0.294 J	0.223	<0.0293	43.3	304	58.5	4.66	85.8	1,270	619	<4.00	3.67	6.4
	12/29/2021	0.476 J	225	0.588	0.224	<0.0293	43.8	300	57.5	4.69	84.9	1,220	657	<4.00	1.62	6.6
	1/6/2022	0.386 J	226	0.500	0.182	<0.0293	42.7	278	52.9	4.11	79.0	1,650	711	<4.00	-4.09	6.4
	1/12/2022	0.438 J	223	0.561	0.178	<0.0293	42.8	254	49.2	3.60	71.9	1,090	633	<4.00	-4.90	6.1
	1/19/2022	0.446 J	223	0.523	0.178	<0.0293	43.6	288	57.2	4.34	80.1	1,780	688	<4.00	-1.41	6.3
	1/26/2022	0.440 J	220	0.580	0.181	0.0834 J	41.7	286	56.4	4.50	85.1	1,140	706	<4.00	-1.64	6.4
2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.															
2/8/2022	0.780	329	1.24	<0.0391												



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

Permian EOR - Levey Well

Hobbs, New Mexico

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



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															
	1/6/2021	NA	124	NA															
	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 Incimient Weather. Booster Pump for Levey Well Damaged by Freeze.																
	2/8/2022	NA	148	0.156 J	0.683	1.03	125	NA					1,290	<4.00	NA	6.1			
	2/16/2022	NA	186	0.409 J	0.809	0.338	113	NA					1,320	<4.00	NA	6.2			
	2/25/2022	NA	133	0.704	0.536	0.647	154	NA					1,280	<4.00	NA	6.3			
	3/3/2022	NA	126	<0.100	0.776	0.992	112	NA					1,360	<4.00	NA	6.1			
	3/9/2022	NA	167	<0.100	0.789	2.12	133	NA					1,330	<4.00	NA	6.2			
	3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																
	3/16/2022	NA	165	<0.100	0.890	1.47	135	NA					1,350	<4.00	NA	6.2			
	3/24/2022	NA	140	<0.100	<0.0391	0.389	120	NA					1,320	<4.00	NA	6.3			
	3/31/2022	NA	150	<0.100	<0.0391	1.65	106	NA					1,340	<4.00	NA	6.3			
4/6/2022	NA	130	0.175 J	0.619	1.60	111	NA					1,360	<4.00	NA	6.2				
4/13/2022	NA	135	0.271 J	0.589	1.67	108	NA					1,380	<4.00	NA	6.5				
4/20/2022	NA	198	0.174 J	0.966	0.722	121	NA					1,330	<4.00	NA	6.4				
4/28/2022	NA	156	0.172 J	0.711	0.434	118	NA					1,380	<4.00	NA	6.4				
5/5/2022	NA	116	0.229 J	0.586	11.5	112	NA					1,330	<4.00	NA	6.3				
5/10/2022	NA	134	0.230 J	0.548	1.83	120	NA					1,320	<4.00	NA	6.3				
5/19/2022	NA	133	0.116 J	<0.0391	0.373	118	NA					1,380	<4.00	NA	6.2				
5/26/2022	NA	107	0.196 J	0.392	1.14	104	NA					1,320	<4.00	NA	6.0				



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		
5/5/2022	<0.495	31.8	<0.912	<0.912	<0.880	<0.912	19.5		
5/10/2022	1.20 J	31.5	<0.985	<0.985	<0.950	<0.985	16.7		
5/19/2022	0.600 J	41.5	<0.926	<0.926	<0.894	<0.926	20.3		
5/26/2022	1.00 J	32.2	<0.920	<0.920	<0.888	<0.920	18.0		



TABLE 3 - GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY									
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		
5/5/2022	0.600 J	1,330	1.40 J	<0.920	<0.888	1.40 J	19.2		
5/10/2022	<0.495	1,320	1.63 J	<0.965	<0.932	1.63 J	16.8		
5/19/2022	<0.495	1,740	1.80 J	<0.915	<0.883	1.80 J	20.5		
5/26/2022	<0.495	2,650	1.02 J	<0.950	<0.917	1.02 J	18.1		

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

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/25/2021	0823	229	<6.39	<7.76	9.52	<4.13	<10.3	575	<8.10	<7.93	324	<8.67	<9.82	<11.2	<17.0	299	980	<9.83	<6.94	<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	<111																							

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																																				
	1/6/2022	1031	<59.4	<12.8	<15.5	<12.4	8.26	<20.6	4,580	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	5,690	15,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	87.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	22.7	<19.6	<14.1	<34.7	<17.3	188,000	
		0000	<297	<63.9	<77.6	<62.2	<41.3	<103	10,600	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	20,500	130,000	<98.3	110	<511	<369	<512	<81.9	<330	4,230	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	508,000	
		1/12/2022	1352	31,400	<12.8	<15.5	<12.4	8.26	<20.6	164,000	<16.2	<15.9	<47.1	115	491	<22.5	<19.8	342,000	1,680,000	98.8	<13.9	<102	5,570	<102	<16.4	85.9	81,900	<17.0	<27.2	<11.8	263	<21.8	<21.4	400	433	<14.1	341	156	6,820,000
		1/17/2022	0852	14,900	<639	<776	<622	<413	<1,030	119,000	<810	<793	<2,360	<867	<982	<1,120	<989	160,000	1,440,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	25,800	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	6,110,000
			0853	Initiate Vacuum Recovery Event																																			
	0919		227	<0.639	<0.776	<0.622	<0.413	<1.03	3,650	<0.810	<0.793	19.8	2.15	1.70	1.52	1.84	6,260	19,100	1.22	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	202	<0.851	<1.36	<0.590	8.32	<1.09	<1.07	2.84	2.87	<0.704	5.20	2.15	132,000	
	1004		90.3	<0.639	<0.776	<0.622	1.30	<1.03	747	<0.810	<0.793	56.2	2.58	4.13	1.40	2.60	1,610	4,300	2.46	<0.694	<5.11	16.4	<5.12	<0.819	<3.30	114	<0.851	2.69	<0.590	15.6	<1.09	<1.07	11.5	8.44	<0.704	7.50	3.13	31,600	
	1021		Vacuum Recovery Event Terminated																																				
	1/19/2022	1134	466	<0.639	<0.776	<0.622	1.64	<1.03	2,400	<0.810	<0.793	16.8	5.42	9.67	1.38	2.14	4,620	10,800	5.26	<0.694	<5.11	54.3	<5.12	<0.819	3.42	494	<0.851	27.5	<0.590	23.8	<1.09	<1.07	20.8	18.7	<0.704	17.7	7.46	95,400	
		1208	454	<31.9	<38.8	<31.1	<20.7	<51.5	11,300	<40.5	<39.6	149	<43.4	94.2	<56.2	<49.5	28,800	171,000	<49.2	<34.7	<256	<184	<256	966	<165	3,740	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	81.0	221	<35.2	<86.7	<43.4	508,000	
	1/26/2022	1251	<59.4	<12.8	<15.5	<12.4	8.26	<20.6	28,900	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	22,900	313,000	<22.5	<13.9	<102	<73.7	<102	<16.4	<66.0	248	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	1,180,000	
	2/2/2022	0921	4,040	5,940	<155	<124	82.6	<206	229,000	<162	<159	<471	195	<196	<225	<198	217,000	8,710,000	<197	<139	<1020	1,360	<1,020	<164	<660	10,800	<170	<272	<118	1,220	<218	<214	<196	<196	<141	481	<173	3,620,000	
		0922	Initiate Vacuum Recovery Event																																				
		0950	337	415	<15.5	<12.4	8.26	<20.6	16,700	<16.2	<15.9	<47.1	147	<19.6	<22.5	<19.8	36,200	114,000	<19.7	<13.9	<102	231	<102	<16.4	<66.0	88.2	<17.0	<27.2	<11.8	313	<21.8	<21.4	27.0	<19.6	<14.1	370	108	409,000	
		1030	56.8	29.9	<0.776	<0.622	<0.413	<1.03	2,280	<0.810	<0.793	10.5	25.2	<0.982	<1.12	2.47	5,440	9,380	2.05	<0.694	<5.11	34.5	<5.12	<0.819	<3.30	30.2	<0.851	<1.36	<0.590	46.3	<1.09	<1.07	9.18	6.58	<0.704	62.9	17.6	71,500	
		1047	Vacuum Recovery Event Terminated																																				
	2/8/2022	1158	80.8	29.7	<0.776	<0.622	<0.413	<1.03	2,750	<0.810	<0.793	4.13	19.1	<0.982	<1.12	2.58	5,850	8,670	1.82	<0.694	<5.11	36.9	<5.12	<0.819	<3.30	43.0	<0.851	<1.36	<0.590	38.8	<1.09	<1.07	7.80	5.35	<0.704	46.8	13.0	59,500	
		1200	88.6	<0.639	<0.776	<0.622	<0.413	<1.03	1,310	<0.810	<0.793	<2.36	27.2	<0.982	<1.12	<0.989	2,640	13,700	14.5	<0.694	<5.11	15.5	<5.12	<0.819	3.64	76.2	<0.851	3.38	<0.590	12.3	<1.09	<1.07	43.8	46.5	<0.704	91.9	39.4	83,000	
	2/16/2022	1224	215	<12.8	<15.5	<12.4	8.26	<20.6	37,500	<16.2	<15.9	<47.1	<17.3	22.1	<22.5	<19.8	7,280	62,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	156	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	23.1	19.6	<14.1	38.4	<17.3	272,000	
	2/23/2022	1021	1,950	<0.639	<0.776	<0.622	<0.413	<1.03	30,900	<0.810	<0.793	120	3.00	<0.982	<1.12	<0.989	5,360	176,000	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	73.8	<1.09	<1.07	1.84	1.47	<0.704	3.42	1.12	261,000	
		1022	Initiate Vacuum Recovery Event																																				
		1043	104	101	<0.776	<0.622	1.44	<1.03	3,280	<0.810	<0.793	62.4	4.60	1.30	1.64	2.42	1,040	2,500	<0.983	<0.694	<5.11	34.2	<5.12	<0.819	<3.30	14.2	<0.851	<1.36	<0.590	57.6	<1.09	<1.07	3.47	3.29	<0.704	6.89	1.96	30,000	
		1118	<29.7	25.9	<7.76	<6.22	<4.13	<10.3	737	<8.10	<7.93	42.2	<8.67	<9.82	<11.2	<9.89	290	610	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	20.3	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	8,510	
		1134	Vacuum Recovery Event Terminated																																				
	2/25/2022	1241	<2.97	<0.639	<0.776	<0.622	1.40	<1.03	1,380	<0.810	<0.793	<2.36	<0.867	<0.982	1.58	1.76	272	1,290	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	7.61	<1.09	<1.07	<0.982	<0.982	<0.704	<1.73	<0.867	13,200	
		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	
	2/28/2022	1405	<149	<31.9	<38.8	<31.1	<20.7	<51.5	520	<40.5	<39.6	837	<43.4	<49.1	<56.2	<49.5	220	3,390	<49.2	47.6	<256	<184	<256	766	<165	8,480	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300	
		1406	Initiate Vacuum Recovery Event																																				
		1510	<2.97	1.79	<0.776	<0.622	<0.413	<1.03	305	<0.810	<0.793	7.45	2.05	2.40	<1.12	2.13	182	511	1.12	<0.694	<5.11	10.6	<5.12	<0.819	<3.30	25.6	<0.851	<1.36	<0.590	3.74	<4.66	<1.07	4.96	4.91	<0.704	3.20	1.44	6,440	
		1428	<149	<31.9	<38.8	<31.1	<20.7	<51.5	654	<40.5	<39.6	684	<43.4	<49.1	<56.2	<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																																				
	3/9/2022	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	0.8																			

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																																						
Permian EOR - Levey Well																																						
Hobbs, New Mexico																																						
Well ID	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	5/5/2022	1454	<1,190	<256	<311	<249	<165	<412	30,500	<324	<317	<943	<347	<393	<450	<396	47,000	673,000	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	8,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	1,430,000
	5/9/2022	0958	<1,190	<256	<311	<249	<165	<412	49,200	<324	<317	2,660	<347	<393	<450	<396	66,300	850,000	<393	<278	<2,040	3,480	<2,050	<328	<1,320	26,100	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,380,000
		1000	Initiate Vacuum Recovery Event																																			
		1020	333	<0.639	<0.776	1.34	1.81	<1.03	995	<0.810	<0.793	42.4	4.07	17.1	<1.12	1.20	2,530	8,780	<0.983	<0.694	<5.11	203	<5.12	<0.819	5.09	76.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.9	20.8	<0.704	7.02	5.94	54,100
		1057	90.8	<0.639	<0.776	<0.622	2.85	<1.03	159	<0.810	<0.793	13.3	<0.867	1.08	1.31	1.81	385	1,040	<0.983	<0.694	<5.11	33.6	<5.12	<0.819	<3.30	13.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	1.54	2.56	<0.704	<1.73	1.03	8,220
		1105	Vacuum Recovery Event Terminated																																			
		1218	130	1.41	6.83	31.0	15.5	<1.03	3,090	<0.810	<0.793	32.2	3.73	7.02	<1.12	<0.989	6,260	4,830	1.60	<0.694	<5.11	193	<5.12	<0.819	<3.30	403	<0.851	<1.36	<0.590	6.37	<1.09	<1.07	8.59	15.2	<0.704	5.64	5.03	124,000
	5/19/2022	1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	104,000	<64.8	<63.4	1,070	<69.4	<78.5	<89.9	<79.1	183,000	1,340,000	<78.7	105	<409	<295	<409	<65.5	<264	4,130	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	4,750,000
	5/23/2022	1015	12,100	<51.1	<62.1	<49.8	<33.0	<82.5	558,000	<96.2	<63.4	<189	<69.4	633	<89.9	<79.1	912,000	8,140,000	<78.7	<55.6	<409	14,100	<409	<65.5	<264	7,740	<68.1	<109	<47.2	<151	<87.0	<85.7	376	854	<56.3	<139	<69.4	27,600,000
		1017	Initiate Vacuum Recovery Event																																			
		1100	<238	<51.1	<62.1	<49.8	<33.0	<82.5	13,400	<64.8	<63.4	549	<69.4	158	<89.9	<79.1	70,800	263,000	<78.7	<55.6	<409	1,090	<409	<65.5	<264	7,450	<68.1	<109	<47.2	<151	<87.0	<85.7	86.9	215	<56.3	<139	<69.4	702,000
		1200	927	<12.8	<15.5	<12.4	<10.6	<20.6	6,410	<16.2	<15.9	196	<17.3	185	<22.5	<19.8	15,200	50,400	<19.7	<13.9	<102	590	<102	<16.4	<66.0	263	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	121	271	<14.1	<34.7	<17.3	450,000
		1215	Vacuum Recovery Event Terminated																																			
		1355	4,350	<51.1	<62.1	<49.8	88.6	<82.5	16,300	<64.8	<63.4	562	<69.4	146	<89.9	<79.1	47,000	154,000	<78.7	<55.6	<409	1,580	<409	<65.5	<264	7,520	<68.1	<109	<47.2	<151	<87.0	<85.7	85.9	205	<56.3	<139	<64.4	785,000
	5/26/2022	1250	49,400	<1,280	<1,550	<1,240	<826	<2,060	196,000	<1,620	<1,590	12,900	<1,730	<1,960	<2,250	<1,980	336,000	28,000,000	<1,970	<1,390	<10,200	8,230	<10,200	<1,640	<6,600	161,000	<1,700	<2,720	<1,180	<3,770	<2,180	2,330	<1,960	<1,960	<1,410	<3,470	<1,730	8,260,000

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



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-14474-1

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:

5/23/2022 3:22:43 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-14474-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-14474-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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

Glossary

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

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-14474-1
SDG: Hobbs NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Case Narrative

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

Job ID: 880-14474-1
SDG: Hobbs NM

Job ID: 880-14474-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-14474-1

Receipt

The sample was received on 5/6/2022 8:24 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-52114 recovered outside control limits for the following analytes: Dichloro difluoromethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

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

HPLC/IC

Method 300_ORGFMS: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: Levey Well (880-14474-1).

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

Metals

Method 200.7: Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-52152 and analytical batch 860-53969 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: 880-14474-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-14474-1

Date Collected: 05/05/22 12:08

Matrix: Water

Date Received: 05/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00294		0.00100	0.000214	mg/L		05/09/22 13:09	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		05/09/22 13:09	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		05/09/22 13:09	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		05/09/22 13:09	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		05/09/22 13:09	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		05/09/22 13:09	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		05/09/22 13:09	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		05/09/22 13:09	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		05/09/22 13:09	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		05/09/22 13:09	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		05/09/22 13:09	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		05/09/22 13:09	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		05/09/22 13:09	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		05/09/22 13:09	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		05/09/22 13:09	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		05/09/22 13:09	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		05/09/22 13:09	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		05/09/22 13:09	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		05/09/22 13:09	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		05/09/22 13:09	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		05/09/22 13:09	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		05/09/22 13:09	1
Dichlorodifluoromethane	<0.000316	U **	0.00100	0.000316	mg/L		05/09/22 13:09	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		05/09/22 13:09	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		05/09/22 13:09	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		05/09/22 13:09	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		05/09/22 13:09	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		05/09/22 13:09	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		05/09/22 13:09	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		05/09/22 13:09	1
Ethylbenzene	0.0130		0.00100	0.000515	mg/L		05/09/22 13:09	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		05/09/22 13:09	1
Isopropylbenzene	0.00600		0.00100	0.000161	mg/L		05/09/22 13:09	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		05/09/22 13:09	1
m,p-Xylenes	0.0515		0.0100	0.000330	mg/L		05/09/22 13:09	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		05/09/22 13:09	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		05/09/22 13:09	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		05/09/22 13:09	1
N-Propylbenzene	0.00265		0.00100	0.000179	mg/L		05/09/22 13:09	1
o-Xylene	0.00761		0.00100	0.000192	mg/L		05/09/22 13:09	1
p-Cymene (p-Isopropyltoluene)	0.000709	J	0.00100	0.000233	mg/L		05/09/22 13:09	1
sec-Butylbenzene	0.00117		0.00100	0.000199	mg/L		05/09/22 13:09	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		05/09/22 13:09	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		05/09/22 13:09	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		05/09/22 13:09	1
1,1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		05/09/22 13:09	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		05/09/22 13:09	1
Toluene	0.0275		0.00100	0.000500	mg/L		05/09/22 13:09	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		05/09/22 13:09	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-14474-1

Date Collected: 05/05/22 12:08

Matrix: Water

Date Received: 05/06/22 08:24

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			05/09/22 13:09	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/09/22 13:09	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/09/22 13:09	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/09/22 13:09	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/09/22 13:09	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/09/22 13:09	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/09/22 13:09	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/09/22 13:09	1
1,2,4-Trimethylbenzene	0.0145		0.00100	0.000252 mg/L			05/09/22 13:09	1
1,3,5-Trimethylbenzene	0.00440		0.00100	0.000279 mg/L			05/09/22 13:09	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/09/22 13:09	1
Xylenes, Total	0.0591		0.0100	0.000330 mg/L			05/09/22 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		05/09/22 13:09	1
Dibromofluoromethane (Surr)	95		75 - 131		05/09/22 13:09	1
1,2-Dichloroethane-d4 (Surr)	82		63 - 144		05/09/22 13:09	1
Toluene-d8 (Surr)	100		80 - 117		05/09/22 13:09	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.352	J	0.500	0.0711 mg/L			05/12/22 12:39	1
Nitrate as N	0.737	J H	1.00	0.391 mg/L			05/07/22 16:55	10
Chloride	217		5.00	2.00 mg/L			05/07/22 16:55	10
Nitrite as N	1.93	H	1.00	0.293 mg/L			05/07/22 16:55	10
Fluoride	0.567		0.500	0.100 mg/L			05/12/22 12:39	1
Sulfate	41.8		5.00	1.09 mg/L			05/07/22 16:55	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	233		10.0	1.47 mg/L		05/09/22 10:15	05/22/22 17:52	50
Magnesium	49.1		0.200	0.0500 mg/L		05/09/22 10:15	05/22/22 17:41	1
Potassium	3.67		0.500	0.107 mg/L		05/09/22 10:15	05/22/22 17:41	1
Sodium	82.4		0.500	0.0667 mg/L		05/09/22 10:15	05/15/22 14:52	1
SiO2	61.7		1.07	0.0781 mg/L		05/09/22 10:15	05/22/22 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-7.39			%			05/16/22 09:55	1
Alkalinity	659		4.00	4.00 mg/L			05/09/22 12:19	1
Bicarbonate Alkalinity as CaCO3	659		4.00	4.00 mg/L			05/09/22 12:19	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/09/22 12:19	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			05/09/22 12:19	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			05/09/22 12:19	1
Total Dissolved Solids	1210		10.0	10.0 mg/L			05/09/22 13:32	1
pH	6.6	HF		SU			05/09/22 15:08	1
Temperature	19.9	HF		Degrees C			05/09/22 15:08	1

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Surrogate Summary

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

Job ID: 880-14474-1
SDG: Hobbs NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
880-14474-1	Levey Well	96	95	82	100
880-14475-E-1 MS	Matrix Spike	94	97	80	96
LCS 860-52114/3	Lab Control Sample	93	99	82	97
LCSD 860-52114/4	Lab Control Sample Dup	96	96	80	99
MB 860-52114/9	Method Blank	97	95	81	98
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-52114/9

Matrix: Water

Analysis Batch: 52114

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			05/09/22 11:27	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/09/22 11:27	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/09/22 11:27	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/09/22 11:27	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/09/22 11:27	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/09/22 11:27	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/09/22 11:27	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/09/22 11:27	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/09/22 11:27	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/09/22 11:27	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/09/22 11:27	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/09/22 11:27	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/09/22 11:27	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/09/22 11:27	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/09/22 11:27	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/09/22 11:27	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/09/22 11:27	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/09/22 11:27	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/09/22 11:27	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/09/22 11:27	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/09/22 11:27	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/09/22 11:27	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/09/22 11:27	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/09/22 11:27	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/09/22 11:27	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/09/22 11:27	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/09/22 11:27	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/09/22 11:27	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/09/22 11:27	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/09/22 11:27	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/09/22 11:27	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/09/22 11:27	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/09/22 11:27	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/09/22 11:27	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/09/22 11:27	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/09/22 11:27	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/09/22 11:27	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/09/22 11:27	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/09/22 11:27	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/09/22 11:27	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/09/22 11:27	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/09/22 11:27	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/09/22 11:27	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/09/22 11:27	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/09/22 11:27	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/09/22 11:27	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/09/22 11:27	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/09/22 11:27	1

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QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-52114/9

Matrix: Water

Analysis Batch: 52114

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		05/09/22 11:27	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		05/09/22 11:27	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		05/09/22 11:27	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		05/09/22 11:27	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		05/09/22 11:27	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		05/09/22 11:27	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		05/09/22 11:27	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		05/09/22 11:27	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		05/09/22 11:27	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L		05/09/22 11:27	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L		05/09/22 11:27	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		05/09/22 11:27	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L		05/09/22 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		05/09/22 11:27	1
Dibromofluoromethane (Surr)	95		75 - 131		05/09/22 11:27	1
1,2-Dichloroethane-d4 (Surr)	81		63 - 144		05/09/22 11:27	1
Toluene-d8 (Surr)	98		80 - 117		05/09/22 11:27	1

Lab Sample ID: LCS 860-52114/3

Matrix: Water

Analysis Batch: 52114

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	0.04981		mg/L		100	66 - 142
Bromobenzene	0.0500	0.04677		mg/L		94	75 - 125
Bromochloromethane	0.0500	0.04791		mg/L		96	60 - 140
Bromodichloromethane	0.0500	0.04072		mg/L		81	75 - 125
Bromoform	0.0500	0.04030		mg/L		81	75 - 125
Bromomethane	0.0500	0.04689		mg/L		94	60 - 140
2-Butanone	0.250	0.2279		mg/L		91	60 - 140
Carbon tetrachloride	0.0500	0.04190		mg/L		84	62 - 125
Chlorobenzene	0.0500	0.04968		mg/L		99	60 - 133
Chloroethane	0.0500	0.04982		mg/L		100	60 - 140
Chloroform	0.0500	0.04693		mg/L		94	70 - 130
Chloromethane	0.0500	0.04801		mg/L		96	60 - 140
2-Chlorotoluene	0.0500	0.04759		mg/L		95	73 - 125
4-Chlorotoluene	0.0500	0.04743		mg/L		95	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04128		mg/L		83	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04545		mg/L		91	74 - 125
Dibromochloromethane	0.0500	0.04548		mg/L		91	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04151		mg/L		83	59 - 125
1,2-Dibromoethane	0.0500	0.04766		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.05025		mg/L		100	75 - 125
1,3-Dichlorobenzene	0.0500	0.05059		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05121		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.06966	*+	mg/L		139	70 - 130

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QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-52114/3

Matrix: Water

Analysis Batch: 52114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04525		mg/L		90	72 - 125
1,2-Dichloroethane	0.0500	0.03737		mg/L		75	68 - 127
1,1-Dichloroethene	0.0500	0.05345		mg/L		107	59 - 172
1,2-Dichloropropane	0.0500	0.04646		mg/L		93	74 - 125
1,3-Dichloropropane	0.0500	0.04644		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.04536		mg/L		91	75 - 125
1,1-Dichloropropene	0.0500	0.04855		mg/L		97	75 - 125
Ethylbenzene	0.0500	0.04806		mg/L		96	75 - 125
Hexachlorobutadiene	0.0500	0.04810		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.04544		mg/L		91	75 - 125
Methylene Chloride	0.0500	0.05217		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.04770		mg/L		95	75 - 125
MTBE	0.0500	0.04300		mg/L		86	65 - 135
Naphthalene	0.0500	0.04398		mg/L		88	70 - 130
n-Butylbenzene	0.0500	0.04599		mg/L		92	75 - 125
N-Propylbenzene	0.0500	0.04897		mg/L		98	75 - 125
o-Xylene	0.0500	0.04725		mg/L		95	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04546		mg/L		91	75 - 125
sec-Butylbenzene	0.0500	0.04638		mg/L		93	75 - 125
Styrene	0.0500	0.04800		mg/L		96	75 - 125
tert-Butylbenzene	0.0500	0.04485		mg/L		90	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04651		mg/L		93	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04683		mg/L		94	74 - 125
Tetrachloroethene	0.0500	0.04970		mg/L		99	71 - 125
Toluene	0.0500	0.04876		mg/L		98	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05024		mg/L		100	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04036		mg/L		81	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04480		mg/L		90	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04664		mg/L		93	75 - 135
1,1,1-Trichloroethane	0.0500	0.04439		mg/L		89	75 - 125
1,1,2-Trichloroethane	0.0500	0.04898		mg/L		98	75 - 127
Trichloroethene	0.0500	0.04879		mg/L		98	62 - 137
Trichlorofluoromethane	0.0500	0.05240		mg/L		105	60 - 140
1,2,3-Trichloropropane	0.0500	0.04355		mg/L		87	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04517		mg/L		90	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04801		mg/L		96	60 - 140
Vinyl chloride	0.0500	0.05517		mg/L		110	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	82		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-52114/4

Matrix: Water

Analysis Batch: 52114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	0.0500	0.05019		mg/L		100	66 - 142	1	25
Bromobenzene	0.0500	0.04883		mg/L		98	75 - 125	4	25
Bromochloromethane	0.0500	0.04861		mg/L		97	60 - 140	1	25
Bromodichloromethane	0.0500	0.04140		mg/L		83	75 - 125	2	25
Bromoform	0.0500	0.04178		mg/L		84	75 - 125	4	25
Bromomethane	0.0500	0.04706		mg/L		94	60 - 140	0	25
2-Butanone	0.250	0.2236		mg/L		89	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04002		mg/L		80	62 - 125	5	25
Chlorobenzene	0.0500	0.05081		mg/L		102	60 - 133	2	25
Chloroethane	0.0500	0.04955		mg/L		99	60 - 140	1	25
Chloroform	0.0500	0.04699		mg/L		94	70 - 130	0	25
Chloromethane	0.0500	0.04708		mg/L		94	60 - 140	2	25
2-Chlorotoluene	0.0500	0.04506		mg/L		90	73 - 125	5	25
4-Chlorotoluene	0.0500	0.04919		mg/L		98	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04130		mg/L		83	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.04661		mg/L		93	74 - 125	3	25
Dibromochloromethane	0.0500	0.04715		mg/L		94	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04331		mg/L		87	59 - 125	4	25
1,2-Dibromoethane	0.0500	0.05011		mg/L		100	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.05271		mg/L		105	75 - 125	5	25
1,3-Dichlorobenzene	0.0500	0.05244		mg/L		105	75 - 125	4	25
1,4-Dichlorobenzene	0.0500	0.05335		mg/L		107	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.06548	*+	mg/L		131	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.04488		mg/L		90	72 - 125	1	25
1,2-Dichloroethane	0.0500	0.03835		mg/L		77	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05118		mg/L		102	59 - 172	4	25
1,2-Dichloropropane	0.0500	0.04752		mg/L		95	74 - 125	2	25
1,3-Dichloropropane	0.0500	0.04895		mg/L		98	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.04387		mg/L		88	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04719		mg/L		94	75 - 125	3	25
Ethylbenzene	0.0500	0.04900		mg/L		98	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.04965		mg/L		99	75 - 125	3	25
Isopropylbenzene	0.0500	0.04627		mg/L		93	75 - 125	2	25
Methylene Chloride	0.0500	0.05262		mg/L		105	75 - 125	1	25
m,p-Xylenes	0.0500	0.04844		mg/L		97	75 - 125	2	25
MTBE	0.0500	0.04361		mg/L		87	65 - 135	1	25
Naphthalene	0.0500	0.04495		mg/L		90	70 - 130	2	25
n-Butylbenzene	0.0500	0.04750		mg/L		95	75 - 125	3	25
N-Propylbenzene	0.0500	0.04989		mg/L		100	75 - 125	2	25
o-Xylene	0.0500	0.04873		mg/L		97	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04700		mg/L		94	75 - 125	3	25
sec-Butylbenzene	0.0500	0.04809		mg/L		96	75 - 125	4	25
Styrene	0.0500	0.04954		mg/L		99	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04682		mg/L		94	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.04766		mg/L		95	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.04905		mg/L		98	74 - 125	5	25
Tetrachloroethene	0.0500	0.04863		mg/L		97	71 - 125	2	25
Toluene	0.0500	0.04985		mg/L		100	59 - 139	2	25

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QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-52114/4

Matrix: Water

Analysis Batch: 52114

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	0.05015		mg/L		100	75 - 125	0	25
trans-1,3-Dichloropropene	0.0500	0.04260		mg/L		85	66 - 125	5	25
1,2,3-Trichlorobenzene	0.0500	0.04643		mg/L		93	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.04810		mg/L		96	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.04359		mg/L		87	75 - 125	2	25
1,1,2-Trichloroethane	0.0500	0.05065		mg/L		101	75 - 127	3	25
Trichloroethene	0.0500	0.04805		mg/L		96	62 - 137	2	25
Trichlorofluoromethane	0.0500	0.05006		mg/L		100	60 - 140	5	25
1,2,3-Trichloropropane	0.0500	0.04344		mg/L		87	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.04672		mg/L		93	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05011		mg/L		100	60 - 140	4	25
Vinyl chloride	0.0500	0.05306		mg/L		106	60 - 140	4	25

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-52079/3

Matrix: Water

Analysis Batch: 52079

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			05/07/22 15:18	1
Chloride	<0.200	U	0.500	0.200 mg/L			05/07/22 15:18	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/07/22 15:18	1
Sulfate	<0.109	U	0.500	0.109 mg/L			05/07/22 15:18	1

Lab Sample ID: LCS 860-52079/6

Matrix: Water

Analysis Batch: 52079

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	9.244		mg/L		92	90 - 110
Chloride	10.0	9.850		mg/L		99	90 - 110
Fluoride	10.0	10.62		mg/L		106	90 - 110
Sulfate	10.0	9.707		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-52079/7

Matrix: Water

Analysis Batch: 52079

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	9.260		mg/L		93	90 - 110	0	20
Chloride	10.0	9.783		mg/L		98	90 - 110	1	20
Fluoride	10.0	10.64		mg/L		106	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-52079/7

Matrix: Water

Analysis Batch: 52079

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	9.728		mg/L		97	90 - 110	0	20

Lab Sample ID: LLCS 860-52079/5

Matrix: Water

Analysis Batch: 52079

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	0.5975		mg/L		119	50 - 150		
Chloride	0.500	0.5230		mg/L		105	50 - 150		
Fluoride	0.500	0.4955	J	mg/L		99	50 - 150		
Sulfate	0.500	0.4656	J	mg/L		93	50 - 150		

Lab Sample ID: MB 860-52080/3

Matrix: Water

Analysis Batch: 52080

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			05/07/22 15:18	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/07/22 15:18	1

Lab Sample ID: LCS 860-52080/6

Matrix: Water

Analysis Batch: 52080

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	9.570		mg/L		96	80 - 120		
Nitrite as N	5.00	5.353		mg/L		107	80 - 120		

Lab Sample ID: LCSD 860-52080/7

Matrix: Water

Analysis Batch: 52080

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	9.581		mg/L		96	80 - 120	0	20
Nitrite as N	5.00	5.369		mg/L		107	80 - 120	0	20

Lab Sample ID: LLCS 860-52080/4

Matrix: Water

Analysis Batch: 52080

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	0.1376		mg/L		138	50 - 150		
Nitrite as N	0.100	0.1273		mg/L		127	50 - 150		

Lab Sample ID: MB 860-52619/3

Matrix: Water

Analysis Batch: 52619

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			05/11/22 15:21	1

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QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-52619/3

Matrix: Water

Analysis Batch: 52619

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			05/11/22 15:21	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/11/22 15:21	1
Sulfate	<0.109	U	0.500	0.109 mg/L			05/11/22 15:21	1

Lab Sample ID: MB 860-52619/72

Matrix: Water

Analysis Batch: 52619

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			05/12/22 06:30	1
Chloride	<0.200	U	0.500	0.200 mg/L			05/12/22 06:30	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/12/22 06:30	1
Sulfate	<0.109	U	0.500	0.109 mg/L			05/12/22 06:30	1

Lab Sample ID: LCS 860-52619/73

Matrix: Water

Analysis Batch: 52619

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	9.314		mg/L		93	90 - 110
Chloride	10.0	9.720		mg/L		97	90 - 110
Fluoride	10.0	10.28		mg/L		103	90 - 110
Sulfate	10.0	9.362		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-52619/74

Matrix: Water

Analysis Batch: 52619

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	9.325		mg/L		93	90 - 110	0	20
Chloride	10.0	9.698		mg/L		97	90 - 110	0	20
Fluoride	10.0	10.25		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.374		mg/L		94	90 - 110	0	20

Lab Sample ID: LLCS 860-52619/5

Matrix: Water

Analysis Batch: 52619

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	0.4235	J	mg/L		85	50 - 150
Chloride	0.500	0.5261		mg/L		105	50 - 150
Fluoride	0.500	0.5359		mg/L		107	50 - 150
Sulfate	0.500	0.4238	J	mg/L		85	50 - 150

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QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-52083/8-B

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		05/09/22 10:15	05/15/22 15:35	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		05/09/22 10:15	05/15/22 15:35	1
Potassium	<0.107	U	0.500	0.107 mg/L		05/09/22 10:15	05/15/22 15:35	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		05/09/22 10:15	05/15/22 15:35	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		05/09/22 10:15	05/15/22 15:35	1

Lab Sample ID: MB 860-52152/1-A

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		05/09/22 10:15	05/15/22 14:37	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		05/09/22 10:15	05/15/22 14:37	1
Potassium	<0.107	U	0.500	0.107 mg/L		05/09/22 10:15	05/15/22 14:37	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		05/09/22 10:15	05/15/22 14:37	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		05/09/22 10:15	05/15/22 14:37	1

Lab Sample ID: MB 860-52152/1-A

Matrix: Water

Analysis Batch: 53969

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		05/09/22 10:15	05/22/22 17:30	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		05/09/22 10:15	05/22/22 17:30	1
Potassium	<0.107	U	0.500	0.107 mg/L		05/09/22 10:15	05/22/22 17:30	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		05/09/22 10:15	05/22/22 17:30	1

Lab Sample ID: LCS 860-52083/9-B

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	25.0	28.62		mg/L		114	85 - 115

Lab Sample ID: LCS 860-52152/2-A

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	10.0	11.52		mg/L		115	85 - 115
Sodium	25.0	28.05		mg/L		112	85 - 115

Lab Sample ID: LCS 860-52152/2-A

Matrix: Water

Analysis Batch: 53969

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.17		mg/L		97	85 - 115
Magnesium	25.0	24.14		mg/L		97	85 - 115
Potassium	10.0	9.624		mg/L		96	85 - 115

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QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-52152/2-A

Matrix: Water

Analysis Batch: 53969

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
SiO2	21.4	20.38		mg/L		95	85 - 115

Lab Sample ID: LCSD 860-52083/10-B

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	25.0	28.79		mg/L		115	85 - 115	1	20

Lab Sample ID: LCSD 860-52152/3-A

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	25.0	28.18		mg/L		113	85 - 115	0	20

Lab Sample ID: LCSD 860-52152/3-A

Matrix: Water

Analysis Batch: 53969

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	23.94		mg/L		96	85 - 115	1	20
Magnesium	25.0	23.96		mg/L		96	85 - 115	1	20
Potassium	10.0	9.583		mg/L		96	85 - 115	0	20
SiO2	21.4	20.18		mg/L		94	85 - 115	1	20

Lab Sample ID: LLCS 860-52152/4-A

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2723		mg/L		136	50 - 150
Magnesium	0.200	0.2358		mg/L		118	50 - 150
Potassium	0.500	0.5712		mg/L		114	50 - 150
Sodium	0.500	0.6374		mg/L		127	50 - 150
SiO2	1.07	1.411		mg/L		132	50 - 150

Lab Sample ID: LLCS 860-52152/4-A

Matrix: Water

Analysis Batch: 53969

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	0.500	0.3845	J	mg/L		77	50 - 150

Lab Sample ID: 880-14474-1 MS

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	4.20	++	10.0	16.70		mg/L		125	70 - 130

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QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

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

Lab Sample ID: 880-14474-1 MS

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	82.4		25.0	114.7		mg/L		129	70 - 130
SiO2	72.8	*+ F1	21.4	102.5	F1	mg/L		138	70 - 130

Lab Sample ID: 880-14474-1 MS

Matrix: Water

Analysis Batch: 53969

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	238	E	25.0	273.9	E 4	mg/L		145	70 - 130
Magnesium	49.1		25.0	77.18		mg/L		112	70 - 130
Potassium	3.67		10.0	14.53		mg/L		109	70 - 130
SiO2	61.7		21.4	87.09		mg/L		119	70 - 130

Lab Sample ID: 880-14474-1 MSD

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	4.20	*+	10.0	16.81		mg/L		126	70 - 130	1	20
Sodium	82.4		25.0	114.9		mg/L		130	70 - 130	0	20

Lab Sample ID: 880-14474-1 MSD

Matrix: Water

Analysis Batch: 53969

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 52152

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	238	E	25.0	269.0	E 4	mg/L		126	70 - 130	2	20
Magnesium	49.1		25.0	76.03		mg/L		108	70 - 130	2	20
Potassium	3.67		10.0	14.41		mg/L		107	70 - 130	1	20
Sodium	73.3		25.0	100.5		mg/L		109	70 - 130	2	20
SiO2	61.7		21.4	85.37		mg/L		111	70 - 130	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-52271/4

Matrix: Water

Analysis Batch: 52271

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			05/09/22 11:49	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/09/22 11:49	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/09/22 11:49	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			05/09/22 11:49	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			05/09/22 11:49	1

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QC Sample Results

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

Job ID: 880-14474-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 860-52271/5

Matrix: Water

Analysis Batch: 52271

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	251.1		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-52271/6

Matrix: Water

Analysis Batch: 52271

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	252.2		mg/L		101	85 - 115	0	20

Lab Sample ID: 880-14474-1 DU

Matrix: Water

Analysis Batch: 52271

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	659		679.3		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	659		679.3		mg/L		3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-52212/1

Matrix: Water

Analysis Batch: 52212

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			05/09/22 13:32	1

Lab Sample ID: LCS 860-52212/2

Matrix: Water

Analysis Batch: 52212

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	1020		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-52212/3

Matrix: Water

Analysis Batch: 52212

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	1042		mg/L		104	80 - 120	2	10

Lab Sample ID: 880-14474-1 DU

Matrix: Water

Analysis Batch: 52212

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	1210		1228		mg/L		2	10

Eurofins Midland

QC Association Summary

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

Job ID: 880-14474-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 52114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total/NA	Water	8260C	
MB 860-52114/9	Method Blank	Total/NA	Water	8260C	
LCS 860-52114/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-52114/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 52079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total/NA	Water	300.0	
MB 860-52079/3	Method Blank	Total/NA	Water	300.0	
LCS 860-52079/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-52079/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-52079/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 52080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total/NA	Water	300.0	
MB 860-52080/3	Method Blank	Total/NA	Water	300.0	
LCS 860-52080/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-52080/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-52080/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 52619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total/NA	Water	300.0	
MB 860-52619/3	Method Blank	Total/NA	Water	300.0	
MB 860-52619/72	Method Blank	Total/NA	Water	300.0	
LCS 860-52619/73	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-52619/74	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-52619/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Filtration Batch: 52083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-52083/8-B	Method Blank	Total Recoverable	Water	Filtration	
LCS 860-52083/9-B	Lab Control Sample	Total Recoverable	Water	Filtration	
LCSD 860-52083/10-B	Lab Control Sample Dup	Total Recoverable	Water	Filtration	

Prep Batch: 52152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-52083/8-B	Method Blank	Total Recoverable	Water	200.7	52083
MB 860-52152/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-52083/9-B	Lab Control Sample	Total Recoverable	Water	200.7	52083
LCS 860-52152/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-52083/10-B	Lab Control Sample Dup	Total Recoverable	Water	200.7	52083
LCSD 860-52152/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-52152/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-14474-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-14474-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Eurofins Midland

QC Association Summary

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

Job ID: 880-14474-1
SDG: Hobbs NM

Metals

Analysis Batch: 53075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52152
MB 860-52083/8-B	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	52152
MB 860-52152/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	52152
LCS 860-52083/9-B	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	52152
LCS 860-52152/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	52152
LCSD 860-52083/10-B	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	52152
LCSD 860-52152/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	52152
LLCS 860-52152/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	52152
880-14474-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52152
880-14474-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52152

Analysis Batch: 53969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52152
880-14474-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52152
MB 860-52152/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	52152
LCS 860-52152/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	52152
LCSD 860-52152/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	52152
LLCS 860-52152/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	52152
880-14474-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52152
880-14474-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52152

General Chemistry

Analysis Batch: 52212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-52212/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-52212/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-52212/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-14474-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 52240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 52271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-52271/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-52271/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-52271/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-14474-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 53087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14474-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-14474-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-14474-1

Date Collected: 05/05/22 12:08

Matrix: Water

Date Received: 05/06/22 08:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	52114	05/09/22 13:09	TTD	XEN STF
Total/NA	Analysis	300.0		10	52079	05/07/22 16:55	ANP	XEN STF
Total/NA	Analysis	300.0		10	52080	05/07/22 16:55	ANP	XEN STF
Total/NA	Analysis	300.0		1	52619	05/12/22 12:39	WP	XEN STF
Total Recoverable	Prep	200.7			52152	05/09/22 10:15	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	53075	05/15/22 14:52	AV	XEN STF
Total Recoverable	Prep	200.7			52152	05/09/22 10:15	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	53969	05/22/22 17:41	DP	XEN STF
Total Recoverable	Prep	200.7			52152	05/09/22 10:15	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	53969	05/22/22 17:52	DP	XEN STF
Total/NA	Analysis	SM 1030E		1	53087	05/16/22 09:55	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	52271	05/09/22 12:19	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	52212	05/09/22 13:32	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	52240	05/09/22 15:08	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 Hobbs, NM - 03B1417001

Job ID: 880-14474-1
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
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: 880-14474-1
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: 880-14474-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14474-1	Levey Well	Water	05/05/22 12:08	05/06/22 08:24

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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

Chain of Custody

Work Order No:

14474

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

Project Manager:	Beaux Jennings	Bill to (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marnefield Street, Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjenning@ensolum.com

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

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

SAMPLE RECEIPT	Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	46.49		Thermometer ID	
Received In tact:	Yes ☒ No ☐		Correction Factor:	
Cooler Custody Seals:	Yes ☒ No ☐		Total Containers:	
Sample Custody Seals:	Yes ☒ No ☐			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
Levey Well	W	5-5-22	1208	-

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



880-14474 Chain of Custody

CUSTODY SEAL

Date 5-6-22

Signature

Thermo SCIENTIFIC

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	
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

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
		5/6/22			
		8:24			

Eurofins Midland
1214 W Florida Ave

Temp. 2.0 IR ID-HOU-323

Midland, TX 79701
Phone: 432-704-5440

C/F: -0.9
Corrected Temp. } -

Chain of Custody Record

000-144/4 Chain of Custody

fins

Environmental Testing America

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14474-1

SDG Number: Hobbs NM

Login Number: 14474

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: 880-14474-1

SDG Number: Hobbs NM

Login Number: 14474

List Number: 2

Creator: Torres, Sandra

List Source: Eurofins Houston

List Creation: 05/07/22 12:22 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	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-14475-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
5/12/2022 4:18:41 PM

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

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

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

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

Laboratory Job ID: 880-14475-1

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Definitions/Glossary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-14475-1

Qualifiers

GC/MS VOA

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

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

General Chemistry

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

Glossary

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

Definitions/Glossary

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

Job ID: 880-14475-1

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-14475-1

Job ID: 880-14475-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-14475-1

Receipt

The samples were received on 5/6/2022 8:24 AM. 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 4.4°C

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-52114 recovered outside control limits for the following analytes: Dichloro difluoromethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

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 (880-14475-2). Note: pH 5.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFMS: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-1 (880-14475-1).

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

General Chemistry

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

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Client Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-14475-1

Date Collected: 05/05/22 13:05

Matrix: Water

Date Received: 05/06/22 08:24

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			05/09/22 12:08	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/09/22 12:08	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/09/22 12:08	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/09/22 12:08	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/09/22 12:08	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/09/22 12:08	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/09/22 12:08	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/09/22 12:08	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/09/22 12:08	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/09/22 12:08	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/09/22 12:08	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/09/22 12:08	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/09/22 12:08	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/09/22 12:08	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/09/22 12:08	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/09/22 12:08	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/09/22 12:08	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/09/22 12:08	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/09/22 12:08	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/09/22 12:08	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/09/22 12:08	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/09/22 12:08	1
Dichlorodifluoromethane	<0.000316	U **	0.00100	0.000316 mg/L			05/09/22 12:08	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/09/22 12:08	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/09/22 12:08	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/09/22 12:08	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/09/22 12:08	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/09/22 12:08	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/09/22 12:08	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/09/22 12:08	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/09/22 12:08	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/09/22 12:08	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/09/22 12:08	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/09/22 12:08	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/09/22 12:08	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/09/22 12:08	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/09/22 12:08	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/09/22 12:08	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/09/22 12:08	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/09/22 12:08	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/09/22 12:08	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/09/22 12:08	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/09/22 12:08	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/09/22 12:08	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/09/22 12:08	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/09/22 12:08	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/09/22 12:08	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/09/22 12:08	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			05/09/22 12:08	1

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Client Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-14475-1

Date Collected: 05/05/22 13:05

Matrix: Water

Date Received: 05/06/22 08:24

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			05/09/22 12:08	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/09/22 12:08	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/09/22 12:08	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/09/22 12:08	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/09/22 12:08	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/09/22 12:08	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/09/22 12:08	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/09/22 12:08	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			05/09/22 12:08	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			05/09/22 12:08	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/09/22 12:08	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			05/09/22 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 124		05/09/22 12:08	1
Dibromofluoromethane (Surr)	94		75 - 131		05/09/22 12:08	1
1,2-Dichloroethane-d4 (Surr)	83		63 - 144		05/09/22 12:08	1
Toluene-d8 (Surr)	99		80 - 117		05/09/22 12:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.912	U	4.62	0.912 mg/L			05/02/22 15:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.912	U	4.62	0.912 mg/L		05/09/22 12:35	05/10/22 01:05	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912 mg/L		05/09/22 12:35	05/10/22 01:05	1
Oil Range Organics (Over C28-C36)	<0.880	U	4.62	0.880 mg/L		05/09/22 12:35	05/10/22 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 135	05/09/22 12:35	05/10/22 01:05	1
o-Terphenyl	100		70 - 135	05/09/22 12:35	05/10/22 01:05	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		0.500	0.200 mg/L			05/07/22 14:14	1
Nitrate as N	<0.0391	U H	0.100	0.0391 mg/L			05/07/22 14:14	1
Fluoride	0.746		0.500	0.100 mg/L			05/07/22 14:14	1
Nitrite as N	1.75	H	0.100	0.0293 mg/L			05/07/22 14:14	1
Sulfate	41.1		0.500	0.109 mg/L			05/07/22 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	253		4.00	4.00 mg/L			05/09/22 12:39	1
Bicarbonate Alkalinity as CaCO3	253		4.00	4.00 mg/L			05/09/22 12:39	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/09/22 12:39	1
Carbon dioxide	254			mg/L			05/10/22 11:37	1
Carbon Dioxide, Free	31.8			mg/L			05/10/22 11:37	1
pH	7.2	HF		SU			05/09/22 15:11	1

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Client Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-14475-1

Date Collected: 05/05/22 13:05

Matrix: Water

Date Received: 05/06/22 08:24

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	19.5	HF		Degrees C			05/09/22 15:11	1
Sulfide	<0.495	U	5.00	0.495 mg/L			05/09/22 21:13	1

Client Sample ID: MW-2

Lab Sample ID: 880-14475-2

Date Collected: 05/05/22 14:25

Matrix: Water

Date Received: 05/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0181		0.00100	0.000214 mg/L			05/09/22 12:28	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/09/22 12:28	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/09/22 12:28	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/09/22 12:28	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/09/22 12:28	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/09/22 12:28	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/09/22 12:28	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/09/22 12:28	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/09/22 12:28	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/09/22 12:28	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/09/22 12:28	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/09/22 12:28	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/09/22 12:28	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/09/22 12:28	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/09/22 12:28	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/09/22 12:28	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/09/22 12:28	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/09/22 12:28	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/09/22 12:28	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/09/22 12:28	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/09/22 12:28	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/09/22 12:28	1
Dichlorodifluoromethane	<0.000316	U *	0.00100	0.000316 mg/L			05/09/22 12:28	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/09/22 12:28	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/09/22 12:28	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/09/22 12:28	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/09/22 12:28	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/09/22 12:28	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/09/22 12:28	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/09/22 12:28	1
Ethylbenzene	0.0172		0.00100	0.000515 mg/L			05/09/22 12:28	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/09/22 12:28	1
Isopropylbenzene	0.00608		0.00100	0.000161 mg/L			05/09/22 12:28	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/09/22 12:28	1
m,p-Xylenes	0.110		0.0100	0.000330 mg/L			05/09/22 12:28	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/09/22 12:28	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/09/22 12:28	1
n-Butylbenzene	0.000629	J	0.00100	0.000286 mg/L			05/09/22 12:28	1
N-Propylbenzene	0.00123		0.00100	0.000179 mg/L			05/09/22 12:28	1
o-Xylene	0.00988		0.00100	0.000192 mg/L			05/09/22 12:28	1
p-Cymene (p-Isopropyltoluene)	0.000733	J	0.00100	0.000233 mg/L			05/09/22 12:28	1

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Client Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-14475-2

Date Collected: 05/05/22 14:25

Matrix: Water

Date Received: 05/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.000796	J	0.00100	0.000199	mg/L		05/09/22 12:28	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		05/09/22 12:28	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		05/09/22 12:28	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		05/09/22 12:28	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		05/09/22 12:28	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		05/09/22 12:28	1
Toluene	0.00219		0.00100	0.000500	mg/L		05/09/22 12:28	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		05/09/22 12:28	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		05/09/22 12:28	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		05/09/22 12:28	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		05/09/22 12:28	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		05/09/22 12:28	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		05/09/22 12:28	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		05/09/22 12:28	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		05/09/22 12:28	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		05/09/22 12:28	1
1,2,4-Trimethylbenzene	0.0276		0.00100	0.000252	mg/L		05/09/22 12:28	1
1,3,5-Trimethylbenzene	0.00751		0.00100	0.000279	mg/L		05/09/22 12:28	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		05/09/22 12:28	1
Xylenes, Total	0.120		0.0100	0.000330	mg/L		05/09/22 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		74 - 124		05/09/22 12:28	1
Dibromofluoromethane (Surr)	95		75 - 131		05/09/22 12:28	1
1,2-Dichloroethane-d4 (Surr)	85		63 - 144		05/09/22 12:28	1
Toluene-d8 (Surr)	97		80 - 117		05/09/22 12:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.40	J	4.66	0.920	mg/L		05/02/22 15:19	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	1.40	J	4.66	0.920	mg/L	05/09/22 12:34	05/10/22 00:26	1
Diesel Range Organics (Over C10-C28)	<0.920	U	4.66	0.920	mg/L	05/09/22 12:34	05/10/22 00:26	1
Oil Range Organics (Over C28-C36)	<0.888	U	4.66	0.888	mg/L	05/09/22 12:34	05/10/22 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 135	05/09/22 12:34	05/10/22 00:26	1
o-Terphenyl	94		70 - 135	05/09/22 12:34	05/10/22 00:26	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		0.500	0.200	mg/L		05/07/22 15:01	1
Nitrate as N	0.586		0.100	0.0391	mg/L		05/07/22 15:01	1
Fluoride	0.229	J	0.500	0.100	mg/L		05/07/22 15:01	1
Nitrite as N	11.5		0.100	0.0293	mg/L		05/07/22 15:01	1
Sulfate	112		0.500	0.109	mg/L		05/07/22 15:01	1

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Client Sample Results

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

Job ID: 880-14475-1

Client Sample ID: MW-2
Date Collected: 05/05/22 14:25
Date Received: 05/06/22 08:24

Lab Sample ID: 880-14475-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1330		4.00	4.00	mg/L			05/09/22 12:56	1
Bicarbonate Alkalinity as CaCO3	1330		4.00	4.00	mg/L			05/09/22 12:56	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/09/22 12:56	1
Carbon dioxide	2500				mg/L			05/10/22 11:37	1
Carbon Dioxide, Free	1330				mg/L			05/10/22 11:37	1
pH	6.3	HF			SU			05/09/22 15:12	1
Temperature	19.2	HF			Degrees C			05/09/22 15:12	1
Sulfide	0.600	J	5.00	0.495	mg/L			05/09/22 21:13	1

Surrogate Summary

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

Job ID: 880-14475-1

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
880-14475-1	MW-1	94	94	83	99
880-14475-1 MS	MW-1	94	97	80	96
880-14475-2	MW-2	91	95	85	97
LCS 860-52114/3	Lab Control Sample	93	99	82	97
LCSD 860-52114/4	Lab Control Sample Dup	96	96	80	99
MB 860-52114/9	Method Blank	97	95	81	98
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-14475-1	MW-1	86	100
880-14475-2	MW-2	80	94
880-14475-2 MS	MW-2	100	94
LCS 860-52204/2-A	Lab Control Sample	100	95
LCSD 860-52204/3-A	Lab Control Sample Dup	100	96
MB 860-52204/1-A	Method Blank	82	96
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-52114/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 52114

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			05/09/22 11:27	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/09/22 11:27	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/09/22 11:27	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/09/22 11:27	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/09/22 11:27	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/09/22 11:27	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/09/22 11:27	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/09/22 11:27	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/09/22 11:27	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/09/22 11:27	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/09/22 11:27	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/09/22 11:27	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/09/22 11:27	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/09/22 11:27	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/09/22 11:27	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/09/22 11:27	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/09/22 11:27	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/09/22 11:27	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/09/22 11:27	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/09/22 11:27	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/09/22 11:27	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/09/22 11:27	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/09/22 11:27	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/09/22 11:27	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/09/22 11:27	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/09/22 11:27	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/09/22 11:27	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/09/22 11:27	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/09/22 11:27	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/09/22 11:27	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/09/22 11:27	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/09/22 11:27	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/09/22 11:27	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/09/22 11:27	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/09/22 11:27	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/09/22 11:27	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/09/22 11:27	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/09/22 11:27	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/09/22 11:27	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/09/22 11:27	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/09/22 11:27	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/09/22 11:27	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/09/22 11:27	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/09/22 11:27	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/09/22 11:27	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/09/22 11:27	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/09/22 11:27	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/09/22 11:27	1

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QC Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-52114/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 52114

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		05/09/22 11:27	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		05/09/22 11:27	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		05/09/22 11:27	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		05/09/22 11:27	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		05/09/22 11:27	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		05/09/22 11:27	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		05/09/22 11:27	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		05/09/22 11:27	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		05/09/22 11:27	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L		05/09/22 11:27	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L		05/09/22 11:27	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		05/09/22 11:27	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L		05/09/22 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		05/09/22 11:27	1
Dibromofluoromethane (Surr)	95		75 - 131		05/09/22 11:27	1
1,2-Dichloroethane-d4 (Surr)	81		63 - 144		05/09/22 11:27	1
Toluene-d8 (Surr)	98		80 - 117		05/09/22 11:27	1

Lab Sample ID: LCS 860-52114/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 52114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04981		mg/L		100	66 - 142
Bromobenzene	0.0500	0.04677		mg/L		94	75 - 125
Bromochloromethane	0.0500	0.04791		mg/L		96	60 - 140
Bromodichloromethane	0.0500	0.04072		mg/L		81	75 - 125
Bromoform	0.0500	0.04030		mg/L		81	75 - 125
Bromomethane	0.0500	0.04689		mg/L		94	60 - 140
2-Butanone	0.250	0.2279		mg/L		91	60 - 140
Carbon tetrachloride	0.0500	0.04190		mg/L		84	62 - 125
Chlorobenzene	0.0500	0.04968		mg/L		99	60 - 133
Chloroethane	0.0500	0.04982		mg/L		100	60 - 140
Chloroform	0.0500	0.04693		mg/L		94	70 - 130
Chloromethane	0.0500	0.04801		mg/L		96	60 - 140
2-Chlorotoluene	0.0500	0.04759		mg/L		95	73 - 125
4-Chlorotoluene	0.0500	0.04743		mg/L		95	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04128		mg/L		83	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04545		mg/L		91	74 - 125
Dibromochloromethane	0.0500	0.04548		mg/L		91	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04151		mg/L		83	59 - 125
1,2-Dibromoethane	0.0500	0.04766		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.05025		mg/L		100	75 - 125
1,3-Dichlorobenzene	0.0500	0.05059		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05121		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.06966	*+	mg/L		139	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-52114/4

Matrix: Water

Analysis Batch: 52114

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	0.05019		mg/L		100	66 - 142	1	25
Bromobenzene	0.0500	0.04883		mg/L		98	75 - 125	4	25
Bromochloromethane	0.0500	0.04861		mg/L		97	60 - 140	1	25
Bromodichloromethane	0.0500	0.04140		mg/L		83	75 - 125	2	25
Bromoform	0.0500	0.04178		mg/L		84	75 - 125	4	25
Bromomethane	0.0500	0.04706		mg/L		94	60 - 140	0	25
2-Butanone	0.250	0.2236		mg/L		89	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04002		mg/L		80	62 - 125	5	25
Chlorobenzene	0.0500	0.05081		mg/L		102	60 - 133	2	25
Chloroethane	0.0500	0.04955		mg/L		99	60 - 140	1	25
Chloroform	0.0500	0.04699		mg/L		94	70 - 130	0	25
Chloromethane	0.0500	0.04708		mg/L		94	60 - 140	2	25
2-Chlorotoluene	0.0500	0.04506		mg/L		90	73 - 125	5	25
4-Chlorotoluene	0.0500	0.04919		mg/L		98	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04130		mg/L		83	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.04661		mg/L		93	74 - 125	3	25
Dibromochloromethane	0.0500	0.04715		mg/L		94	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04331		mg/L		87	59 - 125	4	25
1,2-Dibromoethane	0.0500	0.05011		mg/L		100	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.05271		mg/L		105	75 - 125	5	25
1,3-Dichlorobenzene	0.0500	0.05244		mg/L		105	75 - 125	4	25
1,4-Dichlorobenzene	0.0500	0.05335		mg/L		107	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.06548	*+	mg/L		131	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.04488		mg/L		90	72 - 125	1	25
1,2-Dichloroethane	0.0500	0.03835		mg/L		77	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05118		mg/L		102	59 - 172	4	25
1,2-Dichloropropane	0.0500	0.04752		mg/L		95	74 - 125	2	25
1,3-Dichloropropane	0.0500	0.04895		mg/L		98	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.04387		mg/L		88	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04719		mg/L		94	75 - 125	3	25
Ethylbenzene	0.0500	0.04900		mg/L		98	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.04965		mg/L		99	75 - 125	3	25
Isopropylbenzene	0.0500	0.04627		mg/L		93	75 - 125	2	25
Methylene Chloride	0.0500	0.05262		mg/L		105	75 - 125	1	25
m,p-Xylenes	0.0500	0.04844		mg/L		97	75 - 125	2	25
MTBE	0.0500	0.04361		mg/L		87	65 - 135	1	25
Naphthalene	0.0500	0.04495		mg/L		90	70 - 130	2	25
n-Butylbenzene	0.0500	0.04750		mg/L		95	75 - 125	3	25
N-Propylbenzene	0.0500	0.04989		mg/L		100	75 - 125	2	25
o-Xylene	0.0500	0.04873		mg/L		97	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04700		mg/L		94	75 - 125	3	25
sec-Butylbenzene	0.0500	0.04809		mg/L		96	75 - 125	4	25
Styrene	0.0500	0.04954		mg/L		99	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04682		mg/L		94	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.04766		mg/L		95	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.04905		mg/L		98	74 - 125	5	25
Tetrachloroethene	0.0500	0.04863		mg/L		97	71 - 125	2	25
Toluene	0.0500	0.04985		mg/L		100	59 - 139	2	25

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QC Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-52114/4

Matrix: Water

Analysis Batch: 52114

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	0.05015		mg/L		100	75 - 125	0	25
trans-1,3-Dichloropropene	0.0500	0.04260		mg/L		85	66 - 125	5	25
1,2,3-Trichlorobenzene	0.0500	0.04643		mg/L		93	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.04810		mg/L		96	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.04359		mg/L		87	75 - 125	2	25
1,1,2-Trichloroethane	0.0500	0.05065		mg/L		101	75 - 127	3	25
Trichloroethene	0.0500	0.04805		mg/L		96	62 - 137	2	25
Trichlorofluoromethane	0.0500	0.05006		mg/L		100	60 - 140	5	25
1,2,3-Trichloropropane	0.0500	0.04344		mg/L		87	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.04672		mg/L		93	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05011		mg/L		100	60 - 140	4	25
Vinyl chloride	0.0500	0.05306		mg/L		106	60 - 140	4	25

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

Lab Sample ID: 880-14475-1 MS

Matrix: Water

Analysis Batch: 52114

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
Benzene	<0.000214	U	0.0500	0.04741		mg/L		95	66 - 142
Bromobenzene	<0.000300	U	0.0500	0.04641		mg/L		93	75 - 125
Bromochloromethane	<0.000209	U	0.0500	0.04652		mg/L		93	60 - 140
Bromodichloromethane	<0.000231	U	0.0500	0.03931		mg/L		79	75 - 125
Bromoform	<0.000630	U	0.0500	0.03910		mg/L		78	75 - 125
Bromomethane	<0.00105	U	0.0500	0.04481		mg/L		90	60 - 140
2-Butanone	<0.00270	U	0.250	0.2213		mg/L		89	60 - 140
Carbon tetrachloride	<0.000423	U	0.0500	0.03989		mg/L		80	62 - 125
Chlorobenzene	<0.000159	U	0.0500	0.04794		mg/L		96	60 - 133
Chloroethane	<0.000433	U	0.0500	0.04713		mg/L		94	60 - 140
Chloroform	<0.000259	U	0.0500	0.04571		mg/L		91	70 - 130
Chloromethane	<0.000318	U	0.0500	0.04403		mg/L		88	60 - 140
2-Chlorotoluene	<0.000214	U	0.0500	0.04583		mg/L		92	73 - 125
4-Chlorotoluene	<0.000183	U	0.0500	0.04691		mg/L		94	74 - 125
cis-1,2-Dichloroethene	<0.000174	U	0.0500	0.04005		mg/L		80	75 - 125
cis-1,3-Dichloropropene	<0.000690	U	0.0500	0.04482		mg/L		90	74 - 125
Dibromochloromethane	<0.000739	U	0.0500	0.04449		mg/L		89	73 - 125
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.0500	0.04086		mg/L		82	59 - 125
1,2-Dibromoethane	<0.000337	U	0.0500	0.04688		mg/L		94	73 - 125
1,2-Dichlorobenzene	<0.000236	U	0.0500	0.05052		mg/L		101	75 - 125
1,3-Dichlorobenzene	<0.000197	U	0.0500	0.05048		mg/L		101	75 - 125
1,4-Dichlorobenzene	<0.000199	U	0.0500	0.05081		mg/L		102	75 - 125
Dichlorodifluoromethane	<0.000316	U **	0.0500	0.05981		mg/L		120	70 - 130
1,1-Dichloroethane	<0.000244	U	0.0500	0.04299		mg/L		86	72 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: 880-14475-1 MS

Client Sample ID: MW-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 52114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	<0.000285	U	0.0500	0.03682		mg/L		74	68 - 127
1,1-Dichloroethene	<0.000216	U	0.0500	0.05034		mg/L		101	59 - 172
1,2-Dichloropropane	<0.000396	U	0.0500	0.04541		mg/L		91	74 - 125
1,3-Dichloropropane	<0.000439	U	0.0500	0.04501		mg/L		90	75 - 125
2,2-Dichloropropane	<0.000360	U	0.0500	0.04299		mg/L		86	75 - 125
1,1-Dichloropropene	<0.000481	U	0.0500	0.04556		mg/L		91	75 - 125
Ethylbenzene	<0.000515	U	0.0500	0.04602		mg/L		92	75 - 125
Hexachlorobutadiene	<0.00200	U	0.0500	0.05118		mg/L		102	75 - 125
Isopropylbenzene	<0.000161	U	0.0500	0.04367		mg/L		87	75 - 125
Methylene Chloride	<0.00191	U	0.0500	0.04943		mg/L		99	75 - 125
m,p-Xylenes	<0.000330	U	0.0500	0.04632		mg/L		93	75 - 125
MTBE	<0.000571	U	0.0500	0.04163		mg/L		83	65 - 135
Naphthalene	<0.00200	U	0.0500	0.04350		mg/L		87	70 - 130
n-Butylbenzene	<0.000286	U	0.0500	0.04633		mg/L		93	75 - 125
N-Propylbenzene	<0.000179	U	0.0500	0.04743		mg/L		95	75 - 125
o-Xylene	<0.000192	U	0.0500	0.04589		mg/L		92	75 - 125
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.0500	0.04594		mg/L		92	75 - 125
sec-Butylbenzene	<0.000199	U	0.0500	0.04604		mg/L		92	75 - 125
Styrene	<0.000623	U	0.0500	0.04705		mg/L		94	75 - 125
tert-Butylbenzene	<0.000195	U	0.0500	0.04415		mg/L		88	75 - 125
1,1,1,2-Tetrachloroethane	<0.000327	U	0.0500	0.04500		mg/L		90	72 - 125
1,1,2,2-Tetrachloroethane	<0.000284	U	0.0500	0.04635		mg/L		93	74 - 125
Tetrachloroethene	<0.000500	U	0.0500	0.04703		mg/L		94	71 - 125
Toluene	<0.000500	U	0.0500	0.04747		mg/L		95	59 - 139
trans-1,2-Dichloroethene	<0.000256	U	0.0500	0.04762		mg/L		95	75 - 125
trans-1,3-Dichloropropene	<0.000752	U	0.0500	0.03947		mg/L		79	66 - 125
1,2,3-Trichlorobenzene	<0.00200	U	0.0500	0.04597		mg/L		92	75 - 137
1,2,4-Trichlorobenzene	<0.00200	U	0.0500	0.04883		mg/L		98	75 - 135
1,1,1-Trichloroethane	<0.000504	U	0.0500	0.04208		mg/L		84	75 - 125
1,1,2-Trichloroethane	<0.000228	U	0.0500	0.04808		mg/L		96	75 - 127
Trichloroethene	<0.000424	U	0.0500	0.04602		mg/L		92	62 - 137
Trichlorofluoromethane	<0.000245	U	0.0500	0.04803		mg/L		96	60 - 140
1,2,3-Trichloropropane	<0.000283	U	0.0500	0.04363		mg/L		87	75 - 125
1,2,4-Trimethylbenzene	<0.000252	U	0.0500	0.04484		mg/L		90	75 - 125
1,3,5-Trimethylbenzene	<0.000279	U	0.0500	0.04761		mg/L		95	70 - 125
Vinyl chloride	<0.000234	U	0.0500	0.04999		mg/L		100	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		74 - 124						
Dibromofluoromethane (Surr)	97		75 - 131						
1,2-Dichloroethane-d4 (Surr)	80		63 - 144						
Toluene-d8 (Surr)	96		80 - 117						

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QC Sample Results

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

Job ID: 880-14475-1

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

Lab Sample ID: MB 860-52204/1-A							Client Sample ID: Method Blank		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 52183							Prep Batch: 52204		
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		05/09/22 12:34	05/09/22 23:48	1	
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		05/09/22 12:34	05/09/22 23:48	1	
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		05/09/22 12:34	05/09/22 23:48	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	82		70 - 135			05/09/22 12:34	05/09/22 23:48	1	
o-Terphenyl	96		70 - 135			05/09/22 12:34	05/09/22 23:48	1	

Lab Sample ID: LCS 860-52204/2-A							Client Sample ID: Lab Control Sample		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 52183							Prep Batch: 52204		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	99.7	92.68		mg/L		93	70 - 135		
Diesel Range Organics (Over C10-C28)	99.9	96.17		mg/L		96	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	100		70 - 135						
o-Terphenyl	95		70 - 135						

Lab Sample ID: LCSD 860-52204/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 52183						Prep Batch: 52204					
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			99.7	95.75		mg/L		96	70 - 135	3	35
Diesel Range Organics (Over C10-C28)			99.9	99.34		mg/L		99	70 - 135	3	35
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 135								
o-Terphenyl	96		70 - 135								

Lab Sample ID: 880-14475-2 MS							Client Sample ID: MW-2		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 52183							Prep Batch: 52204		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1.40	J	90.6	90.81		mg/L		99	70 - 135
Diesel Range Organics (Over C10-C28)	<0.920	U	90.8	89.83		mg/L		99	70 - 135

QC Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: 880-14475-2 MS

Matrix: Water

Analysis Batch: 52183

Client Sample ID: MW-2

Prep Type: Total/NA

Prep Batch: 52204

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 135
o-Terphenyl	94		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-51836/3

Matrix: Water

Analysis Batch: 51836

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.200	U	0.500	0.200 mg/L			05/06/22 23:14	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			05/06/22 23:14	1	
Sulfate	<0.109	U	0.500	0.109 mg/L			05/06/22 23:14	1	

Lab Sample ID: MB 860-51836/43

Matrix: Water

Analysis Batch: 51836

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.200	U	0.500	0.200 mg/L			05/07/22 07:08	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			05/07/22 07:08	1	
Sulfate	<0.109	U	0.500	0.109 mg/L			05/07/22 07:08	1	

Lab Sample ID: MB 860-51836/76

Matrix: Water

Analysis Batch: 51836

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.200	U	0.500	0.200 mg/L			05/07/22 13:38	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			05/07/22 13:38	1	
Sulfate	<0.109	U	0.500	0.109 mg/L			05/07/22 13:38	1	

Lab Sample ID: LCS 860-51836/44

Matrix: Water

Analysis Batch: 51836

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	10.0	9.532		mg/L		95	90 - 110		
Fluoride	10.0	9.908		mg/L		99	90 - 110		
Sulfate	10.0	9.285		mg/L		93	90 - 110		

Lab Sample ID: LCS 860-51836/77

Matrix: Water

Analysis Batch: 51836

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	10.0	9.821		mg/L		98	90 - 110		
Fluoride	10.0	10.19		mg/L		102	90 - 110		
Sulfate	10.0	9.569		mg/L		96	90 - 110		

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QC Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-51836/45

Matrix: Water

Analysis Batch: 51836

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Chloride	10.0	9.503		mg/L		95	90 - 110		0	20
Fluoride	10.0	9.929		mg/L		99	90 - 110		0	20
Sulfate	10.0	9.260		mg/L		93	90 - 110		0	20

Lab Sample ID: LCSD 860-51836/78

Matrix: Water

Analysis Batch: 51836

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Chloride	10.0	9.773		mg/L		98	90 - 110		0	20
Fluoride	10.0	10.20		mg/L		102	90 - 110		0	20
Sulfate	10.0	9.583		mg/L		96	90 - 110		0	20

Lab Sample ID: LLCS 860-51836/5

Matrix: Water

Analysis Batch: 51836

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Chloride	0.500	0.5402		mg/L		108	50 - 150			
Fluoride	0.500	0.5117		mg/L		102	50 - 150			
Sulfate	0.500	0.4460	J	mg/L		89	50 - 150			

Lab Sample ID: MB 860-51837/3

Matrix: Water

Analysis Batch: 51837

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			05/06/22 23:14	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/06/22 23:14	1

Lab Sample ID: MB 860-51837/43

Matrix: Water

Analysis Batch: 51837

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			05/07/22 07:08	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/07/22 07:08	1

Lab Sample ID: MB 860-51837/76

Matrix: Water

Analysis Batch: 51837

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			05/07/22 13:38	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/07/22 13:38	1

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QC Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-51837/44

Matrix: Water

Analysis Batch: 51837

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	9.636		mg/L		96	80 - 120
Nitrite as N	5.00	4.857		mg/L		97	80 - 120

Lab Sample ID: LCS 860-51837/77

Matrix: Water

Analysis Batch: 51837

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	9.907		mg/L		99	80 - 120
Nitrite as N	5.00	5.013		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-51837/45

Matrix: Water

Analysis Batch: 51837

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	9.637		mg/L		96	80 - 120	0	20
Nitrite as N	5.00	4.849		mg/L		97	80 - 120	0	20

Lab Sample ID: LCSD 860-51837/78

Matrix: Water

Analysis Batch: 51837

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	9.921		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	5.017		mg/L		100	80 - 120	0	20

Lab Sample ID: LLCS 860-51837/4

Matrix: Water

Analysis Batch: 51837

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	0.1019		mg/L		102	50 - 150
Nitrite as N	0.100	0.1007		mg/L		101	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-52271/4

Matrix: Water

Analysis Batch: 52271

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			05/09/22 11:49	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/09/22 11:49	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/09/22 11:49	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 860-52271/5

Matrix: Water

Analysis Batch: 52271

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	251.1		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-52271/6

Matrix: Water

Analysis Batch: 52271

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	252.2		mg/L		101	85 - 115	0	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-52302/1

Matrix: Water

Analysis Batch: 52302

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			05/09/22 21:13	1

Lab Sample ID: LCS 860-52302/2

Matrix: Water

Analysis Batch: 52302

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	46.20		mg/L		92	80 - 120

Lab Sample ID: LCSD 860-52302/3

Matrix: Water

Analysis Batch: 52302

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	44.80		mg/L		90	80 - 120	3	20

Lab Sample ID: 880-14475-1 MS

Matrix: Water

Analysis Batch: 52302

Client Sample ID: MW-1

Prep Type: Total/NA

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

Lab Sample ID: 880-14475-1 MSD

Matrix: Water

Analysis Batch: 52302

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	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-14475-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 52114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	8260C	
880-14475-2	MW-2	Total/NA	Water	8260C	
MB 860-52114/9	Method Blank	Total/NA	Water	8260C	
LCS 860-52114/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-52114/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-14475-1 MS	MW-1	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 50664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	8015 NM	
880-14475-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 52183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	8015B NM	52204
880-14475-2	MW-2	Total/NA	Water	8015B NM	52204
MB 860-52204/1-A	Method Blank	Total/NA	Water	8015B NM	52204
LCS 860-52204/2-A	Lab Control Sample	Total/NA	Water	8015B NM	52204
LCSD 860-52204/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	52204
880-14475-2 MS	MW-2	Total/NA	Water	8015B NM	52204

Prep Batch: 52204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-14475-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-52204/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-52204/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-52204/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-14475-2 MS	MW-2	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 51836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	300.0	
880-14475-2	MW-2	Total/NA	Water	300.0	
MB 860-51836/3	Method Blank	Total/NA	Water	300.0	
MB 860-51836/43	Method Blank	Total/NA	Water	300.0	
MB 860-51836/76	Method Blank	Total/NA	Water	300.0	
LCS 860-51836/44	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-51836/77	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-51836/45	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-51836/78	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-51836/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 51837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	300.0	
880-14475-2	MW-2	Total/NA	Water	300.0	
MB 860-51837/3	Method Blank	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-14475-1

HPLC/IC (Continued)

Analysis Batch: 51837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-51837/43	Method Blank	Total/NA	Water	300.0	
MB 860-51837/76	Method Blank	Total/NA	Water	300.0	
LCS 860-51837/44	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-51837/77	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-51837/45	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-51837/78	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-51837/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 52240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-14475-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 52271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	SM 2320B	
880-14475-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-52271/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-52271/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-52271/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 52302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-14475-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-52302/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-52302/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-52302/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-14475-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-14475-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 52384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14475-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-14475-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-14475-1

Client Sample ID: MW-1

Date Collected: 05/05/22 13:05

Date Received: 05/06/22 08:24

Lab Sample ID: 880-14475-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	52114	05/09/22 12:08	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	50664	05/02/22 15:19	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			52204	05/09/22 12:35	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	52183	05/10/22 01:05	T1S	XEN STF
Total/NA	Analysis	300.0		1	51836	05/07/22 14:14	ANP	XEN STF
Total/NA	Analysis	300.0		1	51837	05/07/22 14:14	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	52271	05/09/22 12:39	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	52384	05/10/22 11:37	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	52240	05/09/22 15:11	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	52302	05/09/22 21:13	YGG	XEN STF

Client Sample ID: MW-2

Date Collected: 05/05/22 14:25

Date Received: 05/06/22 08:24

Lab Sample ID: 880-14475-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	52114	05/09/22 12:28	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	50664	05/02/22 15:19	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			52204	05/09/22 12:34	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	52183	05/10/22 00:26	T1S	XEN STF
Total/NA	Analysis	300.0		1	51836	05/07/22 15:01	ANP	XEN STF
Total/NA	Analysis	300.0		1	51837	05/07/22 15:01	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	52271	05/09/22 12:56	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	52384	05/10/22 11:37	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	52240	05/09/22 15:12	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	52302	05/09/22 21:13	YGG	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: South Hobbs - 03B1417002

Job ID: 880-14475-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

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

Job ID: 880-14475-1

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

Protocol References:

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

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-14475-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14475-1	MW-1	Water	05/05/22 13:05	05/06/22 08:24
880-14475-2	MW-2	Water	05/05/22 14:25	05/06/22 08:24

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Houston TX (281) 240-4200 Dallas TX (214) 802-0300 San Antonio, TX (210) 509-3334
Midland TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813) 251-1111
Dallas TX (972) 343-3333 San Diego CA (619) 594-4444
San Jose CA (408) 291-1111 Albuquerque NM (505) 242-2222
San Francisco CA (415) 774-4444

Chain of Custody

Work Order No. 14475

Project Manager: Beaux Jennings		Bill to: (if different)	
Company Name: Ensolum LLC		Company Name:	
Address: 601 N Marientfeld 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/PT ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other ☐	

Project Name:		South Hobbs		Turn Around		ANALYSIS REQUEST	Work Order Notes
Project Number:		03B1417002		Routine ☐			
P.O. Number:		03B1417002		Rush 24 Hr			
Sampler's Name:		Aaron Marquez		Due Date			
SAMPLE RECEIPT		Temp Blank:		Yes No ☒ ☐			
Temperature (°C):		44.4		Thermometer ID			
Received intact:		Yes No ☒ ☐					
Cooler Custody Seals:		Yes No ☒ ☐		Correction Factor:			
Sample Custody Seals:		Yes No ☒ ☐		Total Containers:			
Number of Containers							
Reduced Carbon Dioxide 4500 CO2 c							
Reduced Sulfide SW-846 #376.2							
SW-846 #8260							
A Method #8015							
EPA Method #846 300							
SW-846 Method 150.1							
TAT starts the day received by the lab, if received by 4 30pm							

[illegible]

880-14475 Chain of Custody



Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010		8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	
				1631 / 245.1 / 7470 / 7471 Hg	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		8/16/22	2		
3		8:24	4		
5			6		

Temp: 20.0
C/F: 68
Corrected Temp. 1.1

Chain of Custody Record

880-14475 Chain of Custody

880-14475 Chain of Custody

5. Environment Testing in America

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14475-1

Login Number: 14475

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: 880-14475-1

Login Number: 14475

List Number: 2

Creator: Torres, Sandra

List Source: Eurofins Houston

List Creation: 05/07/22 12:09 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	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-14638-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:

5/17/2022 4:14:56 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-14638-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-14638-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
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)

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-14638-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-14638-1
SDG: Hobbs NM

Job ID: 880-14638-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-14638-1**

Receipt

The sample was received on 5/10/2022 3:00 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 3.3°C

GC/MS VOA

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-52583 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike(MS) for analytical batch 860-52583 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_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-52543 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 200.7: Due to the high concentration of calcium and magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-52731 and analytical batch 860-53075 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: 880-14638-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-14638-1

Date Collected: 05/10/22 10:25

Matrix: Water

Date Received: 05/10/22 15:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00343		0.00100	0.000214	mg/L		05/12/22 07:16	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		05/12/22 07:16	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		05/12/22 07:16	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		05/12/22 07:16	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		05/12/22 07:16	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		05/12/22 07:16	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		05/12/22 07:16	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		05/12/22 07:16	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		05/12/22 07:16	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		05/12/22 07:16	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		05/12/22 07:16	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		05/12/22 07:16	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		05/12/22 07:16	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		05/12/22 07:16	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		05/12/22 07:16	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		05/12/22 07:16	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		05/12/22 07:16	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		05/12/22 07:16	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		05/12/22 07:16	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		05/12/22 07:16	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		05/12/22 07:16	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		05/12/22 07:16	1
Dichlorodifluoromethane	<0.000316	U *	0.00100	0.000316	mg/L		05/12/22 07:16	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		05/12/22 07:16	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		05/12/22 07:16	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		05/12/22 07:16	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		05/12/22 07:16	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		05/12/22 07:16	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		05/12/22 07:16	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		05/12/22 07:16	1
Ethylbenzene	0.0132		0.00100	0.000515	mg/L		05/12/22 07:16	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		05/12/22 07:16	1
Isopropylbenzene	0.00630		0.00100	0.000161	mg/L		05/12/22 07:16	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		05/12/22 07:16	1
m,p-Xylenes	0.0517		0.0100	0.000330	mg/L		05/12/22 07:16	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		05/12/22 07:16	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		05/12/22 07:16	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		05/12/22 07:16	1
N-Propylbenzene	0.00301		0.00100	0.000179	mg/L		05/12/22 07:16	1
o-Xylene	0.00821		0.00100	0.000192	mg/L		05/12/22 07:16	1
p-Cymene (p-Isopropyltoluene)	0.000652	J	0.00100	0.000233	mg/L		05/12/22 07:16	1
sec-Butylbenzene	0.00119		0.00100	0.000199	mg/L		05/12/22 07:16	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		05/12/22 07:16	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		05/12/22 07:16	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		05/12/22 07:16	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		05/12/22 07:16	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		05/12/22 07:16	1
Toluene	0.0282		0.00100	0.000500	mg/L		05/12/22 07:16	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		05/12/22 07:16	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-14638-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-14638-1

Date Collected: 05/10/22 10:25

Matrix: Water

Date Received: 05/10/22 15:00

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			05/12/22 07:16	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 07:16	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 07:16	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/12/22 07:16	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/12/22 07:16	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/12/22 07:16	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/12/22 07:16	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/12/22 07:16	1
1,2,4-Trimethylbenzene	0.0148		0.00100	0.000252 mg/L			05/12/22 07:16	1
1,3,5-Trimethylbenzene	0.00463		0.00100	0.000279 mg/L			05/12/22 07:16	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/12/22 07:16	1
Xylenes, Total	0.0599		0.0100	0.000330 mg/L			05/12/22 07:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		05/12/22 07:16	1
Dibromofluoromethane (Surr)	101		75 - 131		05/12/22 07:16	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		05/12/22 07:16	1
Toluene-d8 (Surr)	99		80 - 117		05/12/22 07:16	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.589		0.500	0.0711 mg/L			05/11/22 18:58	1
Nitrate as N	0.100		0.100	0.0391 mg/L			05/11/22 18:58	1
Chloride	219		0.500	0.200 mg/L			05/11/22 18:58	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/11/22 18:58	1
Fluoride	0.643		0.500	0.100 mg/L			05/11/22 18:58	1
Sulfate	44.6		0.500	0.109 mg/L			05/11/22 18:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	301		10.0	1.47 mg/L		05/12/22 11:00	05/15/22 17:16	50
Magnesium	61.6		0.200	0.0500 mg/L		05/12/22 11:00	05/15/22 16:33	1
Potassium	4.74		0.500	0.107 mg/L		05/12/22 11:00	05/15/22 16:33	1
Sodium	90.5		0.500	0.0667 mg/L		05/12/22 11:00	05/15/22 16:33	1
SiO2	80.6		1.07	0.0781 mg/L		05/12/22 11:00	05/15/22 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	2.74			%			05/17/22 15:14	1
Alkalinity	652		4.00	4.00 mg/L			05/12/22 12:37	1
Bicarbonate Alkalinity as CaCO3	652		4.00	4.00 mg/L			05/12/22 12:37	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/12/22 12:37	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			05/12/22 12:37	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			05/12/22 12:37	1
Total Dissolved Solids	1080		10.0	10.0 mg/L			05/12/22 14:38	1
pH	6.4	HF		SU			05/12/22 14:41	1
Temperature	16.9	HF		Degrees C			05/12/22 14:41	1

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Surrogate Summary

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

Job ID: 880-14638-1
SDG: Hobbs NM

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
880-14547-B-1 MS	Matrix Spike	100	101	103	98
880-14638-1	Levey Well	100	101	105	99
LCS 860-52583/3	Lab Control Sample	99	101	103	97
LCSD 860-52583/4	Lab Control Sample Dup	98	102	101	99
MB 860-52583/9	Method Blank	99	98	102	99

Surrogate Legend

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

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

QC Sample Results

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

Job ID: 880-14638-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-52583/9

Matrix: Water

Analysis Batch: 52583

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			05/12/22 00:50	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/12/22 00:50	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/12/22 00:50	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/12/22 00:50	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/12/22 00:50	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/12/22 00:50	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/12/22 00:50	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/12/22 00:50	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/12/22 00:50	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/12/22 00:50	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/12/22 00:50	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/12/22 00:50	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/12/22 00:50	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/12/22 00:50	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/12/22 00:50	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/12/22 00:50	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/12/22 00:50	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/12/22 00:50	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/12/22 00:50	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/12/22 00:50	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/12/22 00:50	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/12/22 00:50	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/12/22 00:50	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/12/22 00:50	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/12/22 00:50	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/12/22 00:50	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/12/22 00:50	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/12/22 00:50	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/12/22 00:50	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/12/22 00:50	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/12/22 00:50	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 00:50	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/12/22 00:50	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/12/22 00:50	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/12/22 00:50	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/12/22 00:50	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/12/22 00:50	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/12/22 00:50	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/12/22 00:50	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/12/22 00:50	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/12/22 00:50	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/12/22 00:50	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/12/22 00:50	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/12/22 00:50	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/12/22 00:50	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/12/22 00:50	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/12/22 00:50	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/12/22 00:50	1

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QC Sample Results

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

Job ID: 880-14638-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-52583/9

Matrix: Water

Analysis Batch: 52583

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			05/12/22 00:50	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			05/12/22 00:50	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 00:50	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 00:50	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/12/22 00:50	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/12/22 00:50	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/12/22 00:50	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/12/22 00:50	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/12/22 00:50	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			05/12/22 00:50	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			05/12/22 00:50	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/12/22 00:50	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			05/12/22 00:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		05/12/22 00:50	1
Dibromofluoromethane (Surr)	98		75 - 131		05/12/22 00:50	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/12/22 00:50	1
Toluene-d8 (Surr)	99		80 - 117		05/12/22 00:50	1

Lab Sample ID: LCS 860-52583/3

Matrix: Water

Analysis Batch: 52583

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	0.04834		mg/L		97	66 - 142
Bromobenzene	0.0500	0.04739		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.05129		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05182		mg/L		104	75 - 125
Bromoform	0.0500	0.05251		mg/L		105	75 - 125
Bromomethane	0.0500	0.04422		mg/L		88	60 - 140
2-Butanone	0.250	0.2494		mg/L		100	60 - 140
Carbon tetrachloride	0.0500	0.04985		mg/L		100	62 - 125
Chlorobenzene	0.0500	0.04782		mg/L		96	60 - 133
Chloroethane	0.0500	0.04834		mg/L		97	60 - 140
Chloroform	0.0500	0.05019		mg/L		100	70 - 130
Chloromethane	0.0500	0.04798		mg/L		96	60 - 140
2-Chlorotoluene	0.0500	0.04728		mg/L		95	73 - 125
4-Chlorotoluene	0.0500	0.04647		mg/L		93	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04839		mg/L		97	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04922		mg/L		98	74 - 125
Dibromochloromethane	0.0500	0.05191		mg/L		104	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05518		mg/L		110	59 - 125
1,2-Dibromoethane	0.0500	0.04800		mg/L		96	73 - 125
1,2-Dichlorobenzene	0.0500	0.04721		mg/L		94	75 - 125
1,3-Dichlorobenzene	0.0500	0.04750		mg/L		95	75 - 125
1,4-Dichlorobenzene	0.0500	0.04612		mg/L		92	75 - 125
Dichlorodifluoromethane	0.0500	0.03248	*-	mg/L		65	70 - 130

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QC Sample Results

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

Job ID: 880-14638-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-52583/3

Matrix: Water

Analysis Batch: 52583

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04910		mg/L		98	72 - 125
1,2-Dichloroethane	0.0500	0.05054		mg/L		101	68 - 127
1,1-Dichloroethene	0.0500	0.04610		mg/L		92	59 - 172
1,2-Dichloropropane	0.0500	0.04992		mg/L		100	74 - 125
1,3-Dichloropropane	0.0500	0.04831		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.04377		mg/L		88	75 - 125
1,1-Dichloropropene	0.0500	0.04763		mg/L		95	75 - 125
Ethylbenzene	0.0500	0.04774		mg/L		95	75 - 125
Hexachlorobutadiene	0.0500	0.04526		mg/L		91	75 - 125
Isopropylbenzene	0.0500	0.04750		mg/L		95	75 - 125
Methylene Chloride	0.0500	0.04868		mg/L		97	75 - 125
m,p-Xylenes	0.0500	0.04701		mg/L		94	75 - 125
MTBE	0.0500	0.05039		mg/L		101	65 - 135
Naphthalene	0.0500	0.05366		mg/L		107	70 - 130
n-Butylbenzene	0.0500	0.04524		mg/L		90	75 - 125
N-Propylbenzene	0.0500	0.04633		mg/L		93	75 - 125
o-Xylene	0.0500	0.04823		mg/L		96	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04623		mg/L		92	75 - 125
sec-Butylbenzene	0.0500	0.04642		mg/L		93	75 - 125
Styrene	0.0500	0.04837		mg/L		97	75 - 125
tert-Butylbenzene	0.0500	0.04682		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04999		mg/L		100	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04692		mg/L		94	74 - 125
Tetrachloroethene	0.0500	0.04661		mg/L		93	71 - 125
Toluene	0.0500	0.04764		mg/L		95	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04942		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04947		mg/L		99	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05076		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04923		mg/L		98	75 - 135
1,1,1-Trichloroethane	0.0500	0.04936		mg/L		99	75 - 125
1,1,2-Trichloroethane	0.0500	0.04875		mg/L		98	75 - 127
Trichloroethene	0.0500	0.04812		mg/L		96	62 - 137
Trichlorofluoromethane	0.0500	0.04451		mg/L		89	60 - 140
1,2,3-Trichloropropane	0.0500	0.04756		mg/L		95	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04745		mg/L		95	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04668		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04896		mg/L		98	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	97		80 - 117

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QC Sample Results

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

Job ID: 880-14638-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-52583/4

Matrix: Water

Analysis Batch: 52583

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	0.04876		mg/L		98	66 - 142	1	25
Bromobenzene	0.0500	0.04825		mg/L		96	75 - 125	2	25
Bromochloromethane	0.0500	0.04922		mg/L		98	60 - 140	4	25
Bromodichloromethane	0.0500	0.05060		mg/L		101	75 - 125	2	25
Bromoform	0.0500	0.05195		mg/L		104	75 - 125	1	25
Bromomethane	0.0500	0.04375		mg/L		87	60 - 140	1	25
2-Butanone	0.250	0.2353		mg/L		94	60 - 140	6	25
Carbon tetrachloride	0.0500	0.05074		mg/L		101	62 - 125	2	25
Chlorobenzene	0.0500	0.04877		mg/L		98	60 - 133	2	25
Chloroethane	0.0500	0.04731		mg/L		95	60 - 140	2	25
Chloroform	0.0500	0.04988		mg/L		100	70 - 130	1	25
Chloromethane	0.0500	0.04667		mg/L		93	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04774		mg/L		95	73 - 125	1	25
4-Chlorotoluene	0.0500	0.04669		mg/L		93	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04831		mg/L		97	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.04846		mg/L		97	74 - 125	2	25
Dibromochloromethane	0.0500	0.05215		mg/L		104	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05048		mg/L		101	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.04843		mg/L		97	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04698		mg/L		94	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.04752		mg/L		95	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.04686		mg/L		94	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.03201	*	mg/L		64	70 - 130	1	25
1,1-Dichloroethane	0.0500	0.04916		mg/L		98	72 - 125	0	25
1,2-Dichloroethane	0.0500	0.05015		mg/L		100	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.04743		mg/L		95	59 - 172	3	25
1,2-Dichloropropane	0.0500	0.04975		mg/L		100	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04806		mg/L		96	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04332		mg/L		87	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04718		mg/L		94	75 - 125	1	25
Ethylbenzene	0.0500	0.04822		mg/L		96	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.04632		mg/L		93	75 - 125	2	25
Isopropylbenzene	0.0500	0.04915		mg/L		98	75 - 125	3	25
Methylene Chloride	0.0500	0.04813		mg/L		96	75 - 125	1	25
m,p-Xylenes	0.0500	0.04794		mg/L		96	75 - 125	2	25
MTBE	0.0500	0.04944		mg/L		99	65 - 135	2	25
Naphthalene	0.0500	0.04920		mg/L		98	70 - 130	9	25
n-Butylbenzene	0.0500	0.04645		mg/L		93	75 - 125	3	25
N-Propylbenzene	0.0500	0.04691		mg/L		94	75 - 125	1	25
o-Xylene	0.0500	0.04880		mg/L		98	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04697		mg/L		94	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04746		mg/L		95	75 - 125	2	25
Styrene	0.0500	0.04915		mg/L		98	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04826		mg/L		97	75 - 125	3	25
1,1,1,2-Tetrachloroethane	0.0500	0.05121		mg/L		102	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.04565		mg/L		91	74 - 125	3	25
Tetrachloroethene	0.0500	0.04810		mg/L		96	71 - 125	3	25
Toluene	0.0500	0.04843		mg/L		97	59 - 139	2	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-14638-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-52583/4

Matrix: Water

Analysis Batch: 52583

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	0.04952		mg/L		99	75 - 125	0	25
trans-1,3-Dichloropropene	0.0500	0.04922		mg/L		98	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.04683		mg/L		94	75 - 137	8	25
1,2,4-Trichlorobenzene	0.0500	0.04693		mg/L		94	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.04971		mg/L		99	75 - 125	1	25
1,1,2-Trichloroethane	0.0500	0.04934		mg/L		99	75 - 127	1	25
Trichloroethene	0.0500	0.04901		mg/L		98	62 - 137	2	25
Trichlorofluoromethane	0.0500	0.04429		mg/L		89	60 - 140	0	25
1,2,3-Trichloropropane	0.0500	0.04646		mg/L		93	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04766		mg/L		95	75 - 125	0	25
1,3,5-Trimethylbenzene	0.0500	0.04760		mg/L		95	60 - 140	2	25
Vinyl chloride	0.0500	0.04883		mg/L		98	60 - 140	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-52542/3

Matrix: Water

Analysis Batch: 52542

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			05/11/22 09:52	1
Chloride	<0.200	U	0.500	0.200 mg/L			05/11/22 09:52	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/11/22 09:52	1
Sulfate	<0.109	U	0.500	0.109 mg/L			05/11/22 09:52	1

Lab Sample ID: LCS 860-52542/6

Matrix: Water

Analysis Batch: 52542

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	9.305		mg/L		93	90 - 110
Chloride	10.0	9.624		mg/L		96	90 - 110
Fluoride	10.0	10.25		mg/L		103	90 - 110
Sulfate	10.0	9.807		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-52542/7

Matrix: Water

Analysis Batch: 52542

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	9.342		mg/L		93	90 - 110	0	20
Chloride	10.0	9.701		mg/L		97	90 - 110	1	20
Fluoride	10.0	10.28		mg/L		103	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-14638-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-52542/7

Matrix: Water

Analysis Batch: 52542

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	9.847		mg/L		98	90 - 110	0	20

Lab Sample ID: MB 860-52543/3

Matrix: Water

Analysis Batch: 52543

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			05/11/22 09:52	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/11/22 09:52	1

Lab Sample ID: LCS 860-52543/6

Matrix: Water

Analysis Batch: 52543

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	9.368		mg/L		94	80 - 120
Nitrite as N	5.00	5.092		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-52543/7

Matrix: Water

Analysis Batch: 52543

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	9.405		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	5.130		mg/L		103	80 - 120	1	20

Lab Sample ID: LLCS 860-52543/4

Matrix: Water

Analysis Batch: 52543

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	0.1224		mg/L		122	50 - 150
Nitrite as N	0.100	0.1182		mg/L		118	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-52731/1-A

Matrix: Water

Analysis Batch: 53075

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 52731

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		05/12/22 11:00	05/15/22 16:19	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		05/12/22 11:00	05/15/22 16:19	1
Potassium	<0.107	U	0.500	0.107 mg/L		05/12/22 11:00	05/15/22 16:19	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		05/12/22 11:00	05/15/22 16:19	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		05/12/22 11:00	05/15/22 16:19	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-14638-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-52731/2-A
Matrix: Water
Analysis Batch: 53075

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 52731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	27.47		mg/L		110	85 - 115
Magnesium	25.0	27.22		mg/L		109	85 - 115
Potassium	10.0	10.91		mg/L		109	85 - 115
Sodium	25.0	26.67		mg/L		107	85 - 115
SiO2	21.4	23.82		mg/L		111	85 - 115

Lab Sample ID: LCSD 860-52731/3-A
Matrix: Water
Analysis Batch: 53075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 52731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	27.58		mg/L		110	85 - 115	0	20
Magnesium	25.0	27.32		mg/L		109	85 - 115	0	20
Potassium	10.0	10.91		mg/L		109	85 - 115	0	20
Sodium	25.0	26.76		mg/L		107	85 - 115	0	20
SiO2	21.4	23.88		mg/L		112	85 - 115	0	20

Lab Sample ID: LLCS 860-52731/4-A
Matrix: Water
Analysis Batch: 53075

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 52731

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2606		mg/L		130	50 - 150
Magnesium	0.200	0.1942	J	mg/L		97	50 - 150
Potassium	0.500	0.4772	J	mg/L		95	50 - 150
Sodium	0.500	0.5722		mg/L		114	50 - 150
SiO2	1.07	1.224		mg/L		114	50 - 150

Lab Sample ID: 880-14638-1 MS
Matrix: Water
Analysis Batch: 53075

Client Sample ID: Levey Well
Prep Type: Total Recoverable
Prep Batch: 52731

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	303	E	25.0	329.3	E 4	mg/L		105	70 - 130
Magnesium	61.6		25.0	90.46	E	mg/L		116	70 - 130
Potassium	4.74		10.0	17.00		mg/L		123	70 - 130
Sodium	90.5		25.0	119.0		mg/L		114	70 - 130
SiO2	80.6		21.4	108.1		mg/L		129	70 - 130

Lab Sample ID: 880-14638-1 MSD
Matrix: Water
Analysis Batch: 53075

Client Sample ID: Levey Well
Prep Type: Total Recoverable
Prep Batch: 52731

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	303	E	25.0	329.4	E 4	mg/L		105	70 - 130	0	20
Magnesium	61.6		25.0	90.48	E	mg/L		116	70 - 130	0	20
Potassium	4.74		10.0	17.02		mg/L		123	70 - 130	0	20
Sodium	90.5		25.0	119.2		mg/L		115	70 - 130	0	20
SiO2	80.6		21.4	108.4		mg/L		130	70 - 130	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-14638-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-52813/4

Matrix: Water

Analysis Batch: 52813

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	mg/L			05/12/22 11:33	1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			05/12/22 11:33	1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			05/12/22 11:33	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			05/12/22 11:33	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			05/12/22 11:33	1

Lab Sample ID: LCS 860-52813/5

Matrix: Water

Analysis Batch: 52813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	259.7		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-52813/6

Matrix: Water

Analysis Batch: 52813

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	263.7		mg/L		105	85 - 115	2	20

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

Lab Sample ID: MB 860-52793/1

Matrix: Water

Analysis Batch: 52793

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	mg/L			05/12/22 14:38	1

Lab Sample ID: LCS 860-52793/2

Matrix: Water

Analysis Batch: 52793

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	1001		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-52793/3

Matrix: Water

Analysis Batch: 52793

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	1041		mg/L		104	80 - 120	4	10

Eurofins Midland

QC Association Summary

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

Job ID: 880-14638-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 52583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14638-1	Levey Well	Total/NA	Water	8260C	
MB 860-52583/9	Method Blank	Total/NA	Water	8260C	
LCS 860-52583/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-52583/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 52542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14638-1	Levey Well	Total/NA	Water	300.0	
MB 860-52542/3	Method Blank	Total/NA	Water	300.0	
LCS 860-52542/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-52542/7	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 52543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14638-1	Levey Well	Total/NA	Water	300.0	
MB 860-52543/3	Method Blank	Total/NA	Water	300.0	
LCS 860-52543/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-52543/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-52543/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 52731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14638-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-52731/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-52731/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-52731/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-52731/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-14638-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-14638-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 53075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14638-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52731
880-14638-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52731
MB 860-52731/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	52731
LCS 860-52731/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	52731
LCSD 860-52731/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	52731
LLCS 860-52731/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	52731
880-14638-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52731
880-14638-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	52731

General Chemistry

Analysis Batch: 52793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14638-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-52793/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-52793/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins Midland

QC Association Summary

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

Job ID: 880-14638-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 52793 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-52793/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 52798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14638-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 52813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14638-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-52813/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-52813/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-52813/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 53299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14638-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-14638-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-14638-1
Date Collected: 05/10/22 10:25 Matrix: Water
Date Received: 05/10/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	52583	05/12/22 07:16	TTD	XEN STF
Total/NA	Analysis	300.0		1	52542	05/11/22 18:58	WP	XEN STF
Total/NA	Analysis	300.0		1	52543	05/11/22 18:58	WP	XEN STF
Total Recoverable	Prep	200.7			52731	05/12/22 11:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	53075	05/15/22 16:33	AV	XEN STF
Total Recoverable	Prep	200.7			52731	05/12/22 11:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	53075	05/15/22 17:16	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	53299	05/17/22 15:14	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	52813	05/12/22 12:37	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	52793	05/12/22 14:38	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	52798	05/12/22 14:41	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 Hobbs, NM - 03B1417001

Job ID: 880-14638-1
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
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: 880-14638-1
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

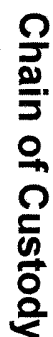
Sample Summary

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

Job ID: 880-14638-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14638-1	Levey Well	Water	05/10/22 10:25	05/10/22 15:00

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



Work Order No:

14036

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

ANALYSIS REQUEST

Work Order Notes

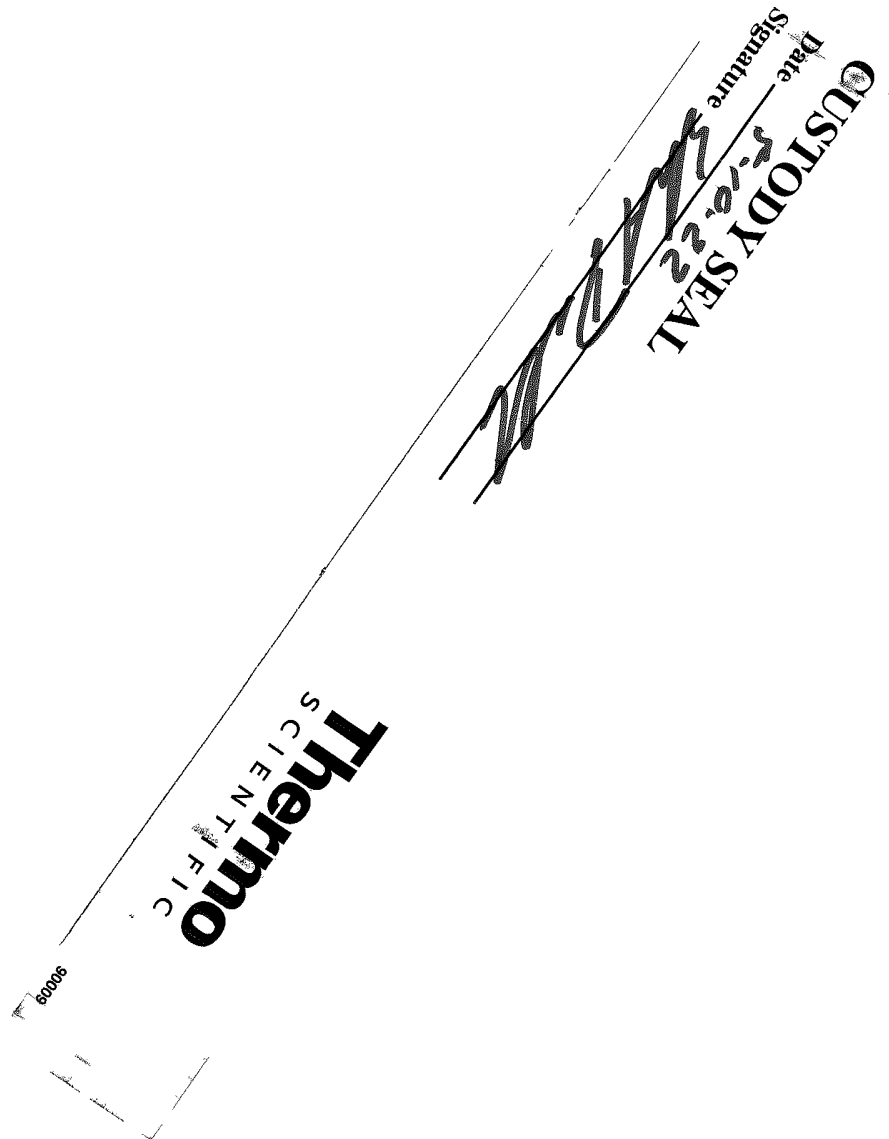
Project Number: 03B1417001		Routine ☐		
P.O. Number: 03B1417001		Rush 24 Hr		
Sampler's Name: Shane Diller		Due Date		
SAMPLE RECEIPT				
Temperature (°C):	Temp Blank:	Yes ☒ No	Wet Ice: ☒ No	
Received Intact:	Thermometer ID			
Cooler Custody Seals:	Yes ☒ No	Correction Factor	-0.3	
Sample Custody Seals:	Yes ☒ No	N/A	Total Containers:	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
Levey Well	GW	5-10-22	1025	
Number of Containers 7				
VOCs				
Anions: F, Cl, SO4, B				
Cations: Ca, K, Mg, Na, Si				
pH				
Alkalinity				
TDS				
Sample Comments				
24 Hr				
TAT starts the day received by the lab if received by 4:30pm				



2008 Chain of Custody

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		Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010		8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		1631 / 245.1 / 7470 / 7471		Hg	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.									
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time				
		5/10							



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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14638-1

SDG Number: Hobbs NM

Login Number: 14638

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14638-1

SDG Number: Hobbs NM

Login Number: 14638

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 05/11/22 03:12 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-14637-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
5/16/2022 2:52:26 PM

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

LINKS

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

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

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

Laboratory Job ID: 880-14637-1

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Definitions/Glossary

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

Job ID: 880-14637-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Glossary

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

Definitions/Glossary

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

Job ID: 880-14637-1

Glossary (Continued)

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

- 1
- 2
- 3
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Case Narrative

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

Job ID: 880-14637-1

Job ID: 880-14637-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-14637-1

Receipt

The samples were received on 5/10/2022 3:00 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 3.3°C

GC/MS VOA

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-52583 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike(MS) for analytical batch 860-52583 exceeded control limits for the following analyte(s): Dichloro difluoromethane, Note that this analyte is a known poor performer when analyzed using this method.

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 (880-14637-2). Note: pH 3.

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 860-52543 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: 880-14637-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-14637-1

Date Collected: 05/10/22 11:00

Matrix: Water

Date Received: 05/10/22 15:00

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			05/12/22 06:55	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/12/22 06:55	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/12/22 06:55	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/12/22 06:55	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/12/22 06:55	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/12/22 06:55	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/12/22 06:55	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/12/22 06:55	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/12/22 06:55	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/12/22 06:55	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/12/22 06:55	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/12/22 06:55	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/12/22 06:55	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/12/22 06:55	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/12/22 06:55	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/12/22 06:55	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/12/22 06:55	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/12/22 06:55	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/12/22 06:55	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/12/22 06:55	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/12/22 06:55	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/12/22 06:55	1
Dichlorodifluoromethane	<0.000316	U *	0.00100	0.000316 mg/L			05/12/22 06:55	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/12/22 06:55	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/12/22 06:55	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/12/22 06:55	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/12/22 06:55	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/12/22 06:55	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/12/22 06:55	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/12/22 06:55	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/12/22 06:55	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 06:55	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/12/22 06:55	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/12/22 06:55	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/12/22 06:55	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/12/22 06:55	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/12/22 06:55	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/12/22 06:55	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/12/22 06:55	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/12/22 06:55	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/12/22 06:55	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/12/22 06:55	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/12/22 06:55	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/12/22 06:55	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/12/22 06:55	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/12/22 06:55	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/12/22 06:55	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/12/22 06:55	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			05/12/22 06:55	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-14637-1

Date Collected: 05/10/22 11:00

Matrix: Water

Date Received: 05/10/22 15:00

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			05/12/22 06:55	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 06:55	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 06:55	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/12/22 06:55	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/12/22 06:55	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/12/22 06:55	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/12/22 06:55	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/12/22 06:55	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			05/12/22 06:55	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			05/12/22 06:55	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/12/22 06:55	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			05/12/22 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		05/12/22 06:55	1
Dibromofluoromethane (Surr)	100		75 - 131		05/12/22 06:55	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		05/12/22 06:55	1
Toluene-d8 (Surr)	101		80 - 117		05/12/22 06:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.985	U	4.98	0.985 mg/L			05/12/22 15:19	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	<0.985	U	4.98	0.985 mg/L		05/12/22 11:07	05/12/22 12:15	1
Diesel Range Organics (Over C10-C28)	<0.985	U	4.98	0.985 mg/L		05/12/22 11:07	05/12/22 12:15	1
Oil Range Organics (Over C28-C36)	<0.950	U	4.98	0.950 mg/L		05/12/22 11:07	05/12/22 12:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135			05/12/22 11:07	05/12/22 12:15	1
o-Terphenyl	100		70 - 135			05/12/22 11:07	05/12/22 12:15	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		0.500	0.200 mg/L			05/11/22 18:19	1
Nitrate as N	0.0815	J	0.100	0.0391 mg/L			05/11/22 18:19	1
Fluoride	0.709		0.500	0.100 mg/L			05/11/22 18:19	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/11/22 18:19	1
Sulfate	43.9		0.500	0.109 mg/L			05/11/22 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	250		4.00	4.00 mg/L			05/12/22 12:00	1
Bicarbonate Alkalinity as CaCO3	250		4.00	4.00 mg/L			05/12/22 12:00	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/12/22 12:00	1
Carbon dioxide	251			mg/L			05/12/22 17:14	1
Carbon Dioxide, Free	31.5			mg/L			05/12/22 17:14	1
pH	7.2	HF		SU			05/12/22 14:36	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-14637-1

Date Collected: 05/10/22 11:00

Matrix: Water

Date Received: 05/10/22 15:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	16.7	HF		Degrees C			05/12/22 14:36	1
Sulfide	1.20	J	5.00	0.495 mg/L			05/12/22 18:59	1

Client Sample ID: MW-2

Lab Sample ID: 880-14637-2

Date Collected: 05/10/22 12:05

Matrix: Water

Date Received: 05/10/22 15:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0197		0.00100	0.000214 mg/L			05/12/22 07:57	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/12/22 07:57	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/12/22 07:57	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/12/22 07:57	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/12/22 07:57	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/12/22 07:57	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/12/22 07:57	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/12/22 07:57	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/12/22 07:57	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/12/22 07:57	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/12/22 07:57	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/12/22 07:57	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/12/22 07:57	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/12/22 07:57	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/12/22 07:57	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/12/22 07:57	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/12/22 07:57	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/12/22 07:57	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/12/22 07:57	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/12/22 07:57	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/12/22 07:57	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/12/22 07:57	1
Dichlorodifluoromethane	<0.000316	U *	0.00100	0.000316 mg/L			05/12/22 07:57	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/12/22 07:57	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/12/22 07:57	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/12/22 07:57	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/12/22 07:57	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/12/22 07:57	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/12/22 07:57	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/12/22 07:57	1
Ethylbenzene	0.0184		0.00100	0.000515 mg/L			05/12/22 07:57	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 07:57	1
Isopropylbenzene	0.00681		0.00100	0.000161 mg/L			05/12/22 07:57	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/12/22 07:57	1
m,p-Xylenes	0.129		0.0100	0.000330 mg/L			05/12/22 07:57	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/12/22 07:57	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/12/22 07:57	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/12/22 07:57	1
N-Propylbenzene	0.00180		0.00100	0.000179 mg/L			05/12/22 07:57	1
o-Xylene	0.0142		0.00100	0.000192 mg/L			05/12/22 07:57	1
p-Cymene (p-Isopropyltoluene)	0.000953	J	0.00100	0.000233 mg/L			05/12/22 07:57	1

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Client Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-14637-2

Date Collected: 05/10/22 12:05

Matrix: Water

Date Received: 05/10/22 15:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.000957	J	0.00100	0.000199 mg/L			05/12/22 07:57	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/12/22 07:57	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/12/22 07:57	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/12/22 07:57	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/12/22 07:57	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/12/22 07:57	1
Toluene	0.00422		0.00100	0.000500 mg/L			05/12/22 07:57	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			05/12/22 07:57	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			05/12/22 07:57	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 07:57	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 07:57	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/12/22 07:57	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/12/22 07:57	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/12/22 07:57	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/12/22 07:57	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/12/22 07:57	1
1,2,4-Trimethylbenzene	0.0367		0.00100	0.000252 mg/L			05/12/22 07:57	1
1,3,5-Trimethylbenzene	0.00949		0.00100	0.000279 mg/L			05/12/22 07:57	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/12/22 07:57	1
Xylenes, Total	0.143		0.0100	0.000330 mg/L			05/12/22 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		05/12/22 07:57	1
Dibromofluoromethane (Surr)	101		75 - 131		05/12/22 07:57	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		05/12/22 07:57	1
Toluene-d8 (Surr)	97		80 - 117		05/12/22 07:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.63	J	4.89	0.965 mg/L			05/12/22 15:19	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	1.63	J	4.89	0.965 mg/L		05/12/22 11:07	05/12/22 14:22	1
Diesel Range Organics (Over C10-C28)	<0.965	U	4.89	0.965 mg/L		05/12/22 11:07	05/12/22 14:22	1
Oil Range Organics (Over C28-C36)	<0.932	U	4.89	0.932 mg/L		05/12/22 11:07	05/12/22 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 135	05/12/22 11:07	05/12/22 14:22	1
o-Terphenyl	91		70 - 135	05/12/22 11:07	05/12/22 14:22	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		0.500	0.200 mg/L			05/11/22 18:32	1
Nitrate as N	0.548		0.100	0.0391 mg/L			05/11/22 18:32	1
Fluoride	0.230	J	0.500	0.100 mg/L			05/11/22 18:32	1
Nitrite as N	1.83		0.100	0.0293 mg/L			05/11/22 18:32	1
Sulfate	120		0.500	0.109 mg/L			05/11/22 18:32	1

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Client Sample Results

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

Job ID: 880-14637-1

Client Sample ID: MW-2
Date Collected: 05/10/22 12:05
Date Received: 05/10/22 15:00

Lab Sample ID: 880-14637-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1320		4.00	4.00	mg/L			05/12/22 12:25	1
Bicarbonate Alkalinity as CaCO3	1320		4.00	4.00	mg/L			05/12/22 12:25	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/12/22 12:25	1
Carbon dioxide	2480				mg/L			05/12/22 17:14	1
Carbon Dioxide, Free	1320				mg/L			05/12/22 17:14	1
pH	6.3	HF			SU			05/12/22 14:39	1
Temperature	16.8	HF			Degrees C			05/12/22 14:39	1
Sulfide	<0.495	U	5.00	0.495	mg/L			05/12/22 18:59	1

Surrogate Summary

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

Job ID: 880-14637-1

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
880-14547-B-1 MS	Matrix Spike	100	101	103	98
880-14637-1	MW-1	99	100	104	101
880-14637-2	MW-2	99	101	108	97
LCS 860-52583/3	Lab Control Sample	99	101	103	97
LCSD 860-52583/4	Lab Control Sample Dup	98	102	101	99
MB 860-52583/9	Method Blank	99	98	102	99
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-135)	(70-135)
880-14637-1	MW-1	85	100
880-14637-2	MW-2	78	91
880-14637-2 MS	MW-2	93	89
LCS 860-52737/2-A	Lab Control Sample	101	86
LCSD 860-52737/3-A	Lab Control Sample Dup	103	89
MB 860-52737/1-A	Method Blank	81	89
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-52583/9

Matrix: Water

Analysis Batch: 52583

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			05/12/22 00:50	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/12/22 00:50	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/12/22 00:50	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/12/22 00:50	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/12/22 00:50	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/12/22 00:50	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/12/22 00:50	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/12/22 00:50	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/12/22 00:50	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/12/22 00:50	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/12/22 00:50	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/12/22 00:50	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/12/22 00:50	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/12/22 00:50	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/12/22 00:50	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/12/22 00:50	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/12/22 00:50	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/12/22 00:50	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/12/22 00:50	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/12/22 00:50	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/12/22 00:50	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/12/22 00:50	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/12/22 00:50	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/12/22 00:50	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/12/22 00:50	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/12/22 00:50	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/12/22 00:50	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/12/22 00:50	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/12/22 00:50	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/12/22 00:50	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/12/22 00:50	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 00:50	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/12/22 00:50	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/12/22 00:50	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/12/22 00:50	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/12/22 00:50	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/12/22 00:50	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/12/22 00:50	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/12/22 00:50	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/12/22 00:50	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/12/22 00:50	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/12/22 00:50	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/12/22 00:50	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/12/22 00:50	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/12/22 00:50	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/12/22 00:50	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/12/22 00:50	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/12/22 00:50	1

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QC Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-52583/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 52583

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			05/12/22 00:50	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			05/12/22 00:50	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 00:50	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/12/22 00:50	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/12/22 00:50	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/12/22 00:50	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/12/22 00:50	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/12/22 00:50	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/12/22 00:50	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			05/12/22 00:50	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			05/12/22 00:50	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/12/22 00:50	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			05/12/22 00:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		05/12/22 00:50	1
Dibromofluoromethane (Surr)	98		75 - 131		05/12/22 00:50	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/12/22 00:50	1
Toluene-d8 (Surr)	99		80 - 117		05/12/22 00:50	1

Lab Sample ID: LCS 860-52583/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 52583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04834		mg/L		97	66 - 142
Bromobenzene	0.0500	0.04739		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.05129		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05182		mg/L		104	75 - 125
Bromoform	0.0500	0.05251		mg/L		105	75 - 125
Bromomethane	0.0500	0.04422		mg/L		88	60 - 140
2-Butanone	0.250	0.2494		mg/L		100	60 - 140
Carbon tetrachloride	0.0500	0.04985		mg/L		100	62 - 125
Chlorobenzene	0.0500	0.04782		mg/L		96	60 - 133
Chloroethane	0.0500	0.04834		mg/L		97	60 - 140
Chloroform	0.0500	0.05019		mg/L		100	70 - 130
Chloromethane	0.0500	0.04798		mg/L		96	60 - 140
2-Chlorotoluene	0.0500	0.04728		mg/L		95	73 - 125
4-Chlorotoluene	0.0500	0.04647		mg/L		93	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04839		mg/L		97	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04922		mg/L		98	74 - 125
Dibromochloromethane	0.0500	0.05191		mg/L		104	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05518		mg/L		110	59 - 125
1,2-Dibromoethane	0.0500	0.04800		mg/L		96	73 - 125
1,2-Dichlorobenzene	0.0500	0.04721		mg/L		94	75 - 125
1,3-Dichlorobenzene	0.0500	0.04750		mg/L		95	75 - 125
1,4-Dichlorobenzene	0.0500	0.04612		mg/L		92	75 - 125
Dichlorodifluoromethane	0.0500	0.03248	*-	mg/L		65	70 - 130

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QC Sample Results

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

Job ID: 880-14637-1

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

Lab Sample ID: LCS 860-52583/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 52583							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04910		mg/L		98	72 - 125
1,2-Dichloroethane	0.0500	0.05054		mg/L		101	68 - 127
1,1-Dichloroethene	0.0500	0.04610		mg/L		92	59 - 172
1,2-Dichloropropane	0.0500	0.04992		mg/L		100	74 - 125
1,3-Dichloropropane	0.0500	0.04831		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.04377		mg/L		88	75 - 125
1,1-Dichloropropene	0.0500	0.04763		mg/L		95	75 - 125
Ethylbenzene	0.0500	0.04774		mg/L		95	75 - 125
Hexachlorobutadiene	0.0500	0.04526		mg/L		91	75 - 125
Isopropylbenzene	0.0500	0.04750		mg/L		95	75 - 125
Methylene Chloride	0.0500	0.04868		mg/L		97	75 - 125
m,p-Xylenes	0.0500	0.04701		mg/L		94	75 - 125
MTBE	0.0500	0.05039		mg/L		101	65 - 135
Naphthalene	0.0500	0.05366		mg/L		107	70 - 130
n-Butylbenzene	0.0500	0.04524		mg/L		90	75 - 125
N-Propylbenzene	0.0500	0.04633		mg/L		93	75 - 125
o-Xylene	0.0500	0.04823		mg/L		96	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04623		mg/L		92	75 - 125
sec-Butylbenzene	0.0500	0.04642		mg/L		93	75 - 125
Styrene	0.0500	0.04837		mg/L		97	75 - 125
tert-Butylbenzene	0.0500	0.04682		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04999		mg/L		100	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04692		mg/L		94	74 - 125
Tetrachloroethene	0.0500	0.04661		mg/L		93	71 - 125
Toluene	0.0500	0.04764		mg/L		95	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04942		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04947		mg/L		99	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05076		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04923		mg/L		98	75 - 135
1,1,1-Trichloroethane	0.0500	0.04936		mg/L		99	75 - 125
1,1,2-Trichloroethane	0.0500	0.04875		mg/L		98	75 - 127
Trichloroethene	0.0500	0.04812		mg/L		96	62 - 137
Trichlorofluoromethane	0.0500	0.04451		mg/L		89	60 - 140
1,2,3-Trichloropropane	0.0500	0.04756		mg/L		95	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04745		mg/L		95	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04668		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04896		mg/L		98	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	99		74 - 124				
Dibromofluoromethane (Surr)	101		75 - 131				
1,2-Dichloroethane-d4 (Surr)	103		63 - 144				
Toluene-d8 (Surr)	97		80 - 117				

QC Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-52583/4

Matrix: Water

Analysis Batch: 52583

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Benzene	0.0500	0.04876		mg/L		98	66 - 142	1	25
Bromobenzene	0.0500	0.04825		mg/L		96	75 - 125	2	25
Bromochloromethane	0.0500	0.04922		mg/L		98	60 - 140	4	25
Bromodichloromethane	0.0500	0.05060		mg/L		101	75 - 125	2	25
Bromoform	0.0500	0.05195		mg/L		104	75 - 125	1	25
Bromomethane	0.0500	0.04375		mg/L		87	60 - 140	1	25
2-Butanone	0.250	0.2353		mg/L		94	60 - 140	6	25
Carbon tetrachloride	0.0500	0.05074		mg/L		101	62 - 125	2	25
Chlorobenzene	0.0500	0.04877		mg/L		98	60 - 133	2	25
Chloroethane	0.0500	0.04731		mg/L		95	60 - 140	2	25
Chloroform	0.0500	0.04988		mg/L		100	70 - 130	1	25
Chloromethane	0.0500	0.04667		mg/L		93	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04774		mg/L		95	73 - 125	1	25
4-Chlorotoluene	0.0500	0.04669		mg/L		93	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04831		mg/L		97	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.04846		mg/L		97	74 - 125	2	25
Dibromochloromethane	0.0500	0.05215		mg/L		104	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05048		mg/L		101	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.04843		mg/L		97	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04698		mg/L		94	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.04752		mg/L		95	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.04686		mg/L		94	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.03201	*	mg/L		64	70 - 130	1	25
1,1-Dichloroethane	0.0500	0.04916		mg/L		98	72 - 125	0	25
1,2-Dichloroethane	0.0500	0.05015		mg/L		100	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.04743		mg/L		95	59 - 172	3	25
1,2-Dichloropropane	0.0500	0.04975		mg/L		100	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04806		mg/L		96	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04332		mg/L		87	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04718		mg/L		94	75 - 125	1	25
Ethylbenzene	0.0500	0.04822		mg/L		96	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.04632		mg/L		93	75 - 125	2	25
Isopropylbenzene	0.0500	0.04915		mg/L		98	75 - 125	3	25
Methylene Chloride	0.0500	0.04813		mg/L		96	75 - 125	1	25
m,p-Xylenes	0.0500	0.04794		mg/L		96	75 - 125	2	25
MTBE	0.0500	0.04944		mg/L		99	65 - 135	2	25
Naphthalene	0.0500	0.04920		mg/L		98	70 - 130	9	25
n-Butylbenzene	0.0500	0.04645		mg/L		93	75 - 125	3	25
N-Propylbenzene	0.0500	0.04691		mg/L		94	75 - 125	1	25
o-Xylene	0.0500	0.04880		mg/L		98	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04697		mg/L		94	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04746		mg/L		95	75 - 125	2	25
Styrene	0.0500	0.04915		mg/L		98	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04826		mg/L		97	75 - 125	3	25
1,1,1,2-Tetrachloroethane	0.0500	0.05121		mg/L		102	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.04565		mg/L		91	74 - 125	3	25
Tetrachloroethene	0.0500	0.04810		mg/L		96	71 - 125	3	25
Toluene	0.0500	0.04843		mg/L		97	59 - 139	2	25

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QC Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-52583/4

Matrix: Water

Analysis Batch: 52583

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	0.04952		mg/L		99	75 - 125	0	25
trans-1,3-Dichloropropene	0.0500	0.04922		mg/L		98	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.04683		mg/L		94	75 - 137	8	25
1,2,4-Trichlorobenzene	0.0500	0.04693		mg/L		94	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.04971		mg/L		99	75 - 125	1	25
1,1,2-Trichloroethane	0.0500	0.04934		mg/L		99	75 - 127	1	25
Trichloroethene	0.0500	0.04901		mg/L		98	62 - 137	2	25
Trichlorofluoromethane	0.0500	0.04429		mg/L		89	60 - 140	0	25
1,2,3-Trichloropropane	0.0500	0.04646		mg/L		93	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04766		mg/L		95	75 - 125	0	25
1,3,5-Trimethylbenzene	0.0500	0.04760		mg/L		95	60 - 140	2	25
Vinyl chloride	0.0500	0.04883		mg/L		98	60 - 140	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	99		80 - 117

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

Lab Sample ID: MB 860-52737/1-A

Matrix: Water

Analysis Batch: 52743

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52737

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		05/12/22 11:07	05/12/22 12:15	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		05/12/22 11:07	05/12/22 12:15	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		05/12/22 11:07	05/12/22 12:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135	05/12/22 11:07	05/12/22 12:15	1
o-Terphenyl	89		70 - 135	05/12/22 11:07	05/12/22 12:15	1

Lab Sample ID: LCS 860-52737/2-A

Matrix: Water

Analysis Batch: 52743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.7	97.50		mg/L		98	70 - 135
Diesel Range Organics (Over C10-C28)	99.9	91.03		mg/L		91	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 135
o-Terphenyl	86		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-52737/3-A

Matrix: Water

Analysis Batch: 52743

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52737

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.7	99.58		mg/L		100	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	99.9	94.47		mg/L		95	70 - 135	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	103		70 - 135						
o-Terphenyl	89		70 - 135						

Lab Sample ID: 880-14637-2 MS

Matrix: Water

Analysis Batch: 52746

Client Sample ID: MW-2

Prep Type: Total/NA

Prep Batch: 52737

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1.63	J	99.7	96.65		mg/L		95	70 - 135		
Diesel Range Organics (Over C10-C28)	<0.965	U	99.9	98.52		mg/L		99	70 - 135		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	93		70 - 135								
o-Terphenyl	89		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-52542/3

Matrix: Water

Analysis Batch: 52542

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			05/11/22 09:52	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/11/22 09:52	1
Sulfate	<0.109	U	0.500	0.109 mg/L			05/11/22 09:52	1

Lab Sample ID: LCS 860-52542/6

Matrix: Water

Analysis Batch: 52542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.624		mg/L		96	90 - 110		
Fluoride	10.0	10.25		mg/L		103	90 - 110		
Sulfate	10.0	9.807		mg/L		98	90 - 110		

Lab Sample ID: LCSD 860-52542/7

Matrix: Water

Analysis Batch: 52542

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	9.701		mg/L		97	90 - 110	1	20
Fluoride	10.0	10.28		mg/L		103	90 - 110	0	20

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QC Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-52542/7

Matrix: Water

Analysis Batch: 52542

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	9.847		mg/L		98	90 - 110	0	20

Lab Sample ID: MB 860-52543/3

Matrix: Water

Analysis Batch: 52543

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			05/11/22 09:52	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/11/22 09:52	1

Lab Sample ID: LCS 860-52543/6

Matrix: Water

Analysis Batch: 52543

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	9.368		mg/L		94	80 - 120
Nitrite as N	5.00	5.092		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-52543/7

Matrix: Water

Analysis Batch: 52543

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	9.405		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	5.130		mg/L		103	80 - 120	1	20

Lab Sample ID: LLCS 860-52543/4

Matrix: Water

Analysis Batch: 52543

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	0.1224		mg/L		122	50 - 150
Nitrite as N	0.100	0.1182		mg/L		118	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-52813/4

Matrix: Water

Analysis Batch: 52813

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			05/12/22 11:33	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/12/22 11:33	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/12/22 11:33	1

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QC Sample Results

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 860-52813/5

Matrix: Water

Analysis Batch: 52813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	259.7		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-52813/6

Matrix: Water

Analysis Batch: 52813

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	263.7		mg/L		105	85 - 115	2	20

Lab Sample ID: 880-14637-1 DU

Matrix: Water

Analysis Batch: 52813

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	250		258.4		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	250		258.4		mg/L		3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-14637-1 DU

Matrix: Water

Analysis Batch: 52798

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		0.1	20
Temperature	16.7	HF	16.6		Degrees C		0.6	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-52786/21

Matrix: Water

Analysis Batch: 52786

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			05/12/22 18:59	1

Lab Sample ID: LCS 860-52786/22

Matrix: Water

Analysis Batch: 52786

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	46.20		mg/L		92	80 - 120

Lab Sample ID: LCSD 860-52786/23

Matrix: Water

Analysis Batch: 52786

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	45.60		mg/L		91	80 - 120	1	20

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QC Association Summary

Client: Ensolum

Job ID: 880-14637-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 52583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14637-1	MW-1	Total/NA	Water	8260C	
880-14637-2	MW-2	Total/NA	Water	8260C	
MB 860-52583/9	Method Blank	Total/NA	Water	8260C	
LCS 860-52583/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-52583/4	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
880-14637-1	MW-1	Total/NA	Water	8015 NM	
880-14637-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 52737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14637-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-14637-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-52737/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-52737/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-52737/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-14637-2 MS	MW-2	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 52743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-52737/1-A	Method Blank	Total/NA	Water	8015B NM	52737
LCS 860-52737/2-A	Lab Control Sample	Total/NA	Water	8015B NM	52737
LCSD 860-52737/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	52737

Analysis Batch: 52746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14637-1	MW-1	Total/NA	Water	8015B NM	52737
880-14637-2	MW-2	Total/NA	Water	8015B NM	52737
880-14637-2 MS	MW-2	Total/NA	Water	8015B NM	52737

HPLC/IC

Analysis Batch: 52542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14637-1	MW-1	Total/NA	Water	300.0	
880-14637-2	MW-2	Total/NA	Water	300.0	
MB 860-52542/3	Method Blank	Total/NA	Water	300.0	
LCS 860-52542/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-52542/7	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 52543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14637-1	MW-1	Total/NA	Water	300.0	
880-14637-2	MW-2	Total/NA	Water	300.0	
MB 860-52543/3	Method Blank	Total/NA	Water	300.0	
LCS 860-52543/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-52543/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-52543/4	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-14637-1

General Chemistry

Analysis Batch: 52786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14637-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-14637-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-52786/21	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-52786/22	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-52786/23	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-14637-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-14637-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 52798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14637-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-14637-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-14637-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 52813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14637-1	MW-1	Total/NA	Water	SM 2320B	
880-14637-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-52813/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-52813/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-52813/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-14637-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 52829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14637-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-14637-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-14637-1

Client Sample ID: MW-1

Date Collected: 05/10/22 11:00

Date Received: 05/10/22 15:00

Lab Sample ID: 880-14637-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	52583	05/12/22 06:55	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	50664	05/12/22 15:19	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			52737	05/12/22 11:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	52746	05/12/22 12:15	SAR	XEN STF
Total/NA	Analysis	300.0		1	52542	05/11/22 18:19	WP	XEN STF
Total/NA	Analysis	300.0		1	52543	05/11/22 18:19	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	52813	05/12/22 12:00	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	52829	05/12/22 17:14	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	52798	05/12/22 14:36	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	52786	05/12/22 18:59	YGG	XEN STF

Client Sample ID: MW-2

Date Collected: 05/10/22 12:05

Date Received: 05/10/22 15:00

Lab Sample ID: 880-14637-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	52583	05/12/22 07:57	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	50664	05/12/22 15:19	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			52737	05/12/22 11:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	52746	05/12/22 14:22	SAR	XEN STF
Total/NA	Analysis	300.0		1	52542	05/11/22 18:32	WP	XEN STF
Total/NA	Analysis	300.0		1	52543	05/11/22 18:32	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	52813	05/12/22 12:25	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	52829	05/12/22 17:14	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	52798	05/12/22 14:39	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	52786	05/12/22 18:59	YGG	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: South Hobbs - 03B1417002

Job ID: 880-14637-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

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

Job ID: 880-14637-1

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

Protocol References:

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

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-14637-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14637-1	MW-1	Water	05/10/22 11:00	05/10/22 15:00
880-14637-2	MW-2	Water	05/10/22 12:05	05/10/22 15:00

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Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915)555-3443 Lubbock, TX (806)794-1296
Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-888-8888)

Chain of Custody

Work Order No:

14437

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 ☐	

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14637-1

Login Number: 14637

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14637-1

Login Number: 14637

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 05/11/22 03:12 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15005-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:

5/27/2022 3:35:28 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-15005-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-15005-1

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
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

Eurofins Midland

Case Narrative

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

Job ID: 880-15005-1
SDG: Hobbs NM

Job ID: 880-15005-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-15005-1

Receipt

The sample was received on 5/19/2022 3:40 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 5.7°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-53816 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 200.7: Due to the high concentration of calcium and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-53886 and analytical batch 860-54519 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 200.7: Due to the high concentration of calcium and magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-53886 and analytical batch 860-54519 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: 880-15005-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-15005-1

Date Collected: 05/19/22 10:30

Matrix: Water

Date Received: 05/19/22 15:40

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00285		0.00100	0.000214	mg/L		05/20/22 15:48	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		05/20/22 15:48	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		05/20/22 15:48	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		05/20/22 15:48	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		05/20/22 15:48	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		05/20/22 15:48	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		05/20/22 15:48	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		05/20/22 15:48	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		05/20/22 15:48	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		05/20/22 15:48	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		05/20/22 15:48	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		05/20/22 15:48	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		05/20/22 15:48	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		05/20/22 15:48	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		05/20/22 15:48	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		05/20/22 15:48	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		05/20/22 15:48	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		05/20/22 15:48	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		05/20/22 15:48	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		05/20/22 15:48	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		05/20/22 15:48	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		05/20/22 15:48	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		05/20/22 15:48	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		05/20/22 15:48	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		05/20/22 15:48	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		05/20/22 15:48	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		05/20/22 15:48	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		05/20/22 15:48	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		05/20/22 15:48	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		05/20/22 15:48	1
Ethylbenzene	0.0107		0.00100	0.000515	mg/L		05/20/22 15:48	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		05/20/22 15:48	1
Isopropylbenzene	0.00521		0.00100	0.000161	mg/L		05/20/22 15:48	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		05/20/22 15:48	1
m,p-Xylenes	0.0424		0.0100	0.000330	mg/L		05/20/22 15:48	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		05/20/22 15:48	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		05/20/22 15:48	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		05/20/22 15:48	1
N-Propylbenzene	0.00232		0.00100	0.000179	mg/L		05/20/22 15:48	1
o-Xylene	0.00633		0.00100	0.000192	mg/L		05/20/22 15:48	1
p-Cymene (p-Isopropyltoluene)	0.000527	J	0.00100	0.000233	mg/L		05/20/22 15:48	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		05/20/22 15:48	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		05/20/22 15:48	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		05/20/22 15:48	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		05/20/22 15:48	1
1,1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		05/20/22 15:48	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		05/20/22 15:48	1
Toluene	0.0228		0.00100	0.000500	mg/L		05/20/22 15:48	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		05/20/22 15:48	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-15005-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-15005-1

Date Collected: 05/19/22 10:30

Matrix: Water

Date Received: 05/19/22 15:40

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			05/20/22 15:48	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 15:48	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 15:48	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/20/22 15:48	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/20/22 15:48	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/20/22 15:48	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/20/22 15:48	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/20/22 15:48	1
1,2,4-Trimethylbenzene	0.0102		0.00100	0.000252 mg/L			05/20/22 15:48	1
1,3,5-Trimethylbenzene	0.00345		0.00100	0.000279 mg/L			05/20/22 15:48	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/20/22 15:48	1
Xylenes, Total	0.0487		0.0100	0.000330 mg/L			05/20/22 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		05/20/22 15:48	1
Dibromofluoromethane (Surr)	97		75 - 131		05/20/22 15:48	1
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/20/22 15:48	1
Toluene-d8 (Surr)	101		80 - 117		05/20/22 15:48	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.551		0.500	0.0711 mg/L			05/20/22 13:56	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			05/20/22 13:56	1
Chloride	217		0.500	0.200 mg/L			05/20/22 13:56	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/20/22 13:56	1
Fluoride	0.519		0.500	0.100 mg/L			05/20/22 13:56	1
Sulfate	45.9		0.500	0.109 mg/L			05/20/22 13:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	242	B	10.0	1.47 mg/L		05/21/22 09:48	05/25/22 23:56	50
Magnesium	51.7		0.200	0.0500 mg/L		05/21/22 09:48	05/25/22 22:14	1
Potassium	4.08		0.500	0.107 mg/L		05/21/22 09:48	05/26/22 18:10	1
Sodium	74.8		0.500	0.0667 mg/L		05/21/22 09:48	05/26/22 18:10	1
SiO2	60.9		1.07	0.0781 mg/L		05/21/22 09:48	05/25/22 22:14	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	5.76			%			05/27/22 13:55	1
Alkalinity	421		4.00	4.00 mg/L			05/20/22 12:45	1
Bicarbonate Alkalinity as CaCO3	421		4.00	4.00 mg/L			05/20/22 12:45	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/20/22 12:45	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			05/20/22 12:45	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			05/20/22 12:45	1
Total Dissolved Solids	1040		10.0	10.0 mg/L			05/20/22 13:07	1
pH	6.7	HF		SU			05/20/22 14:47	1
Temperature	20.8	HF		Degrees C			05/20/22 14:47	1

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Surrogate Summary

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

Job ID: 880-15005-1
SDG: Hobbs NM

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
860-26362-B-36 MS	Matrix Spike	95	97	94	98
880-15005-1	Levey Well	97	97	98	101
LCS 860-53717/3	Lab Control Sample	98	97	95	97
LCSD 860-53717/4	Lab Control Sample Dup	96	97	96	97
MB 860-53717/10	Method Blank	100	98	98	98
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-15005-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-53717/10

Matrix: Water

Analysis Batch: 53717

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			05/20/22 11:01	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/20/22 11:01	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/20/22 11:01	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/20/22 11:01	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/20/22 11:01	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/20/22 11:01	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/20/22 11:01	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/20/22 11:01	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/20/22 11:01	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/20/22 11:01	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/20/22 11:01	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/20/22 11:01	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/20/22 11:01	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/20/22 11:01	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/20/22 11:01	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/20/22 11:01	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/20/22 11:01	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/20/22 11:01	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/20/22 11:01	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/20/22 11:01	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/20/22 11:01	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/20/22 11:01	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/20/22 11:01	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/20/22 11:01	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/20/22 11:01	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/20/22 11:01	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/20/22 11:01	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/20/22 11:01	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/20/22 11:01	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/20/22 11:01	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/20/22 11:01	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 11:01	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/20/22 11:01	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/20/22 11:01	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/20/22 11:01	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/20/22 11:01	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/20/22 11:01	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/20/22 11:01	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/20/22 11:01	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/20/22 11:01	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/20/22 11:01	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/20/22 11:01	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/20/22 11:01	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/20/22 11:01	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/20/22 11:01	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/20/22 11:01	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/20/22 11:01	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/20/22 11:01	1

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QC Sample Results

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

Job ID: 880-15005-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-53717/10

Matrix: Water

Analysis Batch: 53717

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			05/20/22 11:01	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			05/20/22 11:01	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 11:01	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 11:01	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/20/22 11:01	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/20/22 11:01	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/20/22 11:01	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/20/22 11:01	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/20/22 11:01	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			05/20/22 11:01	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			05/20/22 11:01	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/20/22 11:01	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			05/20/22 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		05/20/22 11:01	1
Dibromofluoromethane (Surr)	98		75 - 131		05/20/22 11:01	1
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/20/22 11:01	1
Toluene-d8 (Surr)	98		80 - 117		05/20/22 11:01	1

Lab Sample ID: LCS 860-53717/3

Matrix: Water

Analysis Batch: 53717

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	0.05168		mg/L		103	66 - 142
Bromobenzene	0.0500	0.05009		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.05071		mg/L		101	60 - 140
Bromodichloromethane	0.0500	0.05138		mg/L		103	75 - 125
Bromoform	0.0500	0.05147		mg/L		103	75 - 125
Bromomethane	0.0500	0.05059		mg/L		101	60 - 140
2-Butanone	0.250	0.2409		mg/L		96	60 - 140
Carbon tetrachloride	0.0500	0.04576		mg/L		92	62 - 125
Chlorobenzene	0.0500	0.05167		mg/L		103	60 - 133
Chloroethane	0.0500	0.05382		mg/L		108	60 - 140
Chloroform	0.0500	0.05094		mg/L		102	70 - 130
Chloromethane	0.0500	0.05371		mg/L		107	60 - 140
2-Chlorotoluene	0.0500	0.04953		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04973		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05042		mg/L		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05189		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.05041		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04892		mg/L		98	59 - 125
1,2-Dibromoethane	0.0500	0.05001		mg/L		100	73 - 125
1,2-Dichlorobenzene	0.0500	0.05025		mg/L		101	75 - 125
1,3-Dichlorobenzene	0.0500	0.05117		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.04977		mg/L		100	75 - 125
Dichlorodifluoromethane	0.0500	0.05202		mg/L		104	70 - 130

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Job ID: 880-15005-1
SDG: Hobbs NM

Lab Sample ID: LCS 860-53717/3
Matrix: Water
Analysis Batch: 53717

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

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
Toluene-d8 (Surr)	97		80 - 117

5/27/2022

QC Sample Results

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

Job ID: 880-15005-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-53717/4

Matrix: Water

Analysis Batch: 53717

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	0.05282		mg/L		106	66 - 142	2	25
Bromobenzene	0.0500	0.05162		mg/L		103	75 - 125	3	25
Bromochloromethane	0.0500	0.05177		mg/L		104	60 - 140	2	25
Bromodichloromethane	0.0500	0.05302		mg/L		106	75 - 125	3	25
Bromoform	0.0500	0.05675		mg/L		113	75 - 125	10	25
Bromomethane	0.0500	0.05060		mg/L		101	60 - 140	0	25
2-Butanone	0.250	0.2668		mg/L		107	60 - 140	10	25
Carbon tetrachloride	0.0500	0.04622		mg/L		92	62 - 125	1	25
Chlorobenzene	0.0500	0.05364		mg/L		107	60 - 133	4	25
Chloroethane	0.0500	0.05269		mg/L		105	60 - 140	2	25
Chloroform	0.0500	0.05242		mg/L		105	70 - 130	3	25
Chloromethane	0.0500	0.05027		mg/L		101	60 - 140	7	25
2-Chlorotoluene	0.0500	0.05059		mg/L		101	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05154		mg/L		103	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05160		mg/L		103	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05364		mg/L		107	74 - 125	3	25
Dibromochloromethane	0.0500	0.05422		mg/L		108	73 - 125	7	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05394		mg/L		108	59 - 125	10	25
1,2-Dibromoethane	0.0500	0.05359		mg/L		107	73 - 125	7	25
1,2-Dichlorobenzene	0.0500	0.05154		mg/L		103	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.05127		mg/L		103	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05089		mg/L		102	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.04920		mg/L		98	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.04958		mg/L		99	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.05121		mg/L		102	68 - 127	5	25
1,1-Dichloroethene	0.0500	0.05209		mg/L		104	59 - 172	2	25
1,2-Dichloropropane	0.0500	0.05294		mg/L		106	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.05193		mg/L		104	75 - 125	6	25
2,2-Dichloropropane	0.0500	0.05489		mg/L		110	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.05111		mg/L		102	75 - 125	1	25
Ethylbenzene	0.0500	0.05380		mg/L		108	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05262		mg/L		105	75 - 125	3	25
Isopropylbenzene	0.0500	0.05520		mg/L		110	75 - 125	5	25
Methylene Chloride	0.0500	0.05008		mg/L		100	75 - 125	4	25
m,p-Xylenes	0.0500	0.05328		mg/L		107	75 - 125	2	25
MTBE	0.0500	0.05083		mg/L		102	65 - 135	5	25
Naphthalene	0.0500	0.05797		mg/L		116	70 - 130	7	25
n-Butylbenzene	0.0500	0.05203		mg/L		104	75 - 125	3	25
N-Propylbenzene	0.0500	0.05126		mg/L		103	75 - 125	3	25
o-Xylene	0.0500	0.05380		mg/L		108	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05250		mg/L		105	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05276		mg/L		106	75 - 125	3	25
Styrene	0.0500	0.05458		mg/L		109	75 - 125	3	25
tert-Butylbenzene	0.0500	0.05237		mg/L		105	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.05343		mg/L		107	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05058		mg/L		101	74 - 125	10	25
Tetrachloroethene	0.0500	0.05440		mg/L		109	71 - 125	3	25
Toluene	0.0500	0.05255		mg/L		105	59 - 139	4	25

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QC Sample Results

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

Job ID: 880-15005-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-53717/4

Matrix: Water

Analysis Batch: 53717

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	0.05052		mg/L		101	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.05302		mg/L		106	66 - 125	7	25
1,2,3-Trichlorobenzene	0.0500	0.05788		mg/L		116	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.05383		mg/L		108	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.05239		mg/L		105	75 - 125	2	25
1,1,2-Trichloroethane	0.0500	0.05268		mg/L		105	75 - 127	8	25
Trichloroethene	0.0500	0.05475		mg/L		109	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05438		mg/L		109	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.05271		mg/L		105	75 - 125	16	25
1,2,4-Trimethylbenzene	0.0500	0.05150		mg/L		103	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05105		mg/L		102	60 - 140	2	25
Vinyl chloride	0.0500	0.05219		mg/L		104	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-53815/3

Matrix: Water

Analysis Batch: 53815

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			05/20/22 12:01	1
Chloride	<0.200	U	0.500	0.200 mg/L			05/20/22 12:01	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/20/22 12:01	1
Sulfate	<0.109	U	0.500	0.109 mg/L			05/20/22 12:01	1

Lab Sample ID: LCS 860-53815/6

Matrix: Water

Analysis Batch: 53815

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	9.513		mg/L		95	90 - 110
Chloride	10.0	9.670		mg/L		97	90 - 110
Fluoride	10.0	10.22		mg/L		102	90 - 110
Sulfate	10.0	10.04		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-53815/7

Matrix: Water

Analysis Batch: 53815

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	9.366		mg/L		94	90 - 110	2	20
Chloride	10.0	9.632		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.14		mg/L		101	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-15005-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-53815/7

Matrix: Water

Analysis Batch: 53815

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	9.877		mg/L		99	90 - 110	2	20

Lab Sample ID: LLCS 860-53815/5

Matrix: Water

Analysis Batch: 53815

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	0.5694		mg/L		114	50 - 150		
Chloride	0.500	0.7488		mg/L		150	50 - 150		
Fluoride	0.500	0.4229	J	mg/L		85	50 - 150		
Sulfate	0.500	0.5241		mg/L		105	50 - 150		

Lab Sample ID: MB 860-53816/3

Matrix: Water

Analysis Batch: 53816

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	mg/L			05/20/22 12:01	1
Nitrite as N	<0.0293	U	0.100	mg/L			05/20/22 12:01	1

Lab Sample ID: LCS 860-53816/6

Matrix: Water

Analysis Batch: 53816

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	9.683		mg/L		97	80 - 120		
Nitrite as N	5.00	5.375		mg/L		108	80 - 120		

Lab Sample ID: LCSD 860-53816/7

Matrix: Water

Analysis Batch: 53816

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	9.526		mg/L		95	80 - 120	2	20
Nitrite as N	5.00	4.871		mg/L		97	80 - 120	10	20

Lab Sample ID: LLCS 860-53816/5

Matrix: Water

Analysis Batch: 53816

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	0.4396		mg/L		88	50 - 150		
Nitrite as N	0.500	0.5080		mg/L		102	50 - 150		

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QC Sample Results

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

Job ID: 880-15005-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-53764/1-B

Matrix: Water

Analysis Batch: 54519

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53886

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.05217	J	0.200	0.0293 mg/L		05/21/22 09:48	05/25/22 23:12	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		05/21/22 09:48	05/25/22 23:12	1
Potassium	<0.107	U	0.500	0.107 mg/L		05/21/22 09:48	05/25/22 23:12	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		05/21/22 09:48	05/25/22 23:12	1

Lab Sample ID: MB 860-53886/1-A

Matrix: Water

Analysis Batch: 54519

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53886

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		05/21/22 09:48	05/25/22 21:09	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		05/21/22 09:48	05/25/22 21:09	1
Potassium	<0.107	U	0.500	0.107 mg/L		05/21/22 09:48	05/25/22 21:09	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		05/21/22 09:48	05/25/22 21:09	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		05/21/22 09:48	05/25/22 21:09	1

Lab Sample ID: MB 860-53886/1-A

Matrix: Water

Analysis Batch: 54713

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53886

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<0.0667	U	0.500	0.0667 mg/L		05/21/22 09:48	05/26/22 17:19	1

Lab Sample ID: LCS 860-53764/2-B

Matrix: Water

Analysis Batch: 54519

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.66		mg/L		103	85 - 115
Magnesium	25.0	26.40		mg/L		106	85 - 115
Potassium	10.0	10.27		mg/L		103	85 - 115
SiO2	21.4	21.11		mg/L		99	85 - 115

Lab Sample ID: LCS 860-53886/2-A

Matrix: Water

Analysis Batch: 54519

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.65		mg/L		99	85 - 115
Magnesium	25.0	25.09		mg/L		100	85 - 115
Potassium	10.0	9.784		mg/L		98	85 - 115
Sodium	25.0	24.72		mg/L		99	85 - 115
SiO2	21.4	20.51		mg/L		96	85 - 115

Lab Sample ID: LCS 860-53886/2-A

Matrix: Water

Analysis Batch: 54713

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	25.0	25.38		mg/L		102	85 - 115

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QC Sample Results

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

Job ID: 880-15005-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCSD 860-53764/3-B
Matrix: Water
Analysis Batch: 54519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 53886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Calcium	25.0	25.80		mg/L		103	85 - 115	1		20
Magnesium	25.0	26.56		mg/L		106	85 - 115	1		20
Potassium	10.0	10.26		mg/L		103	85 - 115	0		20
Sodium	25.0	26.75		mg/L		107	85 - 115	0		20

Lab Sample ID: LCSD 860-53886/3-A
Matrix: Water
Analysis Batch: 54519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 53886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Calcium	25.0	24.61		mg/L		98	85 - 115	0		20
Magnesium	25.0	25.10		mg/L		100	85 - 115	0		20
Potassium	10.0	9.802		mg/L		98	85 - 115	0		20
Sodium	25.0	24.73		mg/L		99	85 - 115	0		20
SiO2	21.4	20.51		mg/L		96	85 - 115	0		20

Lab Sample ID: LCSD 860-53886/3-A
Matrix: Water
Analysis Batch: 54713

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 53886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Sodium	25.0	25.46		mg/L		102	85 - 115	0		20

Lab Sample ID: LLCS 860-53886/4-A
Matrix: Water
Analysis Batch: 54519

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 53886

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Calcium	0.200	0.1862	J	mg/L		93	50 - 150			
Magnesium	0.200	0.1918	J	mg/L		96	50 - 150			
Potassium	0.500	0.3985	J	mg/L		80	50 - 150			
Sodium	0.500	0.4905	J	mg/L		98	50 - 150			
SiO2	1.07	1.031	J	mg/L		96	50 - 150			

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-53858/3
Matrix: Water
Analysis Batch: 53858

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

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	mg/L			05/20/22 11:43	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			05/20/22 11:43	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			05/20/22 11:43	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			05/20/22 11:43	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			05/20/22 11:43	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-15005-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 860-53858/4

Matrix: Water

Analysis Batch: 53858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	262.7		mg/L		105	85 - 115

Lab Sample ID: LCSD 860-53858/5

Matrix: Water

Analysis Batch: 53858

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	262.3		mg/L		105	85 - 115	0	20

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

Lab Sample ID: MB 860-53814/1

Matrix: Water

Analysis Batch: 53814

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	mg/L			05/20/22 13:07	1

Lab Sample ID: LCS 860-53814/2

Matrix: Water

Analysis Batch: 53814

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	1195		mg/L		120	80 - 120

Lab Sample ID: LCSD 860-53814/3

Matrix: Water

Analysis Batch: 53814

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	1151		mg/L		115	80 - 120	4	10

Lab Sample ID: LLCS 860-53814/4

Matrix: Water

Analysis Batch: 53814

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	7.000		mg/L		140	50 - 150

Lab Sample ID: 880-15005-1 DU

Matrix: Water

Analysis Batch: 53814

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	1040		1095		mg/L		5	10

Eurofins Midland

QC Association Summary

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

Job ID: 880-15005-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 53717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total/NA	Water	8260C	
MB 860-53717/10	Method Blank	Total/NA	Water	8260C	
LCS 860-53717/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-53717/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 53815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total/NA	Water	300.0	
MB 860-53815/3	Method Blank	Total/NA	Water	300.0	
LCS 860-53815/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-53815/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-53815/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 53816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total/NA	Water	300.0	
MB 860-53816/3	Method Blank	Total/NA	Water	300.0	
LCS 860-53816/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-53816/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-53816/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Filtration Batch: 53764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-53764/1-B	Method Blank	Total Recoverable	Water	Filtration	
LCS 860-53764/2-B	Lab Control Sample	Total Recoverable	Water	Filtration	
LCSD 860-53764/3-B	Lab Control Sample Dup	Total Recoverable	Water	Filtration	

Prep Batch: 53886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-53764/1-B	Method Blank	Total Recoverable	Water	200.7	53764
MB 860-53886/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-53764/2-B	Lab Control Sample	Total Recoverable	Water	200.7	53764
LCS 860-53886/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-53764/3-B	Lab Control Sample Dup	Total Recoverable	Water	200.7	53764
LCSD 860-53886/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-53886/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 54519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	53886
880-15005-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	53886
MB 860-53764/1-B	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	53886
MB 860-53886/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	53886
LCS 860-53764/2-B	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	53886
LCS 860-53886/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	53886
LCSD 860-53764/3-B	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	53886
LCSD 860-53886/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	53886

Eurofins Midland

QC Association Summary

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

Job ID: 880-15005-1
SDG: Hobbs NM

Metals (Continued)

Analysis Batch: 54519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-53886/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	53886

Analysis Batch: 54713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	53886
MB 860-53886/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	53886
LCS 860-53886/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	53886
LCSD 860-53886/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	53886

General Chemistry

Analysis Batch: 53814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-53814/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-53814/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-53814/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-53814/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-15005-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 53831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 53858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-53858/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-53858/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-53858/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 54763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15005-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-15005-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-15005-1
Date Collected: 05/19/22 10:30 Matrix: Water
Date Received: 05/19/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	53717	05/20/22 15:48	NA	XEN STF
Total/NA	Analysis	300.0		1	53815	05/20/22 13:56	ANP	XEN STF
Total/NA	Analysis	300.0		1	53816	05/20/22 13:56	A1S	XEN STF
Total Recoverable	Prep	200.7			53886	05/21/22 09:48	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	54519	05/25/22 22:14	AV	XEN STF
Total Recoverable	Prep	200.7			53886	05/21/22 09:48	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	54519	05/25/22 23:56	AV	XEN STF
Total Recoverable	Prep	200.7			53886	05/21/22 09:48	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	54713	05/26/22 18:10	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	54763	05/27/22 13:55	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	53858	05/20/22 12:45	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	53814	05/20/22 13:07	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	53831	05/20/22 14:47	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 Hobbs, NM - 03B1417001

Job ID: 880-15005-1
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
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: 880-15005-1
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

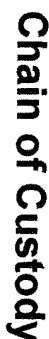
Sample Summary

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

Job ID: 880-15005-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15005-1	Levey Well	Water	05/19/22 10:30	05/19/22 15:40

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



Work Order No:

15005

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

[illegible]

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions	Cations	pH	Alkalinity	TDS	Sample Comments
Levey Well	GW	5-19-22	1030	—	7	X	X	X	X	X	X	24hr
880-15005 Chain of Custody  MP6 5-19-22 4P												

880-15005 Chain of Custody



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

produce; signature of this document and returning undated 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
		8/19/22			
		15:40			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15005-1

SDG Number: Hobbs NM

Login Number: 15005

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: 880-15005-1

SDG Number: Hobbs NM

Login Number: 15005

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 05/20/22 09:34 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15004-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:

5/26/2022 1:33:45 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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

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

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

Laboratory Job ID: 880-15004-1

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Definitions/Glossary

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

Job ID: 880-15004-1

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

General Chemistry

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

Glossary

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

Definitions/Glossary

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

Job ID: 880-15004-1

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-15004-1

Job ID: 880-15004-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-15004-1

Receipt

The samples were received on 5/19/2022 3:40 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 5.7°C

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (880-15004-2). Elevated reporting limits (RLs) are provided.

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

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 860-53816 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

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Client Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15004-1

Date Collected: 05/19/22 11:25

Matrix: Water

Date Received: 05/19/22 15:40

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			05/20/22 14:47	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/20/22 14:47	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/20/22 14:47	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/20/22 14:47	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/20/22 14:47	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/20/22 14:47	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/20/22 14:47	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/20/22 14:47	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/20/22 14:47	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/20/22 14:47	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/20/22 14:47	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/20/22 14:47	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/20/22 14:47	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/20/22 14:47	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/20/22 14:47	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/20/22 14:47	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/20/22 14:47	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/20/22 14:47	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/20/22 14:47	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/20/22 14:47	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/20/22 14:47	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/20/22 14:47	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/20/22 14:47	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/20/22 14:47	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/20/22 14:47	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/20/22 14:47	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/20/22 14:47	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/20/22 14:47	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/20/22 14:47	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/20/22 14:47	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/20/22 14:47	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 14:47	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/20/22 14:47	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/20/22 14:47	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/20/22 14:47	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/20/22 14:47	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/20/22 14:47	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/20/22 14:47	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/20/22 14:47	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/20/22 14:47	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/20/22 14:47	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/20/22 14:47	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/20/22 14:47	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/20/22 14:47	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/20/22 14:47	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/20/22 14:47	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/20/22 14:47	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/20/22 14:47	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			05/20/22 14:47	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15004-1

Date Collected: 05/19/22 11:25

Matrix: Water

Date Received: 05/19/22 15:40

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			05/20/22 14:47	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 14:47	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 14:47	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/20/22 14:47	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/20/22 14:47	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/20/22 14:47	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/20/22 14:47	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/20/22 14:47	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			05/20/22 14:47	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			05/20/22 14:47	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/20/22 14:47	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			05/20/22 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		05/20/22 14:47	1
Dibromofluoromethane (Surr)	100		75 - 131		05/20/22 14:47	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/20/22 14:47	1
Toluene-d8 (Surr)	99		80 - 117		05/20/22 14:47	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			05/20/22 15:19	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		05/20/22 12:14	05/20/22 13:46	1
Diesel Range Organics (Over C10-C28)	<0.926	U	4.69	0.926 mg/L		05/20/22 12:14	05/20/22 13:46	1
Oil Range Organics (Over C28-C36)	<0.894	U	4.69	0.894 mg/L		05/20/22 12:14	05/20/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135			05/20/22 12:14	05/20/22 13:46	1
o-Terphenyl	102		70 - 135			05/20/22 12:14	05/20/22 13:46	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		0.500	0.200 mg/L			05/20/22 13:05	1
Nitrate as N	0.0743	J F1	0.100	0.0391 mg/L			05/20/22 13:05	1
Fluoride	0.643	F1	0.500	0.100 mg/L			05/20/22 13:05	1
Nitrite as N	0.199	F1	0.100	0.0293 mg/L			05/20/22 13:05	1
Sulfate	41.0		0.500	0.109 mg/L			05/20/22 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	262		4.00	4.00 mg/L			05/20/22 12:10	1
Bicarbonate Alkalinity as CaCO3	262		4.00	4.00 mg/L			05/20/22 12:10	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/20/22 12:10	1
Carbon dioxide	272			mg/L			05/24/22 16:57	1
Carbon Dioxide, Free	41.5			mg/L			05/24/22 16:57	1
pH	7.1	HF		SU			05/20/22 14:44	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15004-1

Date Collected: 05/19/22 11:25

Matrix: Water

Date Received: 05/19/22 15:40

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	20.3	HF		Degrees C			05/20/22 14:44	1
Sulfide	0.600	J	5.00	0.495 mg/L			05/25/22 12:50	1

Client Sample ID: MW-2

Lab Sample ID: 880-15004-2

Date Collected: 05/19/22 12:20

Matrix: Water

Date Received: 05/19/22 15:40

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0329		0.00100	0.000214 mg/L			05/20/22 15:07	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/20/22 15:07	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/20/22 15:07	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/20/22 15:07	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/20/22 15:07	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/20/22 15:07	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/20/22 15:07	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/20/22 15:07	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/20/22 15:07	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/20/22 15:07	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/20/22 15:07	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/20/22 15:07	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/20/22 15:07	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/20/22 15:07	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/20/22 15:07	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/20/22 15:07	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/20/22 15:07	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/20/22 15:07	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/20/22 15:07	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/20/22 15:07	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/20/22 15:07	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/20/22 15:07	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/20/22 15:07	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/20/22 15:07	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/20/22 15:07	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/20/22 15:07	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/20/22 15:07	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/20/22 15:07	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/20/22 15:07	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/20/22 15:07	1
Ethylbenzene	0.0505		0.00100	0.000515 mg/L			05/20/22 15:07	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 15:07	1
Isopropylbenzene	0.0196		0.00100	0.000161 mg/L			05/20/22 15:07	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/20/22 15:07	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/20/22 15:07	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/20/22 15:07	1
n-Butylbenzene	0.00159		0.00100	0.000286 mg/L			05/20/22 15:07	1
N-Propylbenzene	0.00593		0.00100	0.000179 mg/L			05/20/22 15:07	1
o-Xylene	0.0254		0.00100	0.000192 mg/L			05/20/22 15:07	1
p-Cymene (p-Isopropyltoluene)	0.00163		0.00100	0.000233 mg/L			05/20/22 15:07	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/20/22 15:07	1

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Client Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-15004-2

Date Collected: 05/19/22 12:20

Matrix: Water

Date Received: 05/19/22 15:40

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/20/22 15:07	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/20/22 15:07	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/20/22 15:07	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/20/22 15:07	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/20/22 15:07	1
Toluene	0.00659		0.00100	0.000500 mg/L			05/20/22 15:07	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			05/20/22 15:07	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			05/20/22 15:07	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 15:07	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 15:07	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/20/22 15:07	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/20/22 15:07	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/20/22 15:07	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/20/22 15:07	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/20/22 15:07	1
1,2,4-Trimethylbenzene	0.0645		0.00100	0.000252 mg/L			05/20/22 15:07	1
1,3,5-Trimethylbenzene	0.0173		0.00100	0.000279 mg/L			05/20/22 15:07	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/20/22 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		05/20/22 15:07	1
Dibromofluoromethane (Surr)	97		75 - 131		05/20/22 15:07	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		05/20/22 15:07	1
Toluene-d8 (Surr)	99		80 - 117		05/20/22 15:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.367		0.0500	0.00165 mg/L			05/20/22 15:28	5
Xylenes, Total	0.407		0.0500	0.00165 mg/L			05/20/22 15:28	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		05/20/22 15:28	5
Dibromofluoromethane (Surr)	99		75 - 131		05/20/22 15:28	5
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/20/22 15:28	5
Toluene-d8 (Surr)	99		80 - 117		05/20/22 15:28	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.80	J	4.63	0.915 mg/L			05/20/22 15:19	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	1.80	J	4.63	0.915 mg/L		05/20/22 12:14	05/20/22 14:06	1
Diesel Range Organics (Over C10-C28)	<0.915	U	4.63	0.915 mg/L		05/20/22 12:14	05/20/22 14:06	1
Oil Range Organics (Over C28-C36)	<0.883	U	4.63	0.883 mg/L		05/20/22 12:14	05/20/22 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 135	05/20/22 12:14	05/20/22 14:06	1
o-Terphenyl	87		70 - 135	05/20/22 12:14	05/20/22 14:06	1

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Client Sample Results

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

Job ID: 880-15004-1

Client Sample ID: MW-2
Date Collected: 05/19/22 12:20
Date Received: 05/19/22 15:40

Lab Sample ID: 880-15004-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		0.500	0.200	mg/L			05/20/22 13:44	1
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			05/20/22 13:44	1
Fluoride	0.116	J	0.500	0.100	mg/L			05/20/22 13:44	1
Nitrite as N	0.373		0.100	0.0293	mg/L			05/20/22 13:44	1
Sulfate	118		0.500	0.109	mg/L			05/20/22 13:44	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1380		4.00	4.00	mg/L			05/20/22 12:35	1
Bicarbonate Alkalinity as CaCO3	1380		4.00	4.00	mg/L			05/20/22 12:35	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/20/22 12:35	1
Carbon dioxide	2950				mg/L			05/24/22 16:57	1
Carbon Dioxide, Free	1740				mg/L			05/24/22 16:57	1
pH	6.2	HF			SU			05/20/22 14:45	1
Temperature	20.5	HF			Degrees C			05/20/22 14:45	1
Sulfide	<0.495	U	5.00	0.495	mg/L			05/25/22 12:50	1

Surrogate Summary

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
860-26362-B-36 MS	Matrix Spike	95	97	94	98
880-15004-1	MW-1	96	100	101	99
880-15004-2	MW-2	96	97	100	99
880-15004-2 - DL	MW-2	97	99	99	99
LCS 860-53717/3	Lab Control Sample	98	97	95	97
LCSD 860-53717/4	Lab Control Sample Dup	96	97	96	97
MB 860-53717/10	Method Blank	100	98	98	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-15004-1	MW-1	91	102
880-15004-2	MW-2	80	87
LCS 860-53803/2-A	Lab Control Sample	109	91
LCSD 860-53803/3-A	Lab Control Sample Dup	108	90
MB 860-53803/1-A	Method Blank	85	91

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-53717/10

Matrix: Water

Analysis Batch: 53717

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			05/20/22 11:01	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/20/22 11:01	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/20/22 11:01	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/20/22 11:01	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/20/22 11:01	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/20/22 11:01	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/20/22 11:01	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/20/22 11:01	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/20/22 11:01	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/20/22 11:01	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/20/22 11:01	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/20/22 11:01	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/20/22 11:01	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/20/22 11:01	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/20/22 11:01	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/20/22 11:01	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/20/22 11:01	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/20/22 11:01	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/20/22 11:01	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/20/22 11:01	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/20/22 11:01	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/20/22 11:01	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/20/22 11:01	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/20/22 11:01	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/20/22 11:01	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/20/22 11:01	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/20/22 11:01	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/20/22 11:01	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/20/22 11:01	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/20/22 11:01	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/20/22 11:01	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 11:01	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/20/22 11:01	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/20/22 11:01	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/20/22 11:01	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/20/22 11:01	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/20/22 11:01	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/20/22 11:01	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/20/22 11:01	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/20/22 11:01	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/20/22 11:01	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/20/22 11:01	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/20/22 11:01	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/20/22 11:01	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/20/22 11:01	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/20/22 11:01	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/20/22 11:01	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/20/22 11:01	1

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QC Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-53717/10

Matrix: Water

Analysis Batch: 53717

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			05/20/22 11:01	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			05/20/22 11:01	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 11:01	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/20/22 11:01	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/20/22 11:01	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/20/22 11:01	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/20/22 11:01	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/20/22 11:01	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/20/22 11:01	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			05/20/22 11:01	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			05/20/22 11:01	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/20/22 11:01	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			05/20/22 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		05/20/22 11:01	1
Dibromofluoromethane (Surr)	98		75 - 131		05/20/22 11:01	1
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/20/22 11:01	1
Toluene-d8 (Surr)	98		80 - 117		05/20/22 11:01	1

Lab Sample ID: LCS 860-53717/3

Matrix: Water

Analysis Batch: 53717

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	0.05168		mg/L		103	66 - 142
Bromobenzene	0.0500	0.05009		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.05071		mg/L		101	60 - 140
Bromodichloromethane	0.0500	0.05138		mg/L		103	75 - 125
Bromoform	0.0500	0.05147		mg/L		103	75 - 125
Bromomethane	0.0500	0.05059		mg/L		101	60 - 140
2-Butanone	0.250	0.2409		mg/L		96	60 - 140
Carbon tetrachloride	0.0500	0.04576		mg/L		92	62 - 125
Chlorobenzene	0.0500	0.05167		mg/L		103	60 - 133
Chloroethane	0.0500	0.05382		mg/L		108	60 - 140
Chloroform	0.0500	0.05094		mg/L		102	70 - 130
Chloromethane	0.0500	0.05371		mg/L		107	60 - 140
2-Chlorotoluene	0.0500	0.04953		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04973		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05042		mg/L		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05189		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.05041		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04892		mg/L		98	59 - 125
1,2-Dibromoethane	0.0500	0.05001		mg/L		100	73 - 125
1,2-Dichlorobenzene	0.0500	0.05025		mg/L		101	75 - 125
1,3-Dichlorobenzene	0.0500	0.05117		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.04977		mg/L		100	75 - 125
Dichlorodifluoromethane	0.0500	0.05202		mg/L		104	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-53717/3

Matrix: Water

Analysis Batch: 53717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04879		mg/L		98	72 - 125
1,2-Dichloroethane	0.0500	0.04891		mg/L		98	68 - 127
1,1-Dichloroethene	0.0500	0.05122		mg/L		102	59 - 172
1,2-Dichloropropane	0.0500	0.05159		mg/L		103	74 - 125
1,3-Dichloropropane	0.0500	0.04870		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.05341		mg/L		107	75 - 125
1,1-Dichloropropene	0.0500	0.05057		mg/L		101	75 - 125
Ethylbenzene	0.0500	0.05147		mg/L		103	75 - 125
Hexachlorobutadiene	0.0500	0.05109		mg/L		102	75 - 125
Isopropylbenzene	0.0500	0.05261		mg/L		105	75 - 125
Methylene Chloride	0.0500	0.04793		mg/L		96	75 - 125
m,p-Xylenes	0.0500	0.05232		mg/L		105	75 - 125
MTBE	0.0500	0.04832		mg/L		97	65 - 135
Naphthalene	0.0500	0.05390		mg/L		108	70 - 130
n-Butylbenzene	0.0500	0.05051		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.04997		mg/L		100	75 - 125
o-Xylene	0.0500	0.05123		mg/L		102	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05146		mg/L		103	75 - 125
sec-Butylbenzene	0.0500	0.05124		mg/L		102	75 - 125
Styrene	0.0500	0.05316		mg/L		106	75 - 125
tert-Butylbenzene	0.0500	0.05136		mg/L		103	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05183		mg/L		104	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04571		mg/L		91	74 - 125
Tetrachloroethene	0.0500	0.05275		mg/L		106	71 - 125
Toluene	0.0500	0.05060		mg/L		101	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05007		mg/L		100	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04951		mg/L		99	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05415		mg/L		108	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05178		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05150		mg/L		103	75 - 125
1,1,2-Trichloroethane	0.0500	0.04850		mg/L		97	75 - 127
Trichloroethene	0.0500	0.05310		mg/L		106	62 - 137
Trichlorofluoromethane	0.0500	0.05859		mg/L		117	60 - 140
1,2,3-Trichloropropane	0.0500	0.04470		mg/L		89	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05012		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05021		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.05439		mg/L		109	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-53717/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 53717

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05282		mg/L		106	66 - 142	2	25
Bromobenzene	0.0500	0.05162		mg/L		103	75 - 125	3	25
Bromochloromethane	0.0500	0.05177		mg/L		104	60 - 140	2	25
Bromodichloromethane	0.0500	0.05302		mg/L		106	75 - 125	3	25
Bromoform	0.0500	0.05675		mg/L		113	75 - 125	10	25
Bromomethane	0.0500	0.05060		mg/L		101	60 - 140	0	25
2-Butanone	0.250	0.2668		mg/L		107	60 - 140	10	25
Carbon tetrachloride	0.0500	0.04622		mg/L		92	62 - 125	1	25
Chlorobenzene	0.0500	0.05364		mg/L		107	60 - 133	4	25
Chloroethane	0.0500	0.05269		mg/L		105	60 - 140	2	25
Chloroform	0.0500	0.05242		mg/L		105	70 - 130	3	25
Chloromethane	0.0500	0.05027		mg/L		101	60 - 140	7	25
2-Chlorotoluene	0.0500	0.05059		mg/L		101	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05154		mg/L		103	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05160		mg/L		103	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05364		mg/L		107	74 - 125	3	25
Dibromochloromethane	0.0500	0.05422		mg/L		108	73 - 125	7	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05394		mg/L		108	59 - 125	10	25
1,2-Dibromoethane	0.0500	0.05359		mg/L		107	73 - 125	7	25
1,2-Dichlorobenzene	0.0500	0.05154		mg/L		103	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.05127		mg/L		103	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05089		mg/L		102	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.04920		mg/L		98	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.04958		mg/L		99	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.05121		mg/L		102	68 - 127	5	25
1,1-Dichloroethene	0.0500	0.05209		mg/L		104	59 - 172	2	25
1,2-Dichloropropane	0.0500	0.05294		mg/L		106	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.05193		mg/L		104	75 - 125	6	25
2,2-Dichloropropane	0.0500	0.05489		mg/L		110	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.05111		mg/L		102	75 - 125	1	25
Ethylbenzene	0.0500	0.05380		mg/L		108	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05262		mg/L		105	75 - 125	3	25
Isopropylbenzene	0.0500	0.05520		mg/L		110	75 - 125	5	25
Methylene Chloride	0.0500	0.05008		mg/L		100	75 - 125	4	25
m,p-Xylenes	0.0500	0.05328		mg/L		107	75 - 125	2	25
MTBE	0.0500	0.05083		mg/L		102	65 - 135	5	25
Naphthalene	0.0500	0.05797		mg/L		116	70 - 130	7	25
n-Butylbenzene	0.0500	0.05203		mg/L		104	75 - 125	3	25
N-Propylbenzene	0.0500	0.05126		mg/L		103	75 - 125	3	25
o-Xylene	0.0500	0.05380		mg/L		108	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05250		mg/L		105	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05276		mg/L		106	75 - 125	3	25
Styrene	0.0500	0.05458		mg/L		109	75 - 125	3	25
tert-Butylbenzene	0.0500	0.05237		mg/L		105	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.05343		mg/L		107	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05058		mg/L		101	74 - 125	10	25
Tetrachloroethene	0.0500	0.05440		mg/L		109	71 - 125	3	25
Toluene	0.0500	0.05255		mg/L		105	59 - 139	4	25

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QC Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-53717/4

Matrix: Water

Analysis Batch: 53717

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	0.05052		mg/L		101	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.05302		mg/L		106	66 - 125	7	25
1,2,3-Trichlorobenzene	0.0500	0.05788		mg/L		116	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.05383		mg/L		108	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.05239		mg/L		105	75 - 125	2	25
1,1,2-Trichloroethane	0.0500	0.05268		mg/L		105	75 - 127	8	25
Trichloroethene	0.0500	0.05475		mg/L		109	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05438		mg/L		109	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.05271		mg/L		105	75 - 125	16	25
1,2,4-Trimethylbenzene	0.0500	0.05150		mg/L		103	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05105		mg/L		102	60 - 140	2	25
Vinyl chloride	0.0500	0.05219		mg/L		104	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	97		80 - 117

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

Lab Sample ID: MB 860-53803/1-A

Matrix: Water

Analysis Batch: 53752

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53803

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		05/20/22 12:14	05/20/22 14:45	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		05/20/22 12:14	05/20/22 14:45	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		05/20/22 12:14	05/20/22 14:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135	05/20/22 12:14	05/20/22 14:45	1
o-Terphenyl	91		70 - 135	05/20/22 12:14	05/20/22 14:45	1

Lab Sample ID: LCS 860-53803/2-A

Matrix: Water

Analysis Batch: 53752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	100	104.3		mg/L		104	70 - 135
Diesel Range Organics (Over C10-C28)	100	90.12		mg/L		90	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 135
o-Terphenyl	91		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-53803/3-A

Matrix: Water

Analysis Batch: 53752

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53803

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	107.0		mg/L		107	70 - 135	3	35
Diesel Range Organics (Over C10-C28)	100	92.16		mg/L		92	70 - 135	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 135						
o-Terphenyl	90		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-53815/3

Matrix: Water

Analysis Batch: 53815

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			05/20/22 12:01	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/20/22 12:01	1
Sulfate	<0.109	U	0.500	0.109 mg/L			05/20/22 12:01	1

Lab Sample ID: LCS 860-53815/6

Matrix: Water

Analysis Batch: 53815

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	9.670		mg/L		97	90 - 110
Fluoride	10.0	10.22		mg/L		102	90 - 110
Sulfate	10.0	10.04		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-53815/7

Matrix: Water

Analysis Batch: 53815

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	9.632		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.14		mg/L		101	90 - 110	1	20
Sulfate	10.0	9.877		mg/L		99	90 - 110	2	20

Lab Sample ID: LLCS 860-53815/5

Matrix: Water

Analysis Batch: 53815

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	0.7488		mg/L		150	50 - 150
Fluoride	0.500	0.4229	J	mg/L		85	50 - 150
Sulfate	0.500	0.5241		mg/L		105	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-15004-1 MS

Matrix: Water

Analysis Batch: 53815

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	106		10.0	115.1	4	mg/L		92	90 - 110
Fluoride	0.643	F1	10.0	10.89		mg/L		102	90 - 110
Sulfate	41.0		10.0	50.79	4	mg/L		98	90 - 110

Lab Sample ID: 880-15004-1 MSD

Matrix: Water

Analysis Batch: 53815

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	106		10.0	115.5	4	mg/L		95	90 - 110	0	20
Fluoride	0.643	F1	10.0	10.91		mg/L		103	90 - 110	0	20
Sulfate	41.0		10.0	50.83	4	mg/L		98	90 - 110	0	20

Lab Sample ID: MB 860-53816/3

Matrix: Water

Analysis Batch: 53816

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			05/20/22 12:01	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/20/22 12:01	1

Lab Sample ID: LCS 860-53816/6

Matrix: Water

Analysis Batch: 53816

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	9.683		mg/L		97	80 - 120
Nitrite as N	5.00	5.375		mg/L		108	80 - 120

Lab Sample ID: LCSD 860-53816/7

Matrix: Water

Analysis Batch: 53816

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	9.526		mg/L		95	80 - 120	2	20
Nitrite as N	5.00	4.871		mg/L		97	80 - 120	10	20

Lab Sample ID: LLCS 860-53816/5

Matrix: Water

Analysis Batch: 53816

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	0.4396		mg/L		88	50 - 150
Nitrite as N	0.500	0.5080		mg/L		102	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-15004-1 MS

Matrix: Water

Analysis Batch: 53816

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0743	J F1	10.0	9.688		mg/L		96	80 - 120
Nitrite as N	0.199	F1	2.50	2.880		mg/L		107	80 - 120

Lab Sample ID: 880-15004-1 MSD

Matrix: Water

Analysis Batch: 53816

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.0743	J F1	10.0	9.722		mg/L		96	80 - 120	0	15
Nitrite as N	0.199	F1	2.50	2.910		mg/L		108	80 - 120	1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-53858/3

Matrix: Water

Analysis Batch: 53858

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			05/20/22 11:43	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/20/22 11:43	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/20/22 11:43	1

Lab Sample ID: LCS 860-53858/4

Matrix: Water

Analysis Batch: 53858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	262.7		mg/L		105	85 - 115

Lab Sample ID: LCSD 860-53858/5

Matrix: Water

Analysis Batch: 53858

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	262.3		mg/L		105	85 - 115	0	20

Lab Sample ID: 880-15004-1 DU

Matrix: Water

Analysis Batch: 53858

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	262		271.5		mg/L		4	20
Bicarbonate Alkalinity as CaCO3	262		271.5		mg/L		4	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

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QC Sample Results

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

Job ID: 880-15004-1

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-54572/1							Client Sample ID: Method Blank			
Matrix: Water							Prep Type: Total/NA			
Analysis Batch: 54572										
Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac	
Sulfide	<0.495	U	5.00	0.495	mg/L			05/25/22 12:50		1

Lab Sample ID: LCS 860-54572/2							Client Sample ID: Lab Control Sample			
Matrix: Water							Prep Type: Total/NA			
Analysis Batch: 54572										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Sulfide	50.0	46.40		mg/L		93	80 - 120			

Lab Sample ID: LCSD 860-54572/3							Client Sample ID: Lab Control Sample Dup			
Matrix: Water							Prep Type: Total/NA			
Analysis Batch: 54572										
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	0	20	

QC Association Summary

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 53717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15004-1	MW-1	Total/NA	Water	8260C	
880-15004-2	MW-2	Total/NA	Water	8260C	
880-15004-2 - DL	MW-2	Total/NA	Water	8260C	
MB 860-53717/10	Method Blank	Total/NA	Water	8260C	
LCS 860-53717/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-53717/4	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
880-15004-1	MW-1	Total/NA	Water	8015 NM	
880-15004-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 53752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-53803/1-A	Method Blank	Total/NA	Water	8015B NM	53803
LCS 860-53803/2-A	Lab Control Sample	Total/NA	Water	8015B NM	53803
LCSD 860-53803/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	53803

Analysis Batch: 53755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15004-1	MW-1	Total/NA	Water	8015B NM	53803
880-15004-2	MW-2	Total/NA	Water	8015B NM	53803

Prep Batch: 53803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15004-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-15004-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-53803/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-53803/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-53803/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 53815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15004-1	MW-1	Total/NA	Water	300.0	
880-15004-2	MW-2	Total/NA	Water	300.0	
MB 860-53815/3	Method Blank	Total/NA	Water	300.0	
LCS 860-53815/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-53815/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-53815/5	Lab Control Sample	Total/NA	Water	300.0	
880-15004-1 MS	MW-1	Total/NA	Water	300.0	
880-15004-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 53816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15004-1	MW-1	Total/NA	Water	300.0	
880-15004-2	MW-2	Total/NA	Water	300.0	
MB 860-53816/3	Method Blank	Total/NA	Water	300.0	
LCS 860-53816/6	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Job ID: 880-15004-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 53816 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-53816/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-53816/5	Lab Control Sample	Total/NA	Water	300.0	
880-15004-1 MS	MW-1	Total/NA	Water	300.0	
880-15004-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 53831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15004-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-15004-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 53858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15004-1	MW-1	Total/NA	Water	SM 2320B	
880-15004-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-53858/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-53858/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-53858/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-15004-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 54253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15004-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-15004-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 54572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15004-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-15004-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-54572/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-54572/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-54572/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	

Eurofins Midland

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-15004-1

Client Sample ID: MW-1

Lab Sample ID: 880-15004-1

Date Collected: 05/19/22 11:25

Matrix: Water

Date Received: 05/19/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	53717	05/20/22 14:47	NA	XEN STF
Total/NA	Analysis	8015 NM		1	50664	05/20/22 15:19	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			53803	05/20/22 12:14	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	53755	05/20/22 13:46	SAR	XEN STF
Total/NA	Analysis	300.0		1	53815	05/20/22 13:05	ANP	XEN STF
Total/NA	Analysis	300.0		1	53816	05/20/22 13:05	A1S	XEN STF
Total/NA	Analysis	SM 2320B		1	53858	05/20/22 12:10	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	54253	05/24/22 16:57	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	53831	05/20/22 14:44	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	54572	05/25/22 12:50	YGG	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-15004-2

Date Collected: 05/19/22 12:20

Matrix: Water

Date Received: 05/19/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	53717	05/20/22 15:07	NA	XEN STF
Total/NA	Analysis	8260C	DL	5	53717	05/20/22 15:28	NA	XEN STF
Total/NA	Analysis	8015 NM		1	50664	05/20/22 15:19	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			53803	05/20/22 12:14	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	53755	05/20/22 14:06	SAR	XEN STF
Total/NA	Analysis	300.0		1	53815	05/20/22 13:44	ANP	XEN STF
Total/NA	Analysis	300.0		1	53816	05/20/22 13:44	A1S	XEN STF
Total/NA	Analysis	SM 2320B		1	53858	05/20/22 12:35	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	54253	05/24/22 16:57	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	53831	05/20/22 14:45	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	54572	05/25/22 12:50	YGG	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: South Hobbs - 03B1417002

Job ID: 880-15004-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

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

Job ID: 880-15004-1

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

Protocol References:

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

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-15004-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15004-1	MW-1	Water	05/19/22 11:25	05/19/22 15:40
880-15004-2	MW-2	Water	05/19/22 12:20	05/19/22 15:40

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Chain of Custody

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

Work Order No: 15004

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:	jennings@ensolum.com

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

Project Name:	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):	59.57	Thermometer ID	TTC	
Received Intact:	Yes ☒ No ☐	Correction Factor:	-1.2	
Cooler Custody Seals:	Yes ☐ No ☒ (N/A)	Total Containers:		
Sample Custody Seals:	Yes ☐ No ☒ (N/A)			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
MMW-1	GW	5-19-22	1125	
MMW-2	GW	5-19-22	1220	

Number of Containers	Dissolved Carbon Dioxide 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
7	X	X	X	X	X	X
	X	X	X	X	X	X

CUSTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY
www.essvial.com 800-233-8425



880-15004 Chain of Custody

Date: 5-19-22
Signature: [Signature]

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[Signature]	[Signature]	5/19/22			
		15:40			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15004-1

Login Number: 15004

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: 880-15004-1

Login Number: 15004

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 05/20/22 09:34 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15231-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:

6/24/2022 8:29:39 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-15231-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-15231-1

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

HPLC/IC

Qualifier	Qualifier Description
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
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
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)

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-15231-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-15231-1
SDG: Hobbs NM

Job ID: 880-15231-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-15231-1**

Receipt

The sample was received on 5/26/2022 3:00 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 4.0°C

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-54857 recovered outside control limits for the following analytes: 2,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Chloride and Sulfate analytical batch 860-54742 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 following sample was diluted due to the nature of the sample matrix: Levey Well (880-15231-1). Elevated reporting limits (RLs) are provided.

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

Metals

Method 200.7: The method blank for preparation batch 860-57353 and analytical batch 860-58126 contained calcium 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 200.7: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-57353 and analytical batch 860-58126 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 200.7: The continuing calibration blank (CCB) for analytical batch 860-57607 contained calcium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-15231-1

Date Collected: 05/26/22 09:55

Matrix: Water

Date Received: 05/26/22 15:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00431		0.00100	0.000214	mg/L		05/28/22 18:19	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		05/28/22 18:19	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		05/28/22 18:19	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		05/28/22 18:19	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		05/28/22 18:19	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		05/28/22 18:19	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		05/28/22 18:19	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		05/28/22 18:19	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		05/28/22 18:19	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		05/28/22 18:19	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		05/28/22 18:19	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		05/28/22 18:19	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		05/28/22 18:19	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		05/28/22 18:19	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		05/28/22 18:19	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		05/28/22 18:19	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		05/28/22 18:19	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		05/28/22 18:19	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		05/28/22 18:19	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		05/28/22 18:19	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		05/28/22 18:19	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		05/28/22 18:19	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		05/28/22 18:19	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		05/28/22 18:19	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		05/28/22 18:19	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		05/28/22 18:19	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		05/28/22 18:19	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		05/28/22 18:19	1
2,2-Dichloropropane	<0.000360	U *	0.00500	0.000360	mg/L		05/28/22 18:19	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		05/28/22 18:19	1
Ethylbenzene	0.0171		0.00100	0.000515	mg/L		05/28/22 18:19	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		05/28/22 18:19	1
Isopropylbenzene	0.00840		0.00100	0.000161	mg/L		05/28/22 18:19	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		05/28/22 18:19	1
m,p-Xylenes	0.0679		0.0100	0.000330	mg/L		05/28/22 18:19	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		05/28/22 18:19	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		05/28/22 18:19	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		05/28/22 18:19	1
N-Propylbenzene	0.00391		0.00100	0.000179	mg/L		05/28/22 18:19	1
o-Xylene	0.0109		0.00100	0.000192	mg/L		05/28/22 18:19	1
p-Cymene (p-Isopropyltoluene)	0.000918	J	0.00100	0.000233	mg/L		05/28/22 18:19	1
sec-Butylbenzene	0.00153		0.00100	0.000199	mg/L		05/28/22 18:19	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		05/28/22 18:19	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		05/28/22 18:19	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		05/28/22 18:19	1
1,1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		05/28/22 18:19	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		05/28/22 18:19	1
Toluene	0.0360		0.00100	0.000500	mg/L		05/28/22 18:19	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		05/28/22 18:19	1

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Client Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-15231-1

Date Collected: 05/26/22 09:55

Matrix: Water

Date Received: 05/26/22 15:00

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			05/28/22 18:19	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 18:19	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 18:19	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/28/22 18:19	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/28/22 18:19	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/28/22 18:19	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/28/22 18:19	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/28/22 18:19	1
1,2,4-Trimethylbenzene	0.0182		0.00100	0.000252 mg/L			05/28/22 18:19	1
1,3,5-Trimethylbenzene	0.00580		0.00100	0.000279 mg/L			05/28/22 18:19	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/28/22 18:19	1
Xylenes, Total	0.0788		0.0100	0.000330 mg/L			05/28/22 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		05/28/22 18:19	1
Dibromofluoromethane (Surr)	98		75 - 131		05/28/22 18:19	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/28/22 18:19	1
Toluene-d8 (Surr)	98		80 - 117		05/28/22 18:19	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.606		0.500	0.0711 mg/L			05/28/22 02:59	1
Nitrate as N	0.0986	J	0.100	0.0391 mg/L			05/28/22 02:59	1
Chloride	212		0.500	0.200 mg/L			05/28/22 02:59	1
Fluoride	0.714		0.500	0.100 mg/L			05/28/22 02:59	1
Sulfate	41.2		0.500	0.109 mg/L			05/28/22 02:59	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	2.77		1.00	0.293 mg/L			05/28/22 03:12	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	215	^2	10.0	1.47 mg/L		06/17/22 09:30	06/18/22 01:40	50
Magnesium	38.7		0.200	0.0500 mg/L		06/17/22 09:30	06/22/22 11:50	1
Potassium	2.93		0.500	0.107 mg/L		06/17/22 09:30	06/17/22 23:44	1
Sodium	66.7		0.500	0.0667 mg/L		06/17/22 09:30	06/17/22 23:44	1
SiO2	62.7		1.07	0.0781 mg/L		06/17/22 09:30	06/17/22 23:44	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-11.5			%			06/10/22 11:09	1
Alkalinity	683		4.00	4.00 mg/L			05/27/22 18:44	1
Bicarbonate Alkalinity as CaCO3	683		4.00	4.00 mg/L			05/27/22 18:44	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/27/22 18:44	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			05/27/22 18:44	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			05/27/22 18:44	1
Total Dissolved Solids	1240		10.0	10.0 mg/L			05/27/22 17:37	1
pH	6.2	HF		SU			05/27/22 18:03	1
Temperature	18.0	HF		Celsius			05/27/22 18:03	1

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Surrogate Summary

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

Job ID: 880-15231-1
SDG: Hobbs NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
860-26923-D-4 MS	Matrix Spike	100	99	100	98
860-26923-D-4 MSD	Matrix Spike Duplicate	97	101	101	99
880-15231-1	Levey Well	98	98	101	98
LCS 860-54857/3	Lab Control Sample	97	102	105	97
LCSD 860-54857/4	Lab Control Sample Dup	97	98	100	98
MB 860-54857/10	Method Blank	101	97	102	99
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-54857/10

Matrix: Water

Analysis Batch: 54857

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			05/28/22 16:12	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/28/22 16:12	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/28/22 16:12	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/28/22 16:12	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/28/22 16:12	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/28/22 16:12	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/28/22 16:12	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/28/22 16:12	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/28/22 16:12	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/28/22 16:12	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/28/22 16:12	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/28/22 16:12	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/28/22 16:12	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/28/22 16:12	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/28/22 16:12	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/28/22 16:12	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/28/22 16:12	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/28/22 16:12	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/28/22 16:12	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/28/22 16:12	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/28/22 16:12	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/28/22 16:12	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/28/22 16:12	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/28/22 16:12	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/28/22 16:12	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/28/22 16:12	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/28/22 16:12	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/28/22 16:12	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/28/22 16:12	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/28/22 16:12	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/28/22 16:12	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 16:12	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/28/22 16:12	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/28/22 16:12	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/28/22 16:12	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/28/22 16:12	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/28/22 16:12	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/28/22 16:12	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/28/22 16:12	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/28/22 16:12	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/28/22 16:12	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/28/22 16:12	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/28/22 16:12	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/28/22 16:12	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/28/22 16:12	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/28/22 16:12	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/28/22 16:12	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/28/22 16:12	1

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QC Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-54857/10

Matrix: Water

Analysis Batch: 54857

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		05/28/22 16:12	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		05/28/22 16:12	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		05/28/22 16:12	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		05/28/22 16:12	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		05/28/22 16:12	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		05/28/22 16:12	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		05/28/22 16:12	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		05/28/22 16:12	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		05/28/22 16:12	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L		05/28/22 16:12	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L		05/28/22 16:12	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		05/28/22 16:12	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L		05/28/22 16:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		05/28/22 16:12	1
Dibromofluoromethane (Surr)	97		75 - 131		05/28/22 16:12	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/28/22 16:12	1
Toluene-d8 (Surr)	99		80 - 117		05/28/22 16:12	1

Lab Sample ID: LCS 860-54857/3

Matrix: Water

Analysis Batch: 54857

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	0.04893		mg/L		98	66 - 142
Bromobenzene	0.0500	0.04986		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.04401		mg/L		88	60 - 140
Bromodichloromethane	0.0500	0.05288		mg/L		106	75 - 125
Bromoform	0.0500	0.05226		mg/L		105	75 - 125
Bromomethane	0.0500	0.05082		mg/L		102	60 - 140
2-Butanone	0.250	0.2470		mg/L		99	60 - 140
Carbon tetrachloride	0.0500	0.05447		mg/L		109	62 - 125
Chlorobenzene	0.0500	0.04950		mg/L		99	60 - 133
Chloroethane	0.0500	0.03547		mg/L		71	60 - 140
Chloroform	0.0500	0.05216		mg/L		104	70 - 130
Chloromethane	0.0500	0.04721		mg/L		94	60 - 140
2-Chlorotoluene	0.0500	0.04954		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04942		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05216		mg/L		104	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05276		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.05410		mg/L		108	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05416		mg/L		108	59 - 125
1,2-Dibromoethane	0.0500	0.05066		mg/L		101	73 - 125
1,2-Dichlorobenzene	0.0500	0.05039		mg/L		101	75 - 125
1,3-Dichlorobenzene	0.0500	0.05027		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05142		mg/L		103	75 - 125
Dichlorodifluoromethane	0.0500	0.06244		mg/L		125	70 - 130

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QC Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-54857/3

Matrix: Water

Analysis Batch: 54857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.05029		mg/L		101	72 - 125
1,2-Dichloroethane	0.0500	0.05247		mg/L		105	68 - 127
1,1-Dichloroethene	0.0500	0.05595		mg/L		112	59 - 172
1,2-Dichloropropane	0.0500	0.04877		mg/L		98	74 - 125
1,3-Dichloropropane	0.0500	0.04830		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.06325	*+	mg/L		127	75 - 125
1,1-Dichloropropene	0.0500	0.05281		mg/L		106	75 - 125
Ethylbenzene	0.0500	0.04993		mg/L		100	75 - 125
Hexachlorobutadiene	0.0500	0.05896		mg/L		118	75 - 125
Isopropylbenzene	0.0500	0.05153		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.04484		mg/L		90	75 - 125
m,p-Xylenes	0.0500	0.05006		mg/L		100	75 - 125
MTBE	0.0500	0.04960		mg/L		99	65 - 135
Naphthalene	0.0500	0.05276		mg/L		106	70 - 130
n-Butylbenzene	0.0500	0.05261		mg/L		105	75 - 125
N-Propylbenzene	0.0500	0.04934		mg/L		99	75 - 125
o-Xylene	0.0500	0.05158		mg/L		103	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05103		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.05083		mg/L		102	75 - 125
Styrene	0.0500	0.05072		mg/L		101	75 - 125
tert-Butylbenzene	0.0500	0.05068		mg/L		101	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05089		mg/L		102	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04824		mg/L		96	74 - 125
Tetrachloroethene	0.0500	0.05391		mg/L		108	71 - 125
Toluene	0.0500	0.04927		mg/L		99	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05063		mg/L		101	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05297		mg/L		106	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05464		mg/L		109	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05297		mg/L		106	75 - 135
1,1,1-Trichloroethane	0.0500	0.05474		mg/L		109	75 - 125
1,1,2-Trichloroethane	0.0500	0.04843		mg/L		97	75 - 127
Trichloroethene	0.0500	0.05191		mg/L		104	62 - 137
Trichlorofluoromethane	0.0500	0.05902		mg/L		118	60 - 140
1,2,3-Trichloropropane	0.0500	0.04695		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04992		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04972		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.05402		mg/L		108	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	97		80 - 117

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QC Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-54857/4

Matrix: Water

Analysis Batch: 54857

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	0.04915		mg/L		98	66 - 142	0	25
Bromobenzene	0.0500	0.05203		mg/L		104	75 - 125	4	25
Bromochloromethane	0.0500	0.04204		mg/L		84	60 - 140	5	25
Bromodichloromethane	0.0500	0.05318		mg/L		106	75 - 125	1	25
Bromoform	0.0500	0.05407		mg/L		108	75 - 125	3	25
Bromomethane	0.0500	0.04754		mg/L		95	60 - 140	7	25
2-Butanone	0.250	0.2403		mg/L		96	60 - 140	3	25
Carbon tetrachloride	0.0500	0.05276		mg/L		106	62 - 125	3	25
Chlorobenzene	0.0500	0.04970		mg/L		99	60 - 133	0	25
Chloroethane	0.0500	0.03461		mg/L		69	60 - 140	2	25
Chloroform	0.0500	0.04947		mg/L		99	70 - 130	5	25
Chloromethane	0.0500	0.04444		mg/L		89	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05049		mg/L		101	73 - 125	2	25
4-Chlorotoluene	0.0500	0.04965		mg/L		99	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04881		mg/L		98	75 - 125	7	25
cis-1,3-Dichloropropene	0.0500	0.05349		mg/L		107	74 - 125	1	25
Dibromochloromethane	0.0500	0.05571		mg/L		111	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05782		mg/L		116	59 - 125	7	25
1,2-Dibromoethane	0.0500	0.05276		mg/L		106	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.05140		mg/L		103	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05171		mg/L		103	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.05204		mg/L		104	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.05672		mg/L		113	70 - 130	10	25
1,1-Dichloroethane	0.0500	0.04717		mg/L		94	72 - 125	6	25
1,2-Dichloroethane	0.0500	0.05274		mg/L		105	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.05181		mg/L		104	59 - 172	8	25
1,2-Dichloropropane	0.0500	0.04935		mg/L		99	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04932		mg/L		99	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05861		mg/L		117	75 - 125	8	25
1,1-Dichloropropene	0.0500	0.04903		mg/L		98	75 - 125	7	25
Ethylbenzene	0.0500	0.04981		mg/L		100	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.05829		mg/L		117	75 - 125	1	25
Isopropylbenzene	0.0500	0.05077		mg/L		102	75 - 125	1	25
Methylene Chloride	0.0500	0.04330		mg/L		87	75 - 125	3	25
m,p-Xylenes	0.0500	0.05035		mg/L		101	75 - 125	1	25
MTBE	0.0500	0.05023		mg/L		100	65 - 135	1	25
Naphthalene	0.0500	0.05391		mg/L		108	70 - 130	2	25
n-Butylbenzene	0.0500	0.05273		mg/L		105	75 - 125	0	25
N-Propylbenzene	0.0500	0.04999		mg/L		100	75 - 125	1	25
o-Xylene	0.0500	0.05150		mg/L		103	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05171		mg/L		103	75 - 125	1	25
sec-Butylbenzene	0.0500	0.05115		mg/L		102	75 - 125	1	25
Styrene	0.0500	0.05053		mg/L		101	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05140		mg/L		103	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05288		mg/L		106	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.05049		mg/L		101	74 - 125	5	25
Tetrachloroethene	0.0500	0.05376		mg/L		108	71 - 125	0	25
Toluene	0.0500	0.04967		mg/L		99	59 - 139	1	25

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QC Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-54857/4

Matrix: Water

Analysis Batch: 54857

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	0.04855		mg/L		97	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05367		mg/L		107	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.05632		mg/L		113	75 - 137	3	25
1,2,4-Trichlorobenzene	0.0500	0.05385		mg/L		108	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05095		mg/L		102	75 - 125	7	25
1,1,2-Trichloroethane	0.0500	0.04935		mg/L		99	75 - 127	2	25
Trichloroethene	0.0500	0.05206		mg/L		104	62 - 137	0	25
Trichlorofluoromethane	0.0500	0.05389		mg/L		108	60 - 140	9	25
1,2,3-Trichloropropane	0.0500	0.04860		mg/L		97	75 - 125	3	25
1,2,4-Trimethylbenzene	0.0500	0.05057		mg/L		101	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05013		mg/L		100	60 - 140	1	25
Vinyl chloride	0.0500	0.04764		mg/L		95	60 - 140	13	25

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-54742/15

Matrix: Water

Analysis Batch: 54742

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			05/27/22 19:03	1
Chloride	<0.200	U	0.500	0.200 mg/L			05/27/22 19:03	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/27/22 19:03	1
Sulfate	<0.109	U	0.500	0.109 mg/L			05/27/22 19:03	1

Lab Sample ID: LCS 860-54742/16

Matrix: Water

Analysis Batch: 54742

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	9.473		mg/L		95	90 - 110
Chloride	10.0	9.871		mg/L		99	90 - 110
Fluoride	10.0	9.990		mg/L		100	90 - 110
Sulfate	10.0	10.19		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-54742/17

Matrix: Water

Analysis Batch: 54742

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	9.454		mg/L		95	90 - 110	0	20
Chloride	10.0	9.844		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.04		mg/L		100	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-54742/17

Matrix: Water

Analysis Batch: 54742

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	10.07		mg/L		101	90 - 110	1	20

Lab Sample ID: LLCS 860-54742/5

Matrix: Water

Analysis Batch: 54742

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	0.6051		mg/L		121	50 - 150		
Chloride	0.500	0.6246		mg/L		125	50 - 150		
Fluoride	0.500	0.5025		mg/L		100	50 - 150		
Sulfate	0.500	0.5619		mg/L		112	50 - 150		

Lab Sample ID: MB 860-54743/15

Matrix: Water

Analysis Batch: 54743

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			05/27/22 19:03	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/27/22 19:03	1

Lab Sample ID: LCS 860-54743/16

Matrix: Water

Analysis Batch: 54743

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	9.571		mg/L		96	80 - 120		
Nitrite as N	5.00	5.088		mg/L		102	80 - 120		

Lab Sample ID: LCSD 860-54743/17

Matrix: Water

Analysis Batch: 54743

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	9.556		mg/L		96	80 - 120	0	20
Nitrite as N	5.00	5.059		mg/L		101	80 - 120	1	20

Lab Sample ID: LLCS 860-54743/4

Matrix: Water

Analysis Batch: 54743

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	0.1191		mg/L		119	50 - 150		
Nitrite as N	0.100	0.09412	J	mg/L		94	50 - 150		

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QC Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-57353/1-A

Matrix: Water

Analysis Batch: 57607

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		06/17/22 09:30	06/17/22 23:33	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		06/17/22 09:30	06/17/22 23:33	1
Potassium	<0.107	U	0.500	0.107 mg/L		06/17/22 09:30	06/17/22 23:33	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		06/17/22 09:30	06/17/22 23:33	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		06/17/22 09:30	06/17/22 23:33	1

Lab Sample ID: MB 860-57353/1-A

Matrix: Water

Analysis Batch: 58126

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.04071	J	0.200	0.0293 mg/L		06/17/22 09:30	06/22/22 11:32	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		06/17/22 09:30	06/22/22 11:32	1
Potassium	<0.107	U	0.500	0.107 mg/L		06/17/22 09:30	06/22/22 11:32	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		06/17/22 09:30	06/22/22 11:32	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		06/17/22 09:30	06/22/22 11:32	1

Lab Sample ID: LCS 860-57353/2-A

Matrix: Water

Analysis Batch: 57607

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	28.51		mg/L		114	85 - 115
Potassium	10.0	11.49		mg/L		115	85 - 115
Sodium	25.0	27.63		mg/L		111	85 - 115
SiO2	21.4	23.17		mg/L		108	85 - 115

Lab Sample ID: LCS 860-57353/2-A

Matrix: Water

Analysis Batch: 58126

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.61		mg/L		102	85 - 115
Magnesium	25.0	25.36		mg/L		101	85 - 115
Potassium	10.0	10.70		mg/L		107	85 - 115
Sodium	25.0	26.42		mg/L		106	85 - 115
SiO2	21.4	22.65		mg/L		106	85 - 115

Lab Sample ID: LCSD 860-57353/3-A

Matrix: Water

Analysis Batch: 57607

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	28.52		mg/L		114	85 - 115	0	20
Potassium	10.0	11.52		mg/L		115	85 - 115	0	20
Sodium	25.0	27.41		mg/L		110	85 - 115	1	20
SiO2	21.4	23.25		mg/L		109	85 - 115	0	20

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QC Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-57353/3-A

Matrix: Water

Analysis Batch: 58126

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.48		mg/L		102	85 - 115	1	20
Magnesium	25.0	25.21		mg/L		101	85 - 115	1	20
Potassium	10.0	10.67		mg/L		107	85 - 115	0	20
Sodium	25.0	26.27		mg/L		105	85 - 115	1	20
SiO2	21.4	22.65		mg/L		106	85 - 115	0	20

Lab Sample ID: 880-15231-1 MS

Matrix: Water

Analysis Batch: 57607

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	42.4	*+ ^2	25.0	71.53		mg/L		117	70 - 130
Potassium	2.93		10.0	15.05		mg/L		121	70 - 130
Sodium	66.7		25.0	94.71		mg/L		112	70 - 130
SiO2	62.7		21.4	87.22		mg/L		114	70 - 130

Lab Sample ID: 880-15231-1 MS

Matrix: Water

Analysis Batch: 58126

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	181	E B	25.0	209.1	E 4	mg/L		111	70 - 130
Magnesium	38.7		25.0	65.89		mg/L		109	70 - 130
Potassium	3.03		10.0	14.75		mg/L		117	70 - 130
Sodium	66.4		25.0	95.19		mg/L		115	70 - 130
SiO2	64.8		21.4	91.37		mg/L		124	70 - 130

Lab Sample ID: 880-15231-1 MSD

Matrix: Water

Analysis Batch: 57607

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	42.4	*+ ^2	25.0	71.63		mg/L		117	70 - 130	0	20
Potassium	2.93		10.0	15.10		mg/L		122	70 - 130	0	20
Sodium	66.7		25.0	95.81		mg/L		117	70 - 130	1	20
SiO2	62.7		21.4	87.37		mg/L		115	70 - 130	0	20

Lab Sample ID: 880-15231-1 MSD

Matrix: Water

Analysis Batch: 58126

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 57353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	181	E B	25.0	209.0	E 4	mg/L		111	70 - 130	0	20
Magnesium	38.7		25.0	65.85		mg/L		108	70 - 130	0	20
Potassium	3.03		10.0	14.79		mg/L		118	70 - 130	0	20
Sodium	66.4		25.0	95.48		mg/L		116	70 - 130	0	20
SiO2	64.8		21.4	91.16		mg/L		123	70 - 130	0	20

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QC Sample Results

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

Job ID: 880-15231-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-54927/3

Matrix: Water

Analysis Batch: 54927

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	mg/L			05/27/22 17:41	1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			05/27/22 17:41	1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			05/27/22 17:41	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			05/27/22 17:41	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			05/27/22 17:41	1

Lab Sample ID: LCS 860-54927/4

Matrix: Water

Analysis Batch: 54927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	268.5		mg/L		107	85 - 115

Lab Sample ID: LCSD 860-54927/5

Matrix: Water

Analysis Batch: 54927

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	265.8		mg/L		106	85 - 115	1	20

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

Lab Sample ID: MB 860-54829/1

Matrix: Water

Analysis Batch: 54829

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	mg/L			05/27/22 17:37	1

Lab Sample ID: LCS 860-54829/2

Matrix: Water

Analysis Batch: 54829

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	983.0		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-54829/3

Matrix: Water

Analysis Batch: 54829

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	1022		mg/L		102	80 - 120	4	10

QC Association Summary

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

Job ID: 880-15231-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 54857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total/NA	Water	8260C	
MB 860-54857/10	Method Blank	Total/NA	Water	8260C	
LCS 860-54857/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-54857/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 54742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total/NA	Water	300.0	
MB 860-54742/15	Method Blank	Total/NA	Water	300.0	
LCS 860-54742/16	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-54742/17	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-54742/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 54743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total/NA	Water	300.0	
880-15231-1 - DL	Levey Well	Total/NA	Water	300.0	
MB 860-54743/15	Method Blank	Total/NA	Water	300.0	
LCS 860-54743/16	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-54743/17	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-54743/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 57353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-57353/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-57353/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-57353/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-57353/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-15231-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-15231-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 57607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57353
880-15231-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57353
MB 860-57353/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	57353
LCS 860-57353/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	57353
LCSD 860-57353/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	57353
880-15231-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57353
880-15231-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57353

Analysis Batch: 58126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57353
MB 860-57353/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	57353
LCS 860-57353/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	57353
LCSD 860-57353/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	57353

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QC Association Summary

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

Job ID: 880-15231-1
SDG: Hobbs NM

Metals (Continued)

Analysis Batch: 58126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-57353/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	57353
880-15231-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57353
880-15231-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57353

General Chemistry

Analysis Batch: 54812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 54829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-54829/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-54829/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-54829/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 54927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-54927/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-54927/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-54927/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 56438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15231-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-15231-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 05/26/22 09:55
Date Received: 05/26/22 15:00

Lab Sample ID: 880-15231-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	54857	05/28/22 18:19	A1S	XEN STF
Total/NA	Analysis	300.0		1	54742	05/28/22 02:59	W1N	XEN STF
Total/NA	Analysis	300.0		1	54743	05/28/22 02:59	W1N	XEN STF
Total/NA	Analysis	300.0	DL	10	54743	05/28/22 03:12	W1N	XEN STF
Total Recoverable	Prep	200.7			57353	06/17/22 09:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	57607	06/17/22 23:44	AV	XEN STF
Total Recoverable	Prep	200.7			57353	06/17/22 09:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	57607	06/18/22 01:40	AV	XEN STF
Total Recoverable	Prep	200.7			57353	06/17/22 09:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	58126	06/22/22 11:50	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	56438	06/10/22 11:09	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	54927	05/27/22 18:44	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	54829	05/27/22 17:37	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	54812	05/27/22 18:03	TL	XEN STF

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

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Accreditation/Certification Summary

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

Job ID: 880-15231-1
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
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: 880-15231-1
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: 880-15231-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15231-1	Levey Well	Water	05/26/22 09:55	05/26/22 15:00

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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 565-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813)

Chain of Custody

Work Order No: 15231

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

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

[illegible]

SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice:	Yes	No
Temperature (°C):		4.2/4.0			Thermometer ID		
Received intact:		yes	No				
Cooler Custody Seals:		Yes	No	N/A	Correction Factor:		
Sample Custody Seals:		Yes	No	N/A	Total Containers:		

	No. of Containers
F, Cl, SO ₄ , B	
C, Ca, K, Mg, Na, Si	
y	
TAT starts the day received by the lab, if received by 4:30pm	

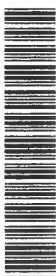
Sample Identification						Sample Comments							
Levey Well	Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions:	Cations:	pH	Alkalinity	TDS		
	GW	5-26-22	0955	-	7	X	X	X	X	X	X		
860-15231 Chain of Custody  24hr													



Chain of Custody

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas '11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010		8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		1631 / 245.1 / 7470 / 7471 Hg	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.							
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by (Signature)	Received by: (Signature)	Date/Time		
<i>[Signature]</i>	<i>[Signature]</i>	8/26/02			2		
		15:00			4		
					6		

Chain of Custody Record



Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15231-1

SDG Number: Hobbs NM

Login Number: 15231

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: 880-15231-1

SDG Number: Hobbs NM

Login Number: 15231

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 05/27/22 04:36 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	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15231-1

SDG Number: Hobbs NM

Login Number: 15231

List Number: 4

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 06/16/22 02:50 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15230-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:

6/10/2022 11:42:21 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-15230-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

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

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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

General Chemistry

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

Glossary

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

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-15230-1

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-15230-1

Job ID: 880-15230-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-15230-1****Receipt**

The samples were received on 5/26/2022 3:00 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 4.0°C

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-54857 recovered outside control limits for the following analytes: 2,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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 (880-15230-2). Note: pH 5.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 860-55024 and analytical batch 860-54946 was outside the upper control limits. LCS/LCSD/MS/SAMPLES ARE ALL OK.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside the upper control limit: MW-1 (880-15230-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Chloride and Sulfate analytical batch 860-54742 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: 880-15230-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15230-1

Date Collected: 05/26/22 10:45

Matrix: Water

Date Received: 05/26/22 15:00

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			05/28/22 17:18	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/28/22 17:18	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/28/22 17:18	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/28/22 17:18	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/28/22 17:18	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/28/22 17:18	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/28/22 17:18	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/28/22 17:18	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/28/22 17:18	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/28/22 17:18	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/28/22 17:18	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/28/22 17:18	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/28/22 17:18	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/28/22 17:18	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/28/22 17:18	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/28/22 17:18	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/28/22 17:18	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/28/22 17:18	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/28/22 17:18	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/28/22 17:18	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/28/22 17:18	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/28/22 17:18	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/28/22 17:18	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/28/22 17:18	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/28/22 17:18	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/28/22 17:18	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/28/22 17:18	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/28/22 17:18	1
2,2-Dichloropropane	<0.000360	U *	0.00500	0.000360 mg/L			05/28/22 17:18	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/28/22 17:18	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/28/22 17:18	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 17:18	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/28/22 17:18	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/28/22 17:18	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/28/22 17:18	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/28/22 17:18	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/28/22 17:18	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/28/22 17:18	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/28/22 17:18	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/28/22 17:18	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/28/22 17:18	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/28/22 17:18	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/28/22 17:18	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/28/22 17:18	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/28/22 17:18	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/28/22 17:18	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/28/22 17:18	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/28/22 17:18	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			05/28/22 17:18	1

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Client Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15230-1

Date Collected: 05/26/22 10:45

Matrix: Water

Date Received: 05/26/22 15:00

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			05/28/22 17:18	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 17:18	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 17:18	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/28/22 17:18	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/28/22 17:18	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/28/22 17:18	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/28/22 17:18	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/28/22 17:18	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			05/28/22 17:18	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			05/28/22 17:18	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/28/22 17:18	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			05/28/22 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		05/28/22 17:18	1
Dibromofluoromethane (Surr)	99		75 - 131		05/28/22 17:18	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/28/22 17:18	1
Toluene-d8 (Surr)	99		80 - 117		05/28/22 17:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.920	U	4.66	0.920 mg/L			05/31/22 18:17	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	<0.920	U	4.66	0.920 mg/L		05/31/22 16:25	05/31/22 23:43	1
Diesel Range Organics (Over C10-C28)	<0.920	U	4.66	0.920 mg/L		05/31/22 16:25	05/31/22 23:43	1
Oil Range Organics (Over C28-C36)	<0.888	U	4.66	0.888 mg/L		05/31/22 16:25	05/31/22 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	172	S1+	70 - 135			05/31/22 16:25	05/31/22 23:43	1
o-Terphenyl	195	S1+	70 - 135			05/31/22 16:25	05/31/22 23:43	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.7		0.500	0.200 mg/L			05/27/22 20:46	1
Nitrate as N	0.0777	J	0.100	0.0391 mg/L			05/27/22 20:46	1
Fluoride	0.720		0.500	0.100 mg/L			05/27/22 20:46	1
Nitrite as N	0.809		0.100	0.0293 mg/L			05/27/22 20:46	1
Sulfate	44.7		0.500	0.109 mg/L			05/27/22 20:46	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	256		4.00	4.00 mg/L			05/27/22 18:07	1
Bicarbonate Alkalinity as CaCO3	256		4.00	4.00 mg/L			05/27/22 18:07	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/27/22 18:07	1
Carbon dioxide	257			mg/L			06/10/22 11:07	1
Carbon Dioxide, Free	32.2			mg/L			06/10/22 11:07	1
pH	7.2	HF		SU			05/27/22 18:03	1

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Client Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15230-1

Date Collected: 05/26/22 10:45

Matrix: Water

Date Received: 05/26/22 15:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	18.0	HF		Celsius			05/27/22 18:03	1
Sulfide	1.00	J	5.00	0.495 mg/L			05/31/22 19:48	1

Client Sample ID: MW-2

Lab Sample ID: 880-15230-2

Date Collected: 05/26/22 11:35

Matrix: Water

Date Received: 05/26/22 15:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0238		0.00100	0.000214 mg/L			05/28/22 17:38	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/28/22 17:38	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/28/22 17:38	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/28/22 17:38	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/28/22 17:38	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/28/22 17:38	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/28/22 17:38	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/28/22 17:38	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/28/22 17:38	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/28/22 17:38	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/28/22 17:38	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/28/22 17:38	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/28/22 17:38	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/28/22 17:38	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/28/22 17:38	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/28/22 17:38	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/28/22 17:38	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/28/22 17:38	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/28/22 17:38	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/28/22 17:38	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/28/22 17:38	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/28/22 17:38	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/28/22 17:38	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/28/22 17:38	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/28/22 17:38	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/28/22 17:38	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/28/22 17:38	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/28/22 17:38	1
2,2-Dichloropropane	<0.000360	U *	0.00500	0.000360 mg/L			05/28/22 17:38	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/28/22 17:38	1
Ethylbenzene	0.0208		0.00100	0.000515 mg/L			05/28/22 17:38	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 17:38	1
Isopropylbenzene	0.00912		0.00100	0.000161 mg/L			05/28/22 17:38	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/28/22 17:38	1
m,p-Xylenes	0.105		0.0100	0.000330 mg/L			05/28/22 17:38	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/28/22 17:38	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/28/22 17:38	1
n-Butylbenzene	0.000780	J	0.00100	0.000286 mg/L			05/28/22 17:38	1
N-Propylbenzene	0.00268		0.00100	0.000179 mg/L			05/28/22 17:38	1
o-Xylene	0.00782		0.00100	0.000192 mg/L			05/28/22 17:38	1
p-Cymene (p-Isopropyltoluene)	0.000846	J	0.00100	0.000233 mg/L			05/28/22 17:38	1

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Client Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-15230-2

Date Collected: 05/26/22 11:35

Matrix: Water

Date Received: 05/26/22 15:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.00102		0.00100	0.000199 mg/L			05/28/22 17:38	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/28/22 17:38	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/28/22 17:38	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/28/22 17:38	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/28/22 17:38	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/28/22 17:38	1
Toluene	0.00151		0.00100	0.000500 mg/L			05/28/22 17:38	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			05/28/22 17:38	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			05/28/22 17:38	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 17:38	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 17:38	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/28/22 17:38	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/28/22 17:38	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/28/22 17:38	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/28/22 17:38	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/28/22 17:38	1
1,2,4-Trimethylbenzene	0.0317		0.00100	0.000252 mg/L			05/28/22 17:38	1
1,3,5-Trimethylbenzene	0.00846		0.00100	0.000279 mg/L			05/28/22 17:38	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/28/22 17:38	1
Xylenes, Total	0.113		0.0100	0.000330 mg/L			05/28/22 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		05/28/22 17:38	1
Dibromofluoromethane (Surr)	98		75 - 131		05/28/22 17:38	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		05/28/22 17:38	1
Toluene-d8 (Surr)	97		80 - 117		05/28/22 17:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.02	J	4.81	0.950 mg/L			05/31/22 18:17	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	1.02	J	4.81	0.950 mg/L		05/31/22 16:25	05/31/22 23:23	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950 mg/L		05/31/22 16:25	05/31/22 23:23	1
Oil Range Organics (Over C28-C36)	<0.917	U	4.81	0.917 mg/L		05/31/22 16:25	05/31/22 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 135	05/31/22 16:25	05/31/22 23:23	1
o-Terphenyl	108		70 - 135	05/31/22 16:25	05/31/22 23:23	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		0.500	0.200 mg/L			05/28/22 02:07	1
Nitrate as N	0.392		0.100	0.0391 mg/L			05/28/22 02:07	1
Fluoride	0.196	J	0.500	0.100 mg/L			05/28/22 02:07	1
Nitrite as N	1.14		0.100	0.0293 mg/L			05/28/22 02:07	1
Sulfate	104		0.500	0.109 mg/L			05/28/22 02:07	1

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Client Sample Results

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

Job ID: 880-15230-1

Client Sample ID: MW-2
Date Collected: 05/26/22 11:35
Date Received: 05/26/22 15:00

Lab Sample ID: 880-15230-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1320		4.00	4.00	mg/L			05/27/22 18:32	1
Bicarbonate Alkalinity as CaCO3	1320		4.00	4.00	mg/L			05/27/22 18:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			05/27/22 18:32	1
Carbon dioxide	3810				mg/L			06/10/22 11:07	1
Carbon Dioxide, Free	2650				mg/L			06/10/22 11:07	1
pH	6.0	HF			SU			05/27/22 18:03	1
Temperature	18.1	HF			Celsius			05/27/22 18:03	1
Sulfide	<0.495	U	5.00	0.495	mg/L			05/31/22 19:48	1

Surrogate Summary

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
860-26923-D-4 MS	Matrix Spike	100	99	100	98
860-26923-D-4 MSD	Matrix Spike Duplicate	97	101	101	99
880-15230-1	MW-1	101	99	103	99
880-15230-2	MW-2	96	98	107	97
LCS 860-54857/3	Lab Control Sample	97	102	105	97
LCSD 860-54857/4	Lab Control Sample Dup	97	98	100	98
MB 860-54857/10	Method Blank	101	97	102	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-15230-1	MW-1	172 S1+	195 S1+
880-15230-2	MW-2	94	108
LCS 860-55024/2-A	Lab Control Sample	110	125
LCSD 860-55024/3-A	Lab Control Sample Dup	113	129
MB 860-55024/1-A	Method Blank	144 S1+	165 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-54857/10

Matrix: Water

Analysis Batch: 54857

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			05/28/22 16:12	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			05/28/22 16:12	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			05/28/22 16:12	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			05/28/22 16:12	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			05/28/22 16:12	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			05/28/22 16:12	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			05/28/22 16:12	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			05/28/22 16:12	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			05/28/22 16:12	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			05/28/22 16:12	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			05/28/22 16:12	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			05/28/22 16:12	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			05/28/22 16:12	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			05/28/22 16:12	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			05/28/22 16:12	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			05/28/22 16:12	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			05/28/22 16:12	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			05/28/22 16:12	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			05/28/22 16:12	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			05/28/22 16:12	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			05/28/22 16:12	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			05/28/22 16:12	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			05/28/22 16:12	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			05/28/22 16:12	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			05/28/22 16:12	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			05/28/22 16:12	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			05/28/22 16:12	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			05/28/22 16:12	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			05/28/22 16:12	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			05/28/22 16:12	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			05/28/22 16:12	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 16:12	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			05/28/22 16:12	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			05/28/22 16:12	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			05/28/22 16:12	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			05/28/22 16:12	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			05/28/22 16:12	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			05/28/22 16:12	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			05/28/22 16:12	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			05/28/22 16:12	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			05/28/22 16:12	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			05/28/22 16:12	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			05/28/22 16:12	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			05/28/22 16:12	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			05/28/22 16:12	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			05/28/22 16:12	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			05/28/22 16:12	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			05/28/22 16:12	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-54857/10

Matrix: Water

Analysis Batch: 54857

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			05/28/22 16:12	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			05/28/22 16:12	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 16:12	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			05/28/22 16:12	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			05/28/22 16:12	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			05/28/22 16:12	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			05/28/22 16:12	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			05/28/22 16:12	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			05/28/22 16:12	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			05/28/22 16:12	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			05/28/22 16:12	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			05/28/22 16:12	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			05/28/22 16:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124				05/28/22 16:12	1
Dibromofluoromethane (Surr)	97		75 - 131				05/28/22 16:12	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144				05/28/22 16:12	1
Toluene-d8 (Surr)	99		80 - 117				05/28/22 16:12	1

Lab Sample ID: LCS 860-54857/3

Matrix: Water

Analysis Batch: 54857

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	0.04893		mg/L		98	66 - 142
Bromobenzene	0.0500	0.04986		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.04401		mg/L		88	60 - 140
Bromodichloromethane	0.0500	0.05288		mg/L		106	75 - 125
Bromoform	0.0500	0.05226		mg/L		105	75 - 125
Bromomethane	0.0500	0.05082		mg/L		102	60 - 140
2-Butanone	0.250	0.2470		mg/L		99	60 - 140
Carbon tetrachloride	0.0500	0.05447		mg/L		109	62 - 125
Chlorobenzene	0.0500	0.04950		mg/L		99	60 - 133
Chloroethane	0.0500	0.03547		mg/L		71	60 - 140
Chloroform	0.0500	0.05216		mg/L		104	70 - 130
Chloromethane	0.0500	0.04721		mg/L		94	60 - 140
2-Chlorotoluene	0.0500	0.04954		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04942		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05216		mg/L		104	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05276		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.05410		mg/L		108	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05416		mg/L		108	59 - 125
1,2-Dibromoethane	0.0500	0.05066		mg/L		101	73 - 125
1,2-Dichlorobenzene	0.0500	0.05039		mg/L		101	75 - 125
1,3-Dichlorobenzene	0.0500	0.05027		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05142		mg/L		103	75 - 125
Dichlorodifluoromethane	0.0500	0.06244		mg/L		125	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-54857/3

Matrix: Water

Analysis Batch: 54857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.05029		mg/L		101	72 - 125
1,2-Dichloroethane	0.0500	0.05247		mg/L		105	68 - 127
1,1-Dichloroethene	0.0500	0.05595		mg/L		112	59 - 172
1,2-Dichloropropane	0.0500	0.04877		mg/L		98	74 - 125
1,3-Dichloropropane	0.0500	0.04830		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.06325	*+	mg/L		127	75 - 125
1,1-Dichloropropene	0.0500	0.05281		mg/L		106	75 - 125
Ethylbenzene	0.0500	0.04993		mg/L		100	75 - 125
Hexachlorobutadiene	0.0500	0.05896		mg/L		118	75 - 125
Isopropylbenzene	0.0500	0.05153		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.04484		mg/L		90	75 - 125
m,p-Xylenes	0.0500	0.05006		mg/L		100	75 - 125
MTBE	0.0500	0.04960		mg/L		99	65 - 135
Naphthalene	0.0500	0.05276		mg/L		106	70 - 130
n-Butylbenzene	0.0500	0.05261		mg/L		105	75 - 125
N-Propylbenzene	0.0500	0.04934		mg/L		99	75 - 125
o-Xylene	0.0500	0.05158		mg/L		103	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05103		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.05083		mg/L		102	75 - 125
Styrene	0.0500	0.05072		mg/L		101	75 - 125
tert-Butylbenzene	0.0500	0.05068		mg/L		101	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05089		mg/L		102	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04824		mg/L		96	74 - 125
Tetrachloroethene	0.0500	0.05391		mg/L		108	71 - 125
Toluene	0.0500	0.04927		mg/L		99	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05063		mg/L		101	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05297		mg/L		106	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05464		mg/L		109	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05297		mg/L		106	75 - 135
1,1,1-Trichloroethane	0.0500	0.05474		mg/L		109	75 - 125
1,1,2-Trichloroethane	0.0500	0.04843		mg/L		97	75 - 127
Trichloroethene	0.0500	0.05191		mg/L		104	62 - 137
Trichlorofluoromethane	0.0500	0.05902		mg/L		118	60 - 140
1,2,3-Trichloropropane	0.0500	0.04695		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04992		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04972		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.05402		mg/L		108	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-54857/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 54857

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04915		mg/L		98	66 - 142	0	25
Bromobenzene	0.0500	0.05203		mg/L		104	75 - 125	4	25
Bromochloromethane	0.0500	0.04204		mg/L		84	60 - 140	5	25
Bromodichloromethane	0.0500	0.05318		mg/L		106	75 - 125	1	25
Bromoform	0.0500	0.05407		mg/L		108	75 - 125	3	25
Bromomethane	0.0500	0.04754		mg/L		95	60 - 140	7	25
2-Butanone	0.250	0.2403		mg/L		96	60 - 140	3	25
Carbon tetrachloride	0.0500	0.05276		mg/L		106	62 - 125	3	25
Chlorobenzene	0.0500	0.04970		mg/L		99	60 - 133	0	25
Chloroethane	0.0500	0.03461		mg/L		69	60 - 140	2	25
Chloroform	0.0500	0.04947		mg/L		99	70 - 130	5	25
Chloromethane	0.0500	0.04444		mg/L		89	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05049		mg/L		101	73 - 125	2	25
4-Chlorotoluene	0.0500	0.04965		mg/L		99	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04881		mg/L		98	75 - 125	7	25
cis-1,3-Dichloropropene	0.0500	0.05349		mg/L		107	74 - 125	1	25
Dibromochloromethane	0.0500	0.05571		mg/L		111	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05782		mg/L		116	59 - 125	7	25
1,2-Dibromoethane	0.0500	0.05276		mg/L		106	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.05140		mg/L		103	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05171		mg/L		103	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.05204		mg/L		104	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.05672		mg/L		113	70 - 130	10	25
1,1-Dichloroethane	0.0500	0.04717		mg/L		94	72 - 125	6	25
1,2-Dichloroethane	0.0500	0.05274		mg/L		105	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.05181		mg/L		104	59 - 172	8	25
1,2-Dichloropropane	0.0500	0.04935		mg/L		99	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04932		mg/L		99	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05861		mg/L		117	75 - 125	8	25
1,1-Dichloropropene	0.0500	0.04903		mg/L		98	75 - 125	7	25
Ethylbenzene	0.0500	0.04981		mg/L		100	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.05829		mg/L		117	75 - 125	1	25
Isopropylbenzene	0.0500	0.05077		mg/L		102	75 - 125	1	25
Methylene Chloride	0.0500	0.04330		mg/L		87	75 - 125	3	25
m,p-Xylenes	0.0500	0.05035		mg/L		101	75 - 125	1	25
MTBE	0.0500	0.05023		mg/L		100	65 - 135	1	25
Naphthalene	0.0500	0.05391		mg/L		108	70 - 130	2	25
n-Butylbenzene	0.0500	0.05273		mg/L		105	75 - 125	0	25
N-Propylbenzene	0.0500	0.04999		mg/L		100	75 - 125	1	25
o-Xylene	0.0500	0.05150		mg/L		103	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05171		mg/L		103	75 - 125	1	25
sec-Butylbenzene	0.0500	0.05115		mg/L		102	75 - 125	1	25
Styrene	0.0500	0.05053		mg/L		101	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05140		mg/L		103	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05288		mg/L		106	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.05049		mg/L		101	74 - 125	5	25
Tetrachloroethene	0.0500	0.05376		mg/L		108	71 - 125	0	25
Toluene	0.0500	0.04967		mg/L		99	59 - 139	1	25

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QC Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-54857/4

Matrix: Water

Analysis Batch: 54857

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	0.04855		mg/L		97	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05367		mg/L		107	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.05632		mg/L		113	75 - 137	3	25
1,2,4-Trichlorobenzene	0.0500	0.05385		mg/L		108	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05095		mg/L		102	75 - 125	7	25
1,1,2-Trichloroethane	0.0500	0.04935		mg/L		99	75 - 127	2	25
Trichloroethene	0.0500	0.05206		mg/L		104	62 - 137	0	25
Trichlorofluoromethane	0.0500	0.05389		mg/L		108	60 - 140	9	25
1,2,3-Trichloropropane	0.0500	0.04860		mg/L		97	75 - 125	3	25
1,2,4-Trimethylbenzene	0.0500	0.05057		mg/L		101	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05013		mg/L		100	60 - 140	1	25
Vinyl chloride	0.0500	0.04764		mg/L		95	60 - 140	13	25

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

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

Lab Sample ID: MB 860-55024/1-A

Matrix: Water

Analysis Batch: 54946

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55024

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		05/31/22 16:25	05/31/22 23:03	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		05/31/22 16:25	05/31/22 23:03	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		05/31/22 16:25	05/31/22 23:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 135	05/31/22 16:25	05/31/22 23:03	1
o-Terphenyl	165	S1+	70 - 135	05/31/22 16:25	05/31/22 23:03	1

Lab Sample ID: LCS 860-55024/2-A

Matrix: Water

Analysis Batch: 54946

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	100	125.7		mg/L		126	70 - 135
Diesel Range Organics (Over C10-C28)	100	115.2		mg/L		115	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 135
o-Terphenyl	125		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-55024/3-A

Matrix: Water

Analysis Batch: 54946

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55024

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	100	130.1			mg/L		130	70 - 135	3	35
Diesel Range Organics (Over C10-C28)	100	118.8			mg/L		119	70 - 135	3	35
Surrogate										
LCSD		LCSD								
%Recovery		Qualifier		Limits						
1-Chlorooctane		113		70 - 135						
o-Terphenyl		129		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-54742/15

Matrix: Water

Analysis Batch: 54742

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.200	U	0.500	mg/L			05/27/22 19:03	1
Fluoride	<0.100	U	0.500	mg/L			05/27/22 19:03	1
Sulfate	<0.109	U	0.500	mg/L			05/27/22 19:03	1

Lab Sample ID: LCS 860-54742/16

Matrix: Water

Analysis Batch: 54742

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Limit				Limits	RPD
Chloride	10.0	9.871			mg/L		99	90 - 110	
Fluoride	10.0	9.990			mg/L		100	90 - 110	
Sulfate	10.0	10.19			mg/L		102	90 - 110	

Lab Sample ID: LCSD 860-54742/17

Matrix: Water

Analysis Batch: 54742

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	Limit
Chloride	10.0	9.844			mg/L		98	90 - 110	0	20
Fluoride	10.0	10.04			mg/L		100	90 - 110	0	20
Sulfate	10.0	10.07			mg/L		101	90 - 110	1	20

Lab Sample ID: LLCS 860-54742/5

Matrix: Water

Analysis Batch: 54742

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LLCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Limit				Limits	RPD
Chloride	0.500	0.6246			mg/L		125	50 - 150	
Fluoride	0.500	0.5025			mg/L		100	50 - 150	
Sulfate	0.500	0.5619			mg/L		112	50 - 150	

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QC Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-54743/15

Matrix: Water

Analysis Batch: 54743

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			05/27/22 19:03	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/27/22 19:03	1

Lab Sample ID: LCS 860-54743/16

Matrix: Water

Analysis Batch: 54743

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	9.571		mg/L		96	80 - 120
Nitrite as N	5.00	5.088		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-54743/17

Matrix: Water

Analysis Batch: 54743

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	9.556		mg/L		96	80 - 120	0	20
Nitrite as N	5.00	5.059		mg/L		101	80 - 120	1	20

Lab Sample ID: LLCS 860-54743/4

Matrix: Water

Analysis Batch: 54743

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	0.1191		mg/L		119	50 - 150
Nitrite as N	0.100	0.09412	J	mg/L		94	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-54927/3

Matrix: Water

Analysis Batch: 54927

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			05/27/22 17:41	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/27/22 17:41	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/27/22 17:41	1

Lab Sample ID: LCS 860-54927/4

Matrix: Water

Analysis Batch: 54927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	268.5		mg/L		107	85 - 115

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-54927/5

Matrix: Water

Analysis Batch: 54927

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	265.8		mg/L		106	85 - 115	1	20

Lab Sample ID: 880-15230-1 DU

Matrix: Water

Analysis Batch: 54927

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	256		263.6		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	256		263.6		mg/L		3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-55054/1

Matrix: Water

Analysis Batch: 55054

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			05/31/22 19:48	1

Lab Sample ID: LCS 860-55054/2

Matrix: Water

Analysis Batch: 55054

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	47.40		mg/L		95	80 - 120

Lab Sample ID: LCSD 860-55054/3

Matrix: Water

Analysis Batch: 55054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	50.0	46.40		mg/L		93	80 - 120	2	20

Lab Sample ID: 880-15230-2 MS

Matrix: Water

Analysis Batch: 55054

Client Sample ID: MW-2

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	46.60		mg/L		93	80 - 120

Lab Sample ID: 880-15230-2 MSD

Matrix: Water

Analysis Batch: 55054

Client Sample ID: MW-2

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	46.60		mg/L		93	80 - 120	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-15230-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 54857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	8260C	
880-15230-2	MW-2	Total/NA	Water	8260C	
MB 860-54857/10	Method Blank	Total/NA	Water	8260C	
LCS 860-54857/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-54857/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 54946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	8015B NM	55024
880-15230-2	MW-2	Total/NA	Water	8015B NM	55024
MB 860-55024/1-A	Method Blank	Total/NA	Water	8015B NM	55024
LCS 860-55024/2-A	Lab Control Sample	Total/NA	Water	8015B NM	55024
LCSD 860-55024/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	55024

Prep Batch: 55024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-15230-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-55024/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-55024/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-55024/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 55049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	8015 NM	
880-15230-2	MW-2	Total/NA	Water	8015 NM	

HPLC/IC

Analysis Batch: 54742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	300.0	
880-15230-2	MW-2	Total/NA	Water	300.0	
MB 860-54742/15	Method Blank	Total/NA	Water	300.0	
LCS 860-54742/16	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-54742/17	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-54742/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 54743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	300.0	
880-15230-2	MW-2	Total/NA	Water	300.0	
MB 860-54743/15	Method Blank	Total/NA	Water	300.0	
LCS 860-54743/16	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-54743/17	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-54743/4	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-15230-1

General Chemistry

Analysis Batch: 54812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-15230-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 54927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	SM 2320B	
880-15230-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-54927/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-54927/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-54927/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-15230-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 55054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-15230-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-55054/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-55054/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-55054/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-15230-2 MS	MW-2	Total/NA	Water	SM 4500 S2 F	
880-15230-2 MSD	MW-2	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 56436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15230-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-15230-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-15230-1

Client Sample ID: MW-1

Lab Sample ID: 880-15230-1

Date Collected: 05/26/22 10:45

Matrix: Water

Date Received: 05/26/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	54857	05/28/22 17:18	A1S	XEN STF
Total/NA	Analysis	8015 NM		1	55049	05/31/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			55024	05/31/22 16:25	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	54946	05/31/22 23:43	T1S	XEN STF
Total/NA	Analysis	300.0		1	54742	05/27/22 20:46	W1N	XEN STF
Total/NA	Analysis	300.0		1	54743	05/27/22 20:46	W1N	XEN STF
Total/NA	Analysis	SM 2320B		1	54927	05/27/22 18:07	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	56436	06/10/22 11:07	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	54812	05/27/22 18:03	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	55054	05/31/22 19:48	YGG	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-15230-2

Date Collected: 05/26/22 11:35

Matrix: Water

Date Received: 05/26/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	54857	05/28/22 17:38	A1S	XEN STF
Total/NA	Analysis	8015 NM		1	55049	05/31/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			55024	05/31/22 16:25	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	54946	05/31/22 23:23	T1S	XEN STF
Total/NA	Analysis	300.0		1	54742	05/28/22 02:07	W1N	XEN STF
Total/NA	Analysis	300.0		1	54743	05/28/22 02:07	W1N	XEN STF
Total/NA	Analysis	SM 2320B		1	54927	05/27/22 18:32	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	56436	06/10/22 11:07	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	54812	05/27/22 18:03	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	55054	05/31/22 19:48	YGG	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: South Hobbs - 03B1417002

Job ID: 880-15230-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-15230-1

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

Protocol References:

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

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-15230-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15230-1	MW-1	Water	05/26/22 10:45	05/26/22 15:00
880-15230-2	MW-2	Water	05/26/22 11:35	05/26/22 15:00

- 1
- 2
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- 12
- 13
- 14



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 508-3334
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)

Chain of Custody

Work Order No: 15230

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

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

Project Name:	South Hobbs	Turn Around		ANALYSIS REQUEST		Work Order Notes
Project Number:	03B1417002	Routine ☐				
P.O. Number:	03B1417002	Rush 24 Hr				
Sample's Name:	Shane Diller	Due Date				
SAMPLE RECEIPT		Temp Blank: ☐ Yes ☒ No	Wet Ice: ☐ Yes ☒ No			
Temperature (°C):	4.2/4.0	Thermometer ID	IPB			
Received Intact:	☒ Yes ☐ No	Correction Factor:	-2			
Cooler Custody Seals:	☒ Yes ☐ No	Total Containers:				
Sample Custody Seals:	☒ Yes ☐ No					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	
MMW-1	GW	5-26-22	1045	-	7	
MMW-2	GW	5-26-22	1135	-	7	
Dissolved Carbon Dioxide 4500 CO2 c						
Dissoved 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						
TAT starts the day received by the lab if received by 4 30pm						
Sample Comments						24 Hr

CUSTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY
www.essvial.com 800-233-8425

Date: 5-26-22
Signature: [Signature]

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[Signature]	[Signature]	8/26/22	[Signature]	[Signature]	15.00
3			4		
5			6		

Eurofins Midland

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

Chain of Custody Record

 eurofins

**Environment Testing
America**

[illegible]

Ver: 06/08/2021

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

Chain of Custody Record



**Environment Testing
America**

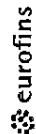
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Ver. 06/08/2021

Eurofins Midland

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sender: Lab Pkt. Builes, John		COC No: 880-4497 1	
Client Contact: Shipping/Receiving		Phone:		Garner Tracking No(s):	
Company: Eurofins Environment Testing South Centr		E-Mail: John.Builes@et.eurofins.com		Page: Page 1 of 1	
Address: 4145 Greenbriar Dr		Accreditations Required (See note): NELAP Texas		Job #: 880-15226-1	
City: Stafford		Due Date Requested: 5/30/2022		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other	
State, Zip: TX, 77477		TAT Requested (days):		M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)	
Phone: 281-240-4200(Tel)		PO #:			
Email:		WO #:			
Project #: Backyard Facility		Project #: 88001122			
Site:		SSOW#:			
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, On-site, etc.)
MW-1 (880-15226-1)		5/26/22	11:15 Central		Water
MW-2 (880-15226-2)		5/26/22	12:45 Central		Water
MW-3 (880-15226-3)		5/26/22	11:51 Central		Water
Temp 22 IR ID: HOU-332 C/F -0.9 Corrected Temp: 1.3					
TX 1005/TX 1005 W Prop Standard List					
TX 1005/TX 1005 W Prop Standard List					
300_ORGFM/ (MOD) Custom List					
300_ORGFM/ (MOD) Custom List					
200_7/200_7_P_TR (MOD) Custom List					
2320B					
SM4500_MV pH and Temperature					
2540C Calcd					
9260C/6030C BTEX					
Total BTEX					
Special Instructions/Note:					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV Other (specify) Primary Deliverable Rank 2					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by Greyhound					
Relinquished by Greyhound					
Relinquished by Greyhound					
Relinquished by Greyhound					
Custody Seals Intact: Greyhound					
Δ Yes Δ No					
Cooler Temperature and Other Remarks:					
Ver 06/08/2021					

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

Chain of Custody Record



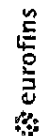
**Environment Testing
America**

Client Information (Sub Contract Lab)			Lab PM: Simmons, Debbie		Carrier Tracking No(s): 880-4496.1	
Client Contact: Shipping/Receiving			E-Mail: Debbie.Simmons@et.eurofins.com		Page: Page 1 of 1	
Company: Eurofins Environment Testing South Central			Accreditations Required (See note): NELAP Texas		Job #: 880-15198-1	
Address: 4145 Greenbriar Dr			Due Date Requested: 6/3/2022		Analysis Requested	
City: Stafford			TAT Requested (days):		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H-Ascorbic Acid I Ice J DI Water K EDTA L EDA Other M Hexane N None O AsNaO2 P Na2OAS Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecylhydrate U Acetone V MCAA W pH 4-5 X Trizma Z other (specify)	
State, Zip: TX, 77477			PO #:			
Phone: 281-240-4200(Tel)			WO #:			
Email:			Project #:			
Site: CEMC South Kemmit Gas Plant 12583112			SSON#:			
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, ST=Stainless Steel)	Special Instructions/Note:
OW-3-W-220525 (880-15198-1)		5/25/22	10:25 Central		Water	X X
OW-2-W-220525 (880-15198-2)		5/25/22	11:20 Central		Water	X X
MW-19-W-220525 (880-15198-3)		5/25/22	13:25 Central		Water	X X
MW-15-W-220525 (880-15198-4)		5/25/22	14:05 Central		Water	X X
MW-25-W-220525 (880-15198-5)		5/25/22	14:55 Central		Water	X X
Temp 22 IR ID HOU-332 CIF-0.9 1.3 Corrected Temp						
Notes: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analyses/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.						
Possible Hazard Identification Unconfirmed Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months Special Instructions/QC Requirements:						
Date: _____ Relinquished by: <i>Greyhound</i> Relinquished by: <i>Greyhound</i> Relinquished by: <i>Greyhound</i> Custody Seal No. <i>Greyhound</i> Δ Yes Δ No						

Ver- 06/08/2021

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab Pmt. Taylor Holly	Carrier Tracking No(s):	COC No: 880-4497 1
Client Contact Shipping/Receiving		Phone:	E-Mail: Holly Taylor@et.eurofins.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Cent		Accreditations Required (See note): NELAP Texas			
Address: 4145 Greenbriar Dr		Due Date Requested: 6/2/2022	Job #: 880-15214-1		
City: Stafford		TAT Requested (days):	Preservation Codes:		
State, Zip: TX, 77477		PO #:	A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other		
Phone: 281-240-4200(Tel)		WO #:	M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-S Y Trizma Z other (specify)		
Email:		Project #: 88000366			
Site: Affordable Vacuum Service		SSOW#:			
Sample Identification Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (#water, Seawater, Distilled, etc.)
Wash Bay (880-15214-1)		5/25/22	14:30	Central	Water
Special Instructions/Note: Temp 22 IR ID: HOU-332 C/F -0.9 13 Corrected Temp					
Analysis Requested TX 1005/TX 1005_W Prep Standard Let TX 1005_Calc Total BTEX 8082A/360C Standard PCBs 8010C/311T_M RCRA 11 7470A/131T_Hg Mercury 8270D/311T_T TCLP SVOCs 8280C/311T_Z TCLP VOCs					
Special Instructions/Note:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/OC Requirements:					
Method of Shipment:					
Time:					
Reinquisitioned by: _____ Date: _____					
Reinquisitioned by: _____ Date: _____					
Reinquisitioned by: _____ Date: _____					
Custody Seal Intact: _____					
Ver: 06/08/2021					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15230-1

Login Number: 15230

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: 880-15230-1

Login Number: 15230

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 05/27/22 04:33 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

May 10, 2022

Ensolum, LLC

Sample Delivery Group: L1490834
Samples Received: 05/07/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M. Beasley".

Mark W. Beasley
Project Manager

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

**Pace Analytical National**

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

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1490834-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	16	⁸ Gl
Al: Accreditations & Locations	17	
Sc: Sample Chain of Custody	18	⁹ Al
		¹⁰ Sc

LEVEY WELL L1490834-01 Air

Collected by Aaron Marquez
Collected date/time 05/05/22 14:54
Received date/time 05/07/22 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1860597	400	05/08/22 18:21	05/08/22 18:21	MBF	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1860906	2000	05/09/22 21:49	05/09/22 21:49	CEP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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



Mark W. Beasley
Project Manager

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

Laboratory Data Package Cover Page

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

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

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



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 05/10/2022 11:38				
Project Name: Levey Well			Laboratory Job Number: L1490834-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1860597 and WG1860906				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

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

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 05/10/2022 11:38				
Project Name: Levey Well			Laboratory Job Number: L1490834-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1860597 and WG1860906				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 05/10/2022 11:38	
Project Name: Levey Well		Laboratory Job Number: L1490834-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1860597 and WG1860906	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 05/05/22 14:54

L1490834

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	WG1860597
Allyl chloride	107-05-1	76.53	80.0	250	ND	ND		400	WG1860597
Benzene	71-43-2	78.10	80.0	256	ND	ND		400	WG1860597
Benzyl Chloride	100-44-7	127	80.0	416	ND	ND		400	WG1860597
Bromodichloromethane	75-27-4	164	80.0	537	ND	ND		400	WG1860597
Bromoform	75-25-2	253	240	2480	ND	ND		400	WG1860597
Bromomethane	74-83-9	94.90	80.0	311	ND	ND		400	WG1860597
1,3-Butadiene	106-99-0	54.10	800	1770	ND	ND		400	WG1860597
Carbon disulfide	75-15-0	76.10	80.0	249	ND	ND		400	WG1860597
Carbon tetrachloride	56-23-5	154	80.0	504	ND	ND		400	WG1860597
Chlorobenzene	108-90-7	113	80.0	370	ND	ND		400	WG1860597
Chloroethane	75-00-3	64.50	80.0	211	ND	ND		400	WG1860597
Chloroform	67-66-3	119	80.0	389	ND	ND		400	WG1860597
Chloromethane	74-87-3	50.50	80.0	165	ND	ND		400	WG1860597
2-Chlorotoluene	95-49-8	126	80.0	412	ND	ND		400	WG1860597
Cyclohexane	110-82-7	84.20	80.0	276	8860	30500		400	WG1860597
Dibromochloromethane	124-48-1	208	80.0	681	ND	ND		400	WG1860597
1,2-Dibromoethane	106-93-4	188	80.0	615	ND	ND		400	WG1860597
1,2-Dichlorobenzene	95-50-1	147	80.0	481	ND	ND		400	WG1860597
1,3-Dichlorobenzene	541-73-1	147	80.0	481	ND	ND		400	WG1860597
1,4-Dichlorobenzene	106-46-7	147	80.0	481	ND	ND		400	WG1860597
1,2-Dichloroethane	107-06-2	99	80.0	324	ND	ND		400	WG1860597
1,1-Dichloroethane	75-34-3	98	80.0	321	ND	ND		400	WG1860597
1,1-Dichloroethene	75-35-4	96.90	80.0	317	ND	ND		400	WG1860597
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	ND	ND		400	WG1860597
trans-1,2-Dichloroethene	156-60-5	96.90	80.0	317	ND	ND		400	WG1860597
1,2-Dichloropropane	78-87-5	113	80.0	370	ND	ND		400	WG1860597
cis-1,3-Dichloropropene	10061-01-5	111	80.0	363	ND	ND		400	WG1860597
trans-1,3-Dichloropropene	10061-02-6	111	80.0	363	ND	ND		400	WG1860597
1,4-Dioxane	123-91-1	88.10	80.0	288	ND	ND		400	WG1860597
Ethanol	64-17-5	46.10	500	943	ND	ND		400	WG1860597
Ethylbenzene	100-41-4	106	80.0	347	ND	ND		400	WG1860597
4-Ethyltoluene	622-96-8	120	80.0	393	ND	ND		400	WG1860597
Trichlorofluoromethane	75-69-4	137.40	80.0	450	ND	ND		400	WG1860597
Dichlorodifluoromethane	75-71-8	120.92	80.0	396	ND	ND		400	WG1860597
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	80.0	613	ND	ND		400	WG1860597
1,2-Dichlorotetrafluoroethane	76-14-2	171	80.0	560	ND	ND		400	WG1860597
Heptane	142-82-5	100	80.0	327	11500	47000		400	WG1860597
Hexachloro-1,3-butadiene	87-68-3	261	252	2690	ND	ND		400	WG1860597
n-Hexane	110-54-3	86.20	1260	4440	191000	673000		2000	WG1860906
Isopropylbenzene	98-82-8	120.20	80.0	393	ND	ND		400	WG1860597
Methylene Chloride	75-09-2	84.90	80.0	278	ND	ND		400	WG1860597
Methyl Butyl Ketone	591-78-6	100	500	2040	ND	ND		400	WG1860597
2-Butanone (MEK)	78-93-3	72.10	500	1470	ND	ND		400	WG1860597
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	500	2050	ND	ND		400	WG1860597
Methyl methacrylate	80-62-6	100.12	80.0	328	ND	ND		400	WG1860597
MTBE	1634-04-4	88.10	80.0	288	ND	ND		400	WG1860597
Naphthalene	91-20-3	128	252	1320	ND	ND		400	WG1860597
2-Propanol	67-63-0	60.10	500	1230	3620	8900		400	WG1860597
Propene	115-07-1	42.10	500	861	ND	ND		400	WG1860597
Styrene	100-42-5	104	80.0	340	ND	ND		400	WG1860597
1,1,2,2-Tetrachloroethane	79-34-5	168	80.0	550	ND	ND		400	WG1860597
Tetrachloroethylene	127-18-4	166	80.0	543	ND	ND		400	WG1860597
Tetrahydrofuran	109-99-9	72.10	80.0	236	ND	ND		400	WG1860597
Toluene	108-88-3	92.10	200	753	ND	ND		400	WG1860597
1,2,4-Trichlorobenzene	120-82-1	181	252	1870	ND	ND		400	WG1860597



Collected date/time: 05/05/22 14:54

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	WG1860597
1,1,2-Trichloroethane	79-00-5	133	80.0	435	ND	ND		400	WG1860597
Trichloroethylene	79-01-6	131	80.0	429	ND	ND		400	WG1860597
1,2,4-Trimethylbenzene	95-63-6	120	80.0	393	ND	ND		400	WG1860597
1,3,5-Trimethylbenzene	108-67-8	120	80.0	393	ND	ND		400	WG1860597
2,2,4-Trimethylpentane	540-84-1	114.22	80.0	374	ND	ND		400	WG1860597
Vinyl chloride	75-01-4	62.50	80.0	204	ND	ND		400	WG1860597
Vinyl Bromide	593-60-2	106.95	80.0	350	ND	ND		400	WG1860597
Vinyl acetate	108-05-4	86.10	80.0	282	ND	ND		400	WG1860597
m&p-Xylene	1330-20-7	106	160	694	ND	ND		400	WG1860597
o-Xylene	95-47-6	106	80.0	347	ND	ND		400	WG1860597
TPH (GC/MS) Low Fraction	8006-61-9	101	80000	330000	347000	1430000		400	WG1860597
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.4				WG1860597
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.1				WG1860906

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1490834-01

Method Blank (MB)

(MB) R3789533-3 05/08/22 11:06

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1490834-01

Method Blank (MB)

(MB) R3789533-3 05/08/22 11:06

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	0.941		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.253	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	90.6			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3789533-1 05/08/22 09:39 • (LCSD) R3789533-2 05/08/22 10:23

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	4.11	4.21	110	112	70.0-130			2.40	25
Allyl Chloride	3.75	3.88	4.27	103	114	70.0-130			9.57	25
Benzene	3.75	4.33	4.30	115	115	70.0-130			0.695	25
Benzyl Chloride	3.75	4.44	4.57	118	122	70.0-152			2.89	25
Bromodichloromethane	3.75	4.39	4.43	117	118	70.0-130			0.907	25

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

(LCS) R3789533-1 05/08/22 09:39 • (LCSD) R3789533-2 05/08/22 10:23

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	3.75	4.39	4.46	117	119	70.0-130			1.58	25
Bromomethane	3.75	4.12	4.22	110	113	70.0-130			2.40	25
1,3-Butadiene	3.75	4.13	4.16	110	111	70.0-130			0.724	25
Carbon disulfide	3.75	4.04	4.08	108	109	70.0-130			0.985	25
Carbon tetrachloride	3.75	4.53	4.62	121	123	70.0-130			1.97	25
Chlorobenzene	3.75	4.52	4.47	121	119	70.0-130			1.11	25
Chloroethane	3.75	4.48	4.51	119	120	70.0-130			0.667	25
Chloroform	3.75	4.44	4.42	118	118	70.0-130			0.451	25
Chloromethane	3.75	4.29	4.31	114	115	70.0-130			0.465	25
2-Chlorotoluene	3.75	4.49	4.57	120	122	70.0-130			1.77	25
Cyclohexane	3.75	4.50	4.56	120	122	70.0-130			1.32	25
Dibromochloromethane	3.75	4.51	4.48	120	119	70.0-130			0.667	25
1,2-Dibromoethane	3.75	4.43	4.41	118	118	70.0-130			0.452	25
1,2-Dichlorobenzene	3.75	4.63	4.62	123	123	70.0-130			0.216	25
1,3-Dichlorobenzene	3.75	4.52	4.63	121	123	70.0-130			2.40	25
1,4-Dichlorobenzene	3.75	4.66	4.69	124	125	70.0-130			0.642	25
1,2-Dichloroethane	3.75	4.46	4.51	119	120	70.0-130			1.11	25
1,1-Dichloroethane	3.75	4.44	4.39	118	117	70.0-130			1.13	25
1,1-Dichloroethene	3.75	4.47	4.53	119	121	70.0-130			1.33	25
cis-1,2-Dichloroethene	3.75	4.44	4.49	118	120	70.0-130			1.12	25
trans-1,2-Dichloroethene	3.75	4.41	4.50	118	120	70.0-130			2.02	25
1,2-Dichloropropane	3.75	4.29	4.44	114	118	70.0-130			3.44	25
cis-1,3-Dichloropropene	3.75	4.43	4.43	118	118	70.0-130			0.000	25
trans-1,3-Dichloropropene	3.75	4.35	4.42	116	118	70.0-130			1.60	25
1,4-Dioxane	3.75	4.56	4.54	122	121	70.0-140			0.440	25
Ethanol	3.75	3.74	3.77	99.7	101	55.0-148			0.799	25
Ethylbenzene	3.75	4.41	4.50	118	120	70.0-130			2.02	25
4-Ethyltoluene	3.75	4.67	4.56	125	122	70.0-130			2.38	25
Trichlorofluoromethane	3.75	4.58	4.70	122	125	70.0-130			2.59	25
Dichlorodifluoromethane	3.75	4.54	4.47	121	119	64.0-139			1.55	25
1,1,2-Trichlorotrifluoroethane	3.75	4.48	4.51	119	120	70.0-130			0.667	25
1,2-Dichlorotetrafluoroethane	3.75	4.47	4.43	119	118	70.0-130			0.899	25
Heptane	3.75	4.40	4.50	117	120	70.0-130			2.25	25
Hexachloro-1,3-butadiene	3.75	4.86	4.94	130	132	70.0-151			1.63	25
Isopropylbenzene	3.75	4.56	4.58	122	122	70.0-130			0.438	25
Methylene Chloride	3.75	4.01	4.05	107	108	70.0-130			0.993	25
Methyl Butyl Ketone	3.75	4.70	4.74	125	126	70.0-149			0.847	25
Methyl Ethyl Ketone	3.75	4.43	4.41	118	118	70.0-130			0.452	25
4-Methyl-2-pentanone (MIBK)	3.75	4.56	4.61	122	123	70.0-139			1.09	25
Methyl Methacrylate	3.75	4.73	4.51	126	120	70.0-130			4.76	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3789533-1 05/08/22 09:39 • (LCSD) R3789533-2 05/08/22 10:23

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	4.66	4.70	124	125	70.0-130			0.855	25
Naphthalene	3.75	3.65	3.74	97.3	99.7	70.0-159			2.44	25
2-Propanol	3.75	4.34	4.49	116	120	70.0-139			3.40	25
Propene	3.75	3.98	3.84	106	102	64.0-144			3.58	25
Styrene	3.75	4.41	4.51	118	120	70.0-130			2.24	25
1,1,2,2-Tetrachloroethane	3.75	4.16	4.33	111	115	70.0-130			4.00	25
Tetrachloroethylene	3.75	4.84	4.63	129	123	70.0-130			4.44	25
Tetrahydrofuran	3.75	4.44	4.38	118	117	70.0-137			1.36	25
Toluene	3.75	4.35	4.42	116	118	70.0-130			1.60	25
1,2,4-Trichlorobenzene	3.75	3.57	3.61	95.2	96.3	70.0-160			1.11	25
1,1,1-Trichloroethane	3.75	4.55	4.58	121	122	70.0-130			0.657	25
1,1,2-Trichloroethane	3.75	4.40	4.37	117	117	70.0-130			0.684	25
Trichloroethylene	3.75	4.43	4.51	118	120	70.0-130			1.79	25
1,2,4-Trimethylbenzene	3.75	4.53	4.53	121	121	70.0-130			0.000	25
1,3,5-Trimethylbenzene	3.75	4.55	4.76	121	127	70.0-130			4.51	25
2,2,4-Trimethylpentane	3.75	4.44	4.55	118	121	70.0-130			2.45	25
Vinyl chloride	3.75	4.28	4.31	114	115	70.0-130			0.698	25
Vinyl Bromide	3.75	4.53	4.59	121	122	70.0-130			1.32	25
Vinyl acetate	3.75	4.06	4.09	108	109	70.0-130			0.736	25
m&p-Xylene	7.50	9.13	9.13	122	122	70.0-130			0.000	25
o-Xylene	3.75	4.51	4.50	120	120	70.0-130			0.222	25
TPH (GC/MS) Low Fraction	203	244	250	120	123	70.0-130			2.43	25
(S) 1,4-Bromofluorobenzene				94.3	96.1	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1490834-01](#)

Method Blank (MB)

(MB) R3789975-3 05/09/22 10:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
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) R3789975-1 05/09/22 09:16 • (LCSD) R3789975-2 05/09/22 09:59

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.68	4.66	125	124	70.0-130			0.428	25
(S) 1,4-Bromofluorobenzene				97.0	97.1	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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:		Pres Chk	Analysis / Container / Preservative										Chain of Custody Page 1 of 1					
		Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220													 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 # 4490834 D066					
Report to: Beaux Jennings		Email To: bjennings@ensolum.com																		
Project Description: <i>Levey Well</i>		City/State Collected: <i>Hobbs, NM</i>		Please Circle: PT MT <u>CT</u> ET																
Phone: 210-219-8858		Client Project # <i>03B1417001</i>		Lab Project # ENSOLUMTX-SUMMA																
Collected by (print): <i>Patron Marquez</i>		Site/Facility ID # <i>03B1417001</i>		P.O. # <i>03B1417001</i>																
Collected by (signature): <i>[Signature]</i>		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day		Quote #																
Immediately Packed on Ice ☐ N ☐ Y				Date Results Needed																
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs													
<i>Levey Well</i>		<i>G</i>	<i>Air</i>	<i>-</i>	<i>5-5-22</i>	<i>1454</i>	<i>1</i>	<i>X</i>												
<del> NFE AAM 5-5-22 </del>																				
* 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 # <i>57196177 2694</i>																		
Relinquished by: (Signature) <i>[Signature]</i>		Date: <i>5-6-22</i>	Time: <i>0845</i>	Received by: (Signature) <i>[Signature]</i>		Trip Blank Received: Yes/No HCL/MeOH TBR														
Relinquished by: (Signature) <i>[Signature]</i>		Date: <i>5/6/22</i>	Time: <i>1700</i>	Received by: (Signature) <i>FedEx</i>		Temp: <i>AMB</i> °C Bottles Received: <i>1</i>														
Relinquished by: (Signature) <i>[Signature]</i>		Date:	Time:	Received for lab by: (Signature) <i>P. Ramirez</i>		Date: <i>5-7-22</i> Time: <i>945</i>												Hold: _____ Condition: <u>NCF</u> / <u>OK</u>		



ANALYTICAL REPORT

May 16, 2022

Ensolum, LLC

Sample Delivery Group: L1492194
Samples Received: 05/11/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701



Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M. Beasley".

Mark W. Beasley
Project Manager

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

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

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LEVEY WELL L1492194-01 Air

Collected by
Shane Diller

Collected date/time
05/09/22 09:58

Received date/time
05/11/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1862881	400	05/13/22 01:39	05/13/22 01:39	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1863339	8000	05/13/22 21:06	05/13/22 21:06	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

LEVEY WELL L1492194-02 Air

Collected by
Shane Diller

Collected date/time
05/09/22 10:20

Received date/time
05/11/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1862881	1	05/13/22 00:16	05/13/22 00:16	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1863339	50	05/13/22 21:43	05/13/22 21:43	DAH	Mt. Juliet, TN

⁴Cn

⁵Tr

⁶Sr

LEVEY WELL L1492194-03 Air

Collected by
Shane Diller

Collected date/time
05/09/22 10:57

Received date/time
05/11/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1862881	1	05/13/22 00:59	05/13/22 00:59	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1863339	10	05/13/22 22:20	05/13/22 22:20	DAH	Mt. Juliet, TN

⁷Qc

⁸Gl

⁹Al

LEVEY WELL L1492194-04 Air

Collected by
Shane Diller

Collected date/time
05/09/22 12:18

Received date/time
05/11/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1863397	1	05/13/22 19:39	05/13/22 19:39	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1863859	20	05/14/22 22:25	05/14/22 22:25	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1864495	200	05/16/22 14:06	05/16/22 14:06	DAH	Mt. Juliet, TN

¹⁰Sc

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



Mark W. Beasley
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Data Package Cover Page

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

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

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



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 05/16/2022 16:37				
Project Name: Levey Well			Laboratory Job Number: L1492194-01, 02, 03 and 04				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1862881, WG1863339, WG1863397, WG1863859 and WG1864495				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?		X			1
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

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

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 05/16/2022 16:37					
Project Name: Levey Well		Laboratory Job Number: L1492194-01, 02, 03 and 04					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1862881, WG1863339, WG1863397, WG1863859 and WG1864495					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 05/16/2022 16:37
Project Name: Levey Well		Laboratory Job Number: L1492194-01, 02, 03 and 04
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1862881, WG1863339, WG1863397, WG1863859 and WG1864495
ER #¹	Description	
1	TO-15 WG1862881 L1492194-02: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).	
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).		

Collected date/time: 05/09/22 09:58

L1492194

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	WG1862881
Allyl chloride	107-05-1	76.53	80.0	250	ND	ND		400	WG1862881
Benzene	71-43-2	78.10	80.0	256	ND	ND		400	WG1862881
Benzyl Chloride	100-44-7	127	80.0	416	ND	ND		400	WG1862881
Bromodichloromethane	75-27-4	164	80.0	537	ND	ND		400	WG1862881
Bromoform	75-25-2	253	240	2480	ND	ND		400	WG1862881
Bromomethane	74-83-9	94.90	80.0	311	ND	ND		400	WG1862881
1,3-Butadiene	106-99-0	54.10	800	1770	ND	ND		400	WG1862881
Carbon disulfide	75-15-0	76.10	80.0	249	ND	ND		400	WG1862881
Carbon tetrachloride	56-23-5	154	80.0	504	ND	ND		400	WG1862881
Chlorobenzene	108-90-7	113	80.0	370	ND	ND		400	WG1862881
Chloroethane	75-00-3	64.50	80.0	211	ND	ND		400	WG1862881
Chloroform	67-66-3	119	80.0	389	ND	ND		400	WG1862881
Chloromethane	74-87-3	50.50	80.0	165	ND	ND		400	WG1862881
2-Chlorotoluene	95-49-8	126	80.0	412	ND	ND		400	WG1862881
Cyclohexane	110-82-7	84.20	80.0	276	14300	49200		400	WG1862881
Dibromochloromethane	124-48-1	208	80.0	681	ND	ND		400	WG1862881
1,2-Dibromoethane	106-93-4	188	80.0	615	ND	ND		400	WG1862881
1,2-Dichlorobenzene	95-50-1	147	80.0	481	ND	ND		400	WG1862881
1,3-Dichlorobenzene	541-73-1	147	80.0	481	ND	ND		400	WG1862881
1,4-Dichlorobenzene	106-46-7	147	80.0	481	ND	ND		400	WG1862881
1,2-Dichloroethane	107-06-2	99	80.0	324	ND	ND		400	WG1862881
1,1-Dichloroethane	75-34-3	98	80.0	321	ND	ND		400	WG1862881
1,1-Dichloroethene	75-35-4	96.90	80.0	317	ND	ND		400	WG1862881
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	ND	ND		400	WG1862881
trans-1,2-Dichloroethene	156-60-5	96.90	80.0	317	ND	ND		400	WG1862881
1,2-Dichloropropane	78-87-5	113	80.0	370	ND	ND		400	WG1862881
cis-1,3-Dichloropropene	10061-01-5	111	80.0	363	ND	ND		400	WG1862881
trans-1,3-Dichloropropene	10061-02-6	111	80.0	363	ND	ND		400	WG1862881
1,4-Dioxane	123-91-1	88.10	80.0	288	ND	ND		400	WG1862881
Ethanol	64-17-5	46.10	500	943	1410	2660		400	WG1862881
Ethylbenzene	100-41-4	106	80.0	347	ND	ND		400	WG1862881
4-Ethyltoluene	622-96-8	120	80.0	393	ND	ND		400	WG1862881
Trichlorofluoromethane	75-69-4	137.40	80.0	450	ND	ND		400	WG1862881
Dichlorodifluoromethane	75-71-8	120.92	80.0	396	ND	ND		400	WG1862881
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	80.0	613	ND	ND		400	WG1862881
1,2-Dichlorotetrafluoroethane	76-14-2	171	80.0	560	ND	ND		400	WG1862881
Heptane	142-82-5	100	80.0	327	16200	66300		400	WG1862881
Hexachloro-1,3-butadiene	87-68-3	261	252	2690	ND	ND		400	WG1862881
n-Hexane	110-54-3	86.20	5040	17800	241000	850000		8000	WG1863339
Isopropylbenzene	98-82-8	120.20	80.0	393	ND	ND		400	WG1862881
Methylene Chloride	75-09-2	84.90	80.0	278	ND	ND		400	WG1862881
Methyl Butyl Ketone	591-78-6	100	500	2040	ND	ND		400	WG1862881
2-Butanone (MEK)	78-93-3	72.10	500	1470	1180	3480		400	WG1862881
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	500	2050	ND	ND		400	WG1862881
Methyl methacrylate	80-62-6	100.12	80.0	328	ND	ND		400	WG1862881
MTBE	1634-04-4	88.10	80.0	288	ND	ND		400	WG1862881
Naphthalene	91-20-3	128	252	1320	ND	ND		400	WG1862881
2-Propanol	67-63-0	60.10	500	1230	10600	26100		400	WG1862881
Propene	115-07-1	42.10	500	861	ND	ND		400	WG1862881
Styrene	100-42-5	104	80.0	340	ND	ND		400	WG1862881
1,1,2,2-Tetrachloroethane	79-34-5	168	80.0	550	ND	ND		400	WG1862881
Tetrachloroethylene	127-18-4	166	80.0	543	ND	ND		400	WG1862881
Tetrahydrofuran	109-99-9	72.10	80.0	236	ND	ND		400	WG1862881
Toluene	108-88-3	92.10	200	753	ND	ND		400	WG1862881
1,2,4-Trichlorobenzene	120-82-1	181	252	1870	ND	ND		400	WG1862881



Collected date/time: 05/09/22 09:58

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	80.0	435	ND	ND		400	WG1862881
1,1,2-Trichloroethane	79-00-5	133	80.0	435	ND	ND		400	WG1862881
Trichloroethylene	79-01-6	131	80.0	429	ND	ND		400	WG1862881
1,2,4-Trimethylbenzene	95-63-6	120	80.0	393	ND	ND		400	WG1862881
1,3,5-Trimethylbenzene	108-67-8	120	80.0	393	ND	ND		400	WG1862881
2,2,4-Trimethylpentane	540-84-1	114.22	80.0	374	ND	ND		400	WG1862881
Vinyl chloride	75-01-4	62.50	80.0	204	ND	ND		400	WG1862881
Vinyl Bromide	593-60-2	106.95	80.0	350	ND	ND		400	WG1862881
Vinyl acetate	108-05-4	86.10	80.0	282	ND	ND		400	WG1862881
m&p-Xylene	1330-20-7	106	160	694	ND	ND		400	WG1862881
o-Xylene	95-47-6	106	80.0	347	ND	ND		400	WG1862881
TPH (GC/MS) Low Fraction	8006-61-9	101	80000	330000	577000	2380000		400	WG1862881
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG1862881
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.6				WG1863339

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Collected date/time: 05/09/22 10:20

L1492194

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	140	333	E	1	WG1862881
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1862881
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1862881
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1862881
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1862881
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1862881
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1862881
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1862881
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.430	1.34		1	WG1862881
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1862881
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1862881
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1862881
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1862881
Chloromethane	74-87-3	50.50	0.200	0.413	0.875	1.81		1	WG1862881
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1862881
Cyclohexane	110-82-7	84.20	10.0	34.4	289	995		50	WG1863339
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1862881
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1862881
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1862881
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1862881
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1862881
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1862881
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1862881
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1862881
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1862881
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1862881
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1862881
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1862881
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1862881
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1862881
Ethanol	64-17-5	46.10	1.25	2.36	22.5	42.4		1	WG1862881
Ethylbenzene	100-41-4	106	0.200	0.867	0.939	4.07		1	WG1862881
4-Ethyltoluene	622-96-8	120	0.200	0.982	3.49	17.1		1	WG1862881
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1862881
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.243	1.20		1	WG1862881
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1862881
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1862881
Heptane	142-82-5	100	10.0	40.9	618	2530		50	WG1863339
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1862881
n-Hexane	110-54-3	86.20	31.5	111	2490	8780		50	WG1863339
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1862881
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1862881
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1862881
2-Butanone (MEK)	78-93-3	72.10	62.5	184	69.0	203		50	WG1863339
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1862881
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1862881
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1862881
Naphthalene	91-20-3	128	0.630	3.30	0.973	5.09		1	WG1862881
2-Propanol	67-63-0	60.10	1.25	3.07	31.0	76.2		1	WG1862881
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1862881
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1862881
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1862881
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1862881
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1862881
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1862881
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1862881

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/09/22 10:20

L1492194

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	WG1862881
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1862881
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1862881
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.63	12.9		1	WG1862881
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	4.23	20.8		1	WG1862881
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1862881
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1862881
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1862881
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1862881
m&p-Xylene	1330-20-7	106	0.400	1.73	1.62	7.02		1	WG1862881
o-Xylene	95-47-6	106	0.200	0.867	1.37	5.94		1	WG1862881
TPH (GC/MS) Low Fraction	8006-61-9	101	10000	41300	13100	54100		50	WG1863339
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		105				WG1862881
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.6				WG1863339

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/09/22 10:57

L1492194

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	38.2	90.8		1	WG1862881
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1862881
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1862881
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1862881
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1862881
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1862881
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1862881
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1862881
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1862881
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1862881
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1862881
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1862881
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1862881
Chloromethane	74-87-3	50.50	0.200	0.413	1.38	2.85		1	WG1862881
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1862881
Cyclohexane	110-82-7	84.20	0.200	0.689	46.1	159		1	WG1862881
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1862881
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1862881
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1862881
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1862881
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1862881
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1862881
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1862881
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1862881
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1862881
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1862881
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1862881
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1862881
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1862881
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1862881
Ethanol	64-17-5	46.10	1.25	2.36	7.05	13.3		1	WG1862881
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1862881
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.220	1.08		1	WG1862881
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.234	1.31		1	WG1862881
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.365	1.81		1	WG1862881
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1862881
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1862881
Heptane	142-82-5	100	0.200	0.818	94.2	385		1	WG1862881
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1862881
n-Hexane	110-54-3	86.20	6.30	22.2	294	1040		10	WG1863339
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1862881
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1862881
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1862881
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	11.4	33.6		1	WG1862881
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1862881
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1862881
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1862881
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1862881
2-Propanol	67-63-0	60.10	1.25	3.07	5.57	13.7		1	WG1862881
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1862881
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1862881
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1862881
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1862881
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1862881
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1862881
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1862881

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/09/22 10:57

L1492194

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	WG1862881
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1862881
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1862881
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.314	1.54		1	WG1862881
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.521	2.56		1	WG1862881
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1862881
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1862881
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1862881
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1862881
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1862881
o-Xylene	95-47-6	106	0.200	0.867	0.238	1.03		1	WG1862881
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	1990	8220		1	WG1862881
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.2				WG1862881
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.8				WG1863339

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 05/09/22 12:18

L1492194

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	54.8	130		20	WG1863859
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1863397
Benzene	71-43-2	78.10	0.200	0.639	0.442	1.41		1	WG1863397
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1863397
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1863397
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1863397
Bromomethane	74-83-9	94.90	0.200	0.776	1.76	6.83		1	WG1863397
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1863397
Carbon disulfide	75-15-0	76.10	0.200	0.622	9.97	31.0		1	WG1863397
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1863397
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1863397
Chloroethane	75-00-3	64.50	0.200	0.528	10.6	28.0		1	WG1863397
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1863397
Chloromethane	74-87-3	50.50	0.200	0.413	7.51	15.5		1	WG1863397
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1863397
Cyclohexane	110-82-7	84.20	4.00	13.8	898	3090		20	WG1863859
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1863397
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1863397
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1863397
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1863397
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1863397
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1863397
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1863397
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1863397
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1863397
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1863397
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1863397
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1863397
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1863397
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1863397
Ethanol	64-17-5	46.10	1.25	2.36	17.1	32.2		1	WG1863397
Ethylbenzene	100-41-4	106	0.200	0.867	0.861	3.73		1	WG1863397
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.43	7.02		1	WG1863397
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1863397
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG1863397
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1863397
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1863397
Heptane	142-82-5	100	4.00	16.4	1530	6260		20	WG1863859
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1863397
n-Hexane	110-54-3	86.20	126	444	1370	4830		200	WG1864495
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.326	1.60		1	WG1863397
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1863397
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1863397
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	65.4	193		1	WG1863397
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1863397
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1863397
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1863397
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1863397
2-Propanol	67-63-0	60.10	25.0	61.5	164	403		20	WG1863859
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1863397
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1863397
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1863397
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1863397
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1863397
Toluene	108-88-3	92.10	0.500	1.88	1.69	6.37		1	WG1863397
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1863397

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/09/22 12:18

L1492194

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	WG1863397
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1863397
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1863397
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.75	8.59		1	WG1863397
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	3.09	15.2		1	WG1863397
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1863397
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1863397
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1863397
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1863397
m&p-Xylene	1330-20-7	106	0.400	1.73	1.30	5.64		1	WG1863397
o-Xylene	95-47-6	106	0.200	0.867	1.16	5.03		1	WG1863397
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	29900	124000		20	WG1863859
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		116				WG1863397
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				WG1863859
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.2				WG1864495

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R3791236-3 05/12/22 10:04

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1492194-01,02,03

Method Blank (MB)

(MB) R3791236-3 05/12/22 10:04

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	95.0			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3791236-1 05/12/22 08:39 • (LCSD) R3791236-2 05/12/22 09:22

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	3.83	4.02	102	107	70.0-130			4.84	25
Allyl Chloride	3.75	3.18	3.82	84.8	102	70.0-130			18.3	25
Benzene	3.75	3.77	3.74	101	99.7	70.0-130			0.799	25
Benzyl Chloride	3.75	3.96	4.05	106	108	70.0-152			2.25	25
Bromodichloromethane	3.75	3.79	3.78	101	101	70.0-130			0.264	25

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

(LCS) R3791236-1 05/12/22 08:39 • (LCSD) R3791236-2 05/12/22 09:22

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	3.75	3.92	4.04	105	108	70.0-130			3.02	25
Bromomethane	3.75	3.86	3.90	103	104	70.0-130			1.03	25
1,3-Butadiene	3.75	3.66	3.95	97.6	105	70.0-130			7.62	25
Carbon disulfide	3.75	3.87	3.78	103	101	70.0-130			2.35	25
Carbon tetrachloride	3.75	3.80	3.87	101	103	70.0-130			1.83	25
Chlorobenzene	3.75	3.81	3.83	102	102	70.0-130			0.524	25
Chloroethane	3.75	3.94	3.91	105	104	70.0-130			0.764	25
Chloroform	3.75	3.79	3.85	101	103	70.0-130			1.57	25
Chloromethane	3.75	3.92	3.81	105	102	70.0-130			2.85	25
2-Chlorotoluene	3.75	3.76	3.83	100	102	70.0-130			1.84	25
Cyclohexane	3.75	3.82	3.83	102	102	70.0-130			0.261	25
Dibromochloromethane	3.75	3.87	3.87	103	103	70.0-130			0.000	25
1,2-Dibromoethane	3.75	3.78	3.76	101	100	70.0-130			0.531	25
1,2-Dichlorobenzene	3.75	3.75	3.99	100	106	70.0-130			6.20	25
1,3-Dichlorobenzene	3.75	3.80	3.90	101	104	70.0-130			2.60	25
1,4-Dichlorobenzene	3.75	3.82	3.90	102	104	70.0-130			2.07	25
1,2-Dichloroethane	3.75	3.83	3.93	102	105	70.0-130			2.58	25
1,1-Dichloroethane	3.75	3.80	3.90	101	104	70.0-130			2.60	25
1,1-Dichloroethene	3.75	3.75	3.86	100	103	70.0-130			2.89	25
cis-1,2-Dichloroethene	3.75	3.85	3.90	103	104	70.0-130			1.29	25
trans-1,2-Dichloroethene	3.75	3.84	3.89	102	104	70.0-130			1.29	25
1,2-Dichloropropane	3.75	3.69	3.76	98.4	100	70.0-130			1.88	25
cis-1,3-Dichloropropene	3.75	3.83	3.90	102	104	70.0-130			1.81	25
trans-1,3-Dichloropropene	3.75	3.90	3.93	104	105	70.0-130			0.766	25
1,4-Dioxane	3.75	3.72	3.83	99.2	102	70.0-140			2.91	25
Ethanol	3.75	3.62	3.72	96.5	99.2	55.0-148			2.72	25
Ethylbenzene	3.75	3.86	3.89	103	104	70.0-130			0.774	25
4-Ethyltoluene	3.75	3.76	3.93	100	105	70.0-130			4.42	25
Trichlorofluoromethane	3.75	3.87	3.90	103	104	70.0-130			0.772	25
Dichlorodifluoromethane	3.75	3.70	3.73	98.7	99.5	64.0-139			0.808	25
1,1,2-Trichlorotrifluoroethane	3.75	3.82	3.81	102	102	70.0-130			0.262	25
1,2-Dichlorotetrafluoroethane	3.75	3.87	3.93	103	105	70.0-130			1.54	25
Heptane	3.75	3.60	3.56	96.0	94.9	70.0-130			1.12	25
Hexachloro-1,3-butadiene	3.75	3.87	3.96	103	106	70.0-151			2.30	25
Isopropylbenzene	3.75	3.74	3.84	99.7	102	70.0-130			2.64	25
Methylene Chloride	3.75	3.56	3.53	94.9	94.1	70.0-130			0.846	25
Methyl Butyl Ketone	3.75	3.90	4.08	104	109	70.0-149			4.51	25
Methyl Ethyl Ketone	3.75	3.94	4.03	105	107	70.0-130			2.26	25
4-Methyl-2-pentanone (MIBK)	3.75	3.94	3.91	105	104	70.0-139			0.764	25
Methyl Methacrylate	3.75	3.91	3.84	104	102	70.0-130			1.81	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1492194-01,02,03

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

(LCS) R3791236-1 05/12/22 08:39 • (LCSD) R3791236-2 05/12/22 09:22

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	3.78	3.78	101	101	70.0-130			0.000	25
Naphthalene	3.75	3.62	3.68	96.5	98.1	70.0-159			1.64	25
2-Propanol	3.75	3.79	3.86	101	103	70.0-139			1.83	25
Propene	3.75	3.99	4.15	106	111	64.0-144			3.93	25
Styrene	3.75	3.88	3.93	103	105	70.0-130			1.28	25
1,1,2,2-Tetrachloroethane	3.75	3.82	3.91	102	104	70.0-130			2.33	25
Tetrachloroethylene	3.75	3.82	3.79	102	101	70.0-130			0.788	25
Tetrahydrofuran	3.75	3.83	4.00	102	107	70.0-137			4.34	25
Toluene	3.75	3.75	3.89	100	104	70.0-130			3.66	25
1,2,4-Trichlorobenzene	3.75	3.80	3.96	101	106	70.0-160			4.12	25
1,1,1-Trichloroethane	3.75	3.83	3.77	102	101	70.0-130			1.58	25
1,1,2-Trichloroethane	3.75	3.76	3.83	100	102	70.0-130			1.84	25
Trichloroethylene	3.75	3.76	3.90	100	104	70.0-130			3.66	25
1,2,4-Trimethylbenzene	3.75	3.95	4.05	105	108	70.0-130			2.50	25
1,3,5-Trimethylbenzene	3.75	3.96	3.91	106	104	70.0-130			1.27	25
2,2,4-Trimethylpentane	3.75	3.84	3.82	102	102	70.0-130			0.522	25
Vinyl chloride	3.75	3.75	3.79	100	101	70.0-130			1.06	25
Vinyl Bromide	3.75	3.84	3.77	102	101	70.0-130			1.84	25
Vinyl acetate	3.75	3.85	3.88	103	103	70.0-130			0.776	25
m&p-Xylene	7.50	7.64	7.73	102	103	70.0-130			1.17	25
o-Xylene	3.75	3.78	3.86	101	103	70.0-130			2.09	25
TPH (GC/MS) Low Fraction	203	219	225	108	111	70.0-130			2.70	25
(S) 1,4-Bromofluorobenzene				99.4	101	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3791673-3 05/13/22 10:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
2-Butanone (MEK)	U		0.0814	1.25
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	99.5			60.0-140

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

(LCS) R3791673-1 05/13/22 09:15 • (LCSD) R3791673-2 05/13/22 09:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Cyclohexane	3.75	3.76	3.80	100	101	70.0-130			1.06	25
Heptane	3.75	3.93	3.96	105	106	70.0-130			0.760	25
n-Hexane	3.75	3.66	3.72	97.6	99.2	70.0-130			1.63	25
Methyl Ethyl Ketone	3.75	3.76	3.84	100	102	70.0-130			2.11	25
TPH (GC/MS) Low Fraction	203	208	212	102	104	70.0-130			1.90	25
(S) 1,4-Bromofluorobenzene				100	99.7	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3791765-3 05/13/22 09:32

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
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
2-Butanone (MEK)	U		0.0814	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1492194-04

Method Blank (MB)

(MB) R3791765-3 05/13/22 09:32

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	96.5			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3791765-1 05/13/22 08:34 • (LCSD) R3791765-2 05/13/22 09:03

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Allyl Chloride	3.75	3.87	3.78	103	101	70.0-130			2.35	25
Benzene	3.75	3.66	3.60	97.6	96.0	70.0-130			1.65	25
Benzyl Chloride	3.75	3.97	3.90	106	104	70.0-152			1.78	25
Bromodichloromethane	3.75	3.74	3.67	99.7	97.9	70.0-130			1.89	25
Bromoform	3.75	3.96	3.85	106	103	70.0-130			2.82	25
Bromomethane	3.75	3.54	3.55	94.4	94.7	70.0-130			0.282	25
1,3-Butadiene	3.75	3.76	3.63	100	96.8	70.0-130			3.52	25
Carbon disulfide	3.75	3.85	3.81	103	102	70.0-130			1.04	25
Carbon tetrachloride	3.75	3.68	3.67	98.1	97.9	70.0-130			0.272	25
Chlorobenzene	3.75	3.68	3.64	98.1	97.1	70.0-130			1.09	25

Volatile Organic Compounds (MS) by Method TO-15

L1492194-04

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

(LCS) R3791765-1 05/13/22 08:34 • (LCSD) R3791765-2 05/13/22 09:03

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroethane	3.75	3.52	3.54	93.9	94.4	70.0-130			0.567	25
Chloroform	3.75	3.75	3.73	100	99.5	70.0-130			0.535	25
Chloromethane	3.75	3.54	3.49	94.4	93.1	70.0-130			1.42	25
2-Chlorotoluene	3.75	3.97	3.88	106	103	70.0-130			2.29	25
Dibromochloromethane	3.75	3.89	3.81	104	102	70.0-130			2.08	25
1,2-Dibromoethane	3.75	3.76	3.78	100	101	70.0-130			0.531	25
1,2-Dichlorobenzene	3.75	3.91	3.84	104	102	70.0-130			1.81	25
1,3-Dichlorobenzene	3.75	3.98	3.95	106	105	70.0-130			0.757	25
1,4-Dichlorobenzene	3.75	4.06	4.01	108	107	70.0-130			1.24	25
1,2-Dichloroethane	3.75	3.71	3.68	98.9	98.1	70.0-130			0.812	25
1,1-Dichloroethane	3.75	3.61	3.62	96.3	96.5	70.0-130			0.277	25
1,1-Dichloroethene	3.75	3.80	3.76	101	100	70.0-130			1.06	25
cis-1,2-Dichloroethene	3.75	3.75	3.73	100	99.5	70.0-130			0.535	25
trans-1,2-Dichloroethene	3.75	3.80	3.80	101	101	70.0-130			0.000	25
1,2-Dichloropropane	3.75	3.62	3.61	96.5	96.3	70.0-130			0.277	25
cis-1,3-Dichloropropene	3.75	3.78	3.66	101	97.6	70.0-130			3.23	25
trans-1,3-Dichloropropene	3.75	3.84	3.76	102	100	70.0-130			2.11	25
1,4-Dioxane	3.75	3.76	3.70	100	98.7	70.0-140			1.61	25
Ethanol	3.75	3.51	3.47	93.6	92.5	55.0-148			1.15	25
Ethylbenzene	3.75	3.92	3.88	105	103	70.0-130			1.03	25
4-Ethyltoluene	3.75	4.19	4.13	112	110	70.0-130			1.44	25
Trichlorofluoromethane	3.75	3.67	3.63	97.9	96.8	70.0-130			1.10	25
Dichlorodifluoromethane	3.75	3.66	3.62	97.6	96.5	64.0-139			1.10	25
1,1,2-Trichlorotrifluoroethane	3.75	3.80	3.75	101	100	70.0-130			1.32	25
1,2-Dichlorotetrafluoroethane	3.75	3.67	3.63	97.9	96.8	70.0-130			1.10	25
Hexachloro-1,3-butadiene	3.75	3.93	3.93	105	105	70.0-151			0.000	25
Isopropylbenzene	3.75	3.94	3.85	105	103	70.0-130			2.31	25
Methylene Chloride	3.75	3.67	3.54	97.9	94.4	70.0-130			3.61	25
Methyl Butyl Ketone	3.75	4.10	4.05	109	108	70.0-149			1.23	25
Methyl Ethyl Ketone	3.75	3.76	3.76	100	100	70.0-130			0.000	25
4-Methyl-2-pentanone (MIBK)	3.75	4.13	4.03	110	107	70.0-139			2.45	25
Methyl Methacrylate	3.75	3.88	3.79	103	101	70.0-130			2.35	25
MTBE	3.75	3.74	3.72	99.7	99.2	70.0-130			0.536	25
Naphthalene	3.75	4.48	4.40	119	117	70.0-159			1.80	25
Propene	3.75	3.71	3.66	98.9	97.6	64.0-144			1.36	25
Styrene	3.75	4.10	4.02	109	107	70.0-130			1.97	25
1,1,2,2-Tetrachloroethane	3.75	3.94	3.83	105	102	70.0-130			2.83	25
Tetrachloroethylene	3.75	3.76	3.71	100	98.9	70.0-130			1.34	25
Tetrahydrofuran	3.75	3.89	3.87	104	103	70.0-137			0.515	25
Toluene	3.75	3.85	3.84	103	102	70.0-130			0.260	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3791765-1 05/13/22 08:34 • (LCSD) R3791765-2 05/13/22 09:03

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2,4-Trichlorobenzene	3.75	4.12	4.06	110	108	70.0-160			1.47	25
1,1,1-Trichloroethane	3.75	3.69	3.69	98.4	98.4	70.0-130			0.000	25
1,1,2-Trichloroethane	3.75	3.61	3.63	96.3	96.8	70.0-130			0.552	25
Trichloroethylene	3.75	3.71	3.71	98.9	98.9	70.0-130			0.000	25
1,2,4-Trimethylbenzene	3.75	4.37	4.31	117	115	70.0-130			1.38	25
1,3,5-Trimethylbenzene	3.75	4.19	4.13	112	110	70.0-130			1.44	25
2,2,4-Trimethylpentane	3.75	3.81	3.83	102	102	70.0-130			0.524	25
Vinyl chloride	3.75	3.60	3.57	96.0	95.2	70.0-130			0.837	25
Vinyl Bromide	3.75	3.61	3.58	96.3	95.5	70.0-130			0.834	25
Vinyl acetate	3.75	3.85	3.76	103	100	70.0-130			2.37	25
m&p-Xylene	7.50	8.35	8.25	111	110	70.0-130			1.20	25
o-Xylene	3.75	4.11	4.05	110	108	70.0-130			1.47	25
(S) 1,4-Bromofluorobenzene				102	102	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3791973-3 05/14/22 07:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.25
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
2-Propanol	U		0.264	1.25
TPH (GC/MS) Low Fraction	59.7	⌵	39.7	200
(S) 1,4-Bromofluorobenzene	97.5			60.0-140

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

(LCS) R3791973-1 05/14/22 06:09 • (LCSD) R3791973-2 05/14/22 06:41

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.82	3.46	102	92.3	70.0-130			9.89	25
Cyclohexane	3.75	4.06	3.89	108	104	70.0-130			4.28	25
Heptane	3.75	3.94	4.09	105	109	70.0-130			3.74	25
2-Propanol	3.75	3.97	3.95	106	105	70.0-139			0.505	25
TPH (GC/MS) Low Fraction	203	262	260	129	128	70.0-130			0.766	25
(S) 1,4-Bromofluorobenzene				105	101	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1492194-04](#)

Method Blank (MB)

(MB) R3792321-3 05/16/22 11:52

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	94.1			60.0-140

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

(LCS) R3792321-1 05/16/22 10:30 • (LCSD) R3792321-2 05/16/22 11:12

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.51	4.50	120	120	70.0-130			0.222	25
(S) 1,4-Bromofluorobenzene				98.2	98.7	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

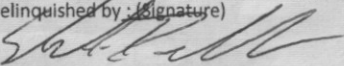
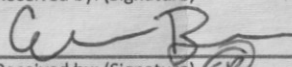
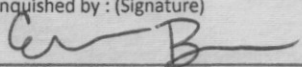
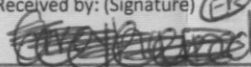
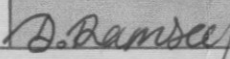
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina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

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

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

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



Company Name/Address: Ensolum, LLC 705 W. Wadley Ave, Ste 210 Midland, TX 79705				Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220				Analysis / Container / Preservative				Chain of Custody Page ____ of ____					
Report to: Beaux Jennings				Email To: bjennings@ensolum.com				Pres Chk				 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 # 61492194 D154					
Project Description: Levey Well				City/State Collected: Hobbs NM				Please Circle: PT MT CT ET				TO-15 Summa Acctnum: ENSOLUMMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB: Shipped Via:					
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMMTX-SUMMA		P.O. # 03B1417001		Quote #		Date Results Needed						No. of Cntrs	
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day		Immediately Packed on Ice N ☐ X ☐ Y ☐											
Sample ID		Comp/Grab		Matrix *		Depth		Date		Time							
Levey Well		G		Air		-		5-9-22		0958						1 X	
Levey Well		G		Air		-		5-9-22		1020		1 X					
Levey Well		G		Air		-		5-9-22		1057		1 X					
Levey Well		G		Air		-		5-9-22		1218		1 X					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____																	
Remarks: Samples returned via: _____ Tracking # 5719 6177 8536 pH _____ Temp _____ Flow _____ Other _____																	
Relinquished by: (Signature) 				Date: 5/10/22		Time: 10:30		Received by: (Signature) 				Trip Blank Received: Yes/No HCL/MeOH TBR		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: 5/10/22		Time: 1700		Received by: (Signature) FedEx 				Temp: °C AMB		Bottles Received: 4		If preservation required by Login: Date/Time	
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) 				Date: 5-11-22		Time: 930		Hold: Condition NCF ☒ OK	



ANALYTICAL REPORT

May 27, 2022

Ensolum, LLC

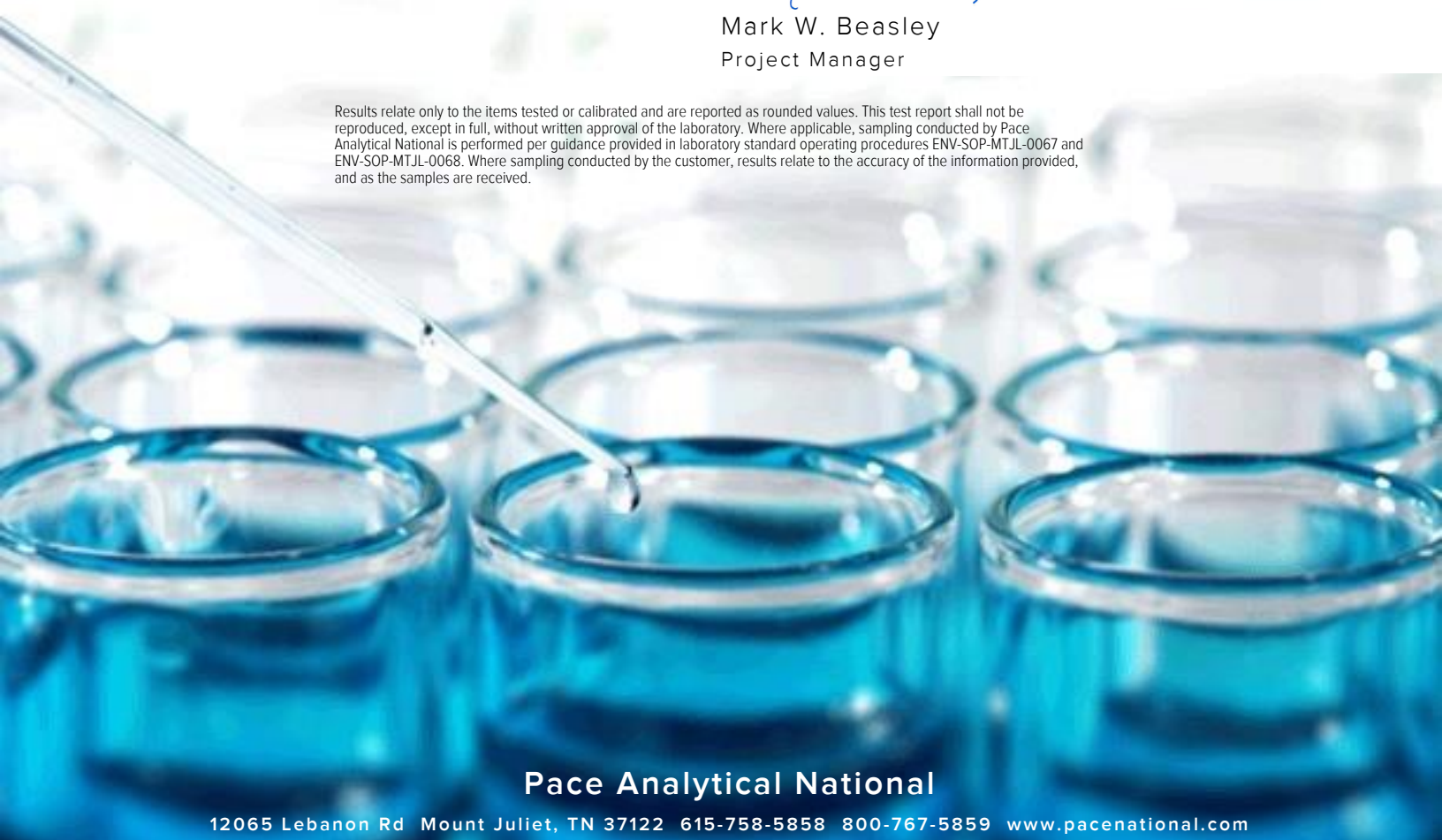
Sample Delivery Group: L1496816
Samples Received: 05/21/2022
Project Number: 0381417001
Description: Levey Well
Site: 0381417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701



Entire Report Reviewed By:

Mark W. Beasley
Project Manager

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

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

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1496816-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	16	⁸ Gl
Al: Accreditations & Locations	17	
Sc: Sample Chain of Custody	18	⁹ Al
		¹⁰ Sc

LEVEY WELL L1496816-01 Air

Collected by
Shane Diller

Collected date/time
05/19/22 13:15

Received date/time
05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1868859	80	05/25/22 00:48	05/25/22 00:48	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1870124	4000	05/26/22 16:44	05/26/22 16:44	CEP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

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⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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



Mark W. Beasley
Project Manager

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

Laboratory Data Package Cover Page

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

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

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



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 05/27/2022 10:29				
Project Name: Levey Well			Laboratory Job Number: L1496816-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1868859 and WG1870124				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

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

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 05/27/2022 10:29				
Project Name: Levey Well			Laboratory Job Number: L1496816-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1868859 and WG1870124				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 05/27/2022 10:29	
Project Name: Levey Well		Laboratory Job Number: L1496816-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1868859 and WG1870124	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 05/19/22 13:15

L1496816

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	WG1868859
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1868859
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1868859
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1868859
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1868859
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1868859
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1868859
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1868859
Carbon disulfide	75-15-0	76.10	16.0	49.8	ND	ND		80	WG1868859
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1868859
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1868859
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1868859
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1868859
Chloromethane	74-87-3	50.50	16.0	33.0	ND	ND		80	WG1868859
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1868859
Cyclohexane	110-82-7	84.20	800	2760	30200	104000		4000	WG1870124
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1868859
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1868859
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1868859
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1868859
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1868859
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1868859
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1868859
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1868859
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1868859
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1868859
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1868859
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1868859
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1868859
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1868859
Ethanol	64-17-5	46.10	100	189	570	1070		80	WG1868859
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1868859
4-Ethyltoluene	622-96-8	120	16.0	78.5	ND	ND		80	WG1868859
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1868859
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1868859
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1868859
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1868859
Heptane	142-82-5	100	800	3270	44800	183000		4000	WG1870124
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1868859
n-Hexane	110-54-3	86.20	2520	8880	381000	1340000		4000	WG1870124
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1868859
Methylene Chloride	75-09-2	84.90	16.0	55.6	30.2	105		80	WG1868859
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1868859
2-Butanone (MEK)	78-93-3	72.10	100	295	ND	ND		80	WG1868859
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1868859
Methyl methacrylate	80-62-6	100.12	16.0	65.5	ND	ND		80	WG1868859
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1868859
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1868859
2-Propanol	67-63-0	60.10	100	246	1680	4130		80	WG1868859
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1868859
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1868859
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1868859
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1868859
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1868859
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1868859
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1868859



Collected date/time: 05/19/22 13:15

L1496816

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	WG1868859
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1868859
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1868859
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	ND	ND		80	WG1868859
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	ND	ND		80	WG1868859
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1868859
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1868859
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1868859
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1868859
m&p-Xylene	1330-20-7	106	32.0	139	ND	ND		80	WG1868859
o-Xylene	95-47-6	106	16.0	69.4	ND	ND		80	WG1868859
TPH (GC/MS) Low Fraction	8006-61-9	101	800000	3300000	1150000	4750000		4000	WG1870124
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG1868859
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.8				WG1870124

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3795522-2 05/24/22 14:49

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
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

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1496816-01

Method Blank (MB)

(MB) R3795522-2 05/24/22 14:49

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
(S) 1,4-Bromofluorobenzene	94.5			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3795522-1 05/24/22 14:21 • (LCSD) R3795522-3 05/24/22 15:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.61	3.57	96.3	95.2	70.0-130			1.11	25
Allyl Chloride	3.75	4.49	4.52	120	121	70.0-130			0.666	25
Benzene	3.75	3.63	3.62	96.8	96.5	70.0-130			0.276	25
Benzyl Chloride	3.75	3.78	3.69	101	98.4	70.0-152			2.41	25
Bromodichloromethane	3.75	3.68	3.70	98.1	98.7	70.0-130			0.542	25
Bromoform	3.75	3.91	3.82	104	102	70.0-130			2.33	25
Bromomethane	3.75	3.65	3.62	97.3	96.5	70.0-130			0.825	25
1,3-Butadiene	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25

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

(LCS) R3795522-1 05/24/22 14:21 • (LCSD) R3795522-3 05/24/22 15:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon disulfide	3.75	4.73	4.75	126	127	70.0-130			0.422	25
Carbon tetrachloride	3.75	3.68	3.68	98.1	98.1	70.0-130			0.000	25
Chlorobenzene	3.75	3.60	3.62	96.0	96.5	70.0-130			0.554	25
Chloroethane	3.75	3.60	3.55	96.0	94.7	70.0-130			1.40	25
Chloroform	3.75	3.75	3.74	100	99.7	70.0-130			0.267	25
Chloromethane	3.75	3.56	3.51	94.9	93.6	70.0-130			1.41	25
2-Chlorotoluene	3.75	3.79	3.74	101	99.7	70.0-130			1.33	25
Dibromochloromethane	3.75	3.78	3.82	101	102	70.0-130			1.05	25
1,2-Dibromoethane	3.75	3.72	3.75	99.2	100	70.0-130			0.803	25
1,2-Dichlorobenzene	3.75	3.86	3.81	103	102	70.0-130			1.30	25
1,3-Dichlorobenzene	3.75	3.99	3.94	106	105	70.0-130			1.26	25
1,4-Dichlorobenzene	3.75	4.01	3.97	107	106	70.0-130			1.00	25
1,2-Dichloroethane	3.75	3.67	3.67	97.9	97.9	70.0-130			0.000	25
1,1-Dichloroethane	3.75	3.66	3.63	97.6	96.8	70.0-130			0.823	25
1,1-Dichloroethene	3.75	4.27	4.25	114	113	70.0-130			0.469	25
cis-1,2-Dichloroethene	3.75	3.68	3.70	98.1	98.7	70.0-130			0.542	25
trans-1,2-Dichloroethene	3.75	4.70	4.68	125	125	70.0-130			0.426	25
1,2-Dichloropropane	3.75	3.63	3.61	96.8	96.3	70.0-130			0.552	25
cis-1,3-Dichloropropene	3.75	3.64	3.62	97.1	96.5	70.0-130			0.551	25
trans-1,3-Dichloropropene	3.75	3.59	3.57	95.7	95.2	70.0-130			0.559	25
1,4-Dioxane	3.75	4.10	4.01	109	107	70.0-140			2.22	25
Ethanol	3.75	3.57	3.33	95.2	88.8	55.0-148			6.96	25
Ethylbenzene	3.75	3.79	3.70	101	98.7	70.0-130			2.40	25
4-Ethyltoluene	3.75	4.10	4.05	109	108	70.0-130			1.23	25
Trichlorofluoromethane	3.75	3.60	3.59	96.0	95.7	70.0-130			0.278	25
Dichlorodifluoromethane	3.75	3.62	3.63	96.5	96.8	64.0-139			0.276	25
1,1,2-Trichlorotrifluoroethane	3.75	4.49	4.58	120	122	70.0-130			1.98	25
1,2-Dichlorotetrafluoroethane	3.75	3.68	3.68	98.1	98.1	70.0-130			0.000	25
Hexachloro-1,3-butadiene	3.75	3.88	3.78	103	101	70.0-151			2.61	25
Isopropylbenzene	3.75	3.82	3.80	102	101	70.0-130			0.525	25
Methylene Chloride	3.75	4.32	4.25	115	113	70.0-130			1.63	25
Methyl Butyl Ketone	3.75	4.44	4.42	118	118	70.0-149			0.451	25
Methyl Ethyl Ketone	3.75	3.72	3.65	99.2	97.3	70.0-130			1.90	25
4-Methyl-2-pentanone (MIBK)	3.75	4.27	4.29	114	114	70.0-139			0.467	25
Methyl Methacrylate	3.75	3.76	3.77	100	101	70.0-130			0.266	25
MTBE	3.75	3.60	3.54	96.0	94.4	70.0-130			1.68	25
Naphthalene	3.75	4.33	4.21	115	112	70.0-159			2.81	25
2-Propanol	3.75	3.69	3.61	98.4	96.3	70.0-139			2.19	25
Propene	3.75	3.64	3.51	97.1	93.6	64.0-144			3.64	25
Styrene	3.75	3.87	3.82	103	102	70.0-130			1.30	25

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

(LCS) R3795522-1 05/24/22 14:21 • (LCSD) R3795522-3 05/24/22 15:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	3.75	3.93	3.88	105	103	70.0-130			1.28	25
Tetrachloroethylene	3.75	3.67	3.72	97.9	99.2	70.0-130			1.35	25
Tetrahydrofuran	3.75	3.81	3.76	102	100	70.0-137			1.32	25
Toluene	3.75	3.67	3.69	97.9	98.4	70.0-130			0.543	25
1,2,4-Trichlorobenzene	3.75	3.92	3.80	105	101	70.0-160			3.11	25
1,1,1-Trichloroethane	3.75	3.68	3.64	98.1	97.1	70.0-130			1.09	25
1,1,2-Trichloroethane	3.75	3.67	3.68	97.9	98.1	70.0-130			0.272	25
Trichloroethylene	3.75	3.65	3.63	97.3	96.8	70.0-130			0.549	25
1,2,4-Trimethylbenzene	3.75	4.28	4.25	114	113	70.0-130			0.703	25
1,3,5-Trimethylbenzene	3.75	4.12	4.05	110	108	70.0-130			1.71	25
2,2,4-Trimethylpentane	3.75	3.84	3.80	102	101	70.0-130			1.05	25
Vinyl chloride	3.75	3.69	3.62	98.4	96.5	70.0-130			1.92	25
Vinyl Bromide	3.75	3.62	3.58	96.5	95.5	70.0-130			1.11	25
Vinyl acetate	3.75	3.33	3.33	88.8	88.8	70.0-130			0.000	25
m&p-Xylene	7.50	8.12	8.07	108	108	70.0-130			0.618	25
o-Xylene	3.75	4.08	4.01	109	107	70.0-130			1.73	25
(S) 1,4-Bromofluorobenzene				101	101	60.0-140				

¹Cp

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⁹Al

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Method Blank (MB)

(MB) R3796751-3 05/26/22 10:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	97.0			60.0-140

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

(LCS) R3796751-1 05/26/22 08:53 • (LCSD) R3796751-2 05/26/22 09:36

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Cyclohexane	3.75	4.02	4.01	107	107	70.0-130			0.249	25
Heptane	3.75	3.66	3.59	97.6	95.7	70.0-130			1.93	25
n-Hexane	3.75	4.14	4.10	110	109	70.0-130			0.971	25
TPH (GC/MS) Low Fraction	203	228	230	112	113	70.0-130			0.873	25
(S) 1,4-Bromofluorobenzene				98.6	99.7	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

QualifierDescription

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

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Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Ensumul, LLC 705 W. Wadley Ave. Ste 210 Marietta, GA 30067		Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220 Email To: ap@ensumul.com		Billing Information: Ensumul, LLC 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220 Email To: ap@ensumul.com	
Report to: Beaux Jennings Project Description: LEASE Well	Client Project #: 0381417001 Site/Facility ID #: 0381417001	Cryo/Re Connected Project #: 0381417001	Hub Project #: ENSUMULTX-SUMMA P.O. #: 0381417001	Please Call: PT 841 47	Ensumul, LLC 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220 Email To: ap@ensumul.com
Collected by (print): Shane Oiler	Collected by (signature): [Signature]	Rush? (Lab has/has not for analysis) _____ Next Day _____ Two Day _____ Three Day _____ X Four Day _____ X Five Day _____ X Six Day _____ X Seven Day _____ X Eight Day _____ X Nine Day _____ X Ten Day _____ X Eleven Day _____ X Twelve Day _____	Date Results Needed _____	No. of Cuts	Date _____
Sample ID _____	Comp/Grab _____	Matrix # _____	Depth _____	Time _____	Date _____
Levy Well _____	G _____	Air _____	- 5-15-22 13:15	1	Date _____
Remarks: 1. Filter 2. Breakwater 3. Breakwater 4. Breakwater 5. Breakwater 6. Breakwater 7. Breakwater 8. Breakwater 9. Breakwater 10. Breakwater 11. Breakwater 12. Breakwater 13. Breakwater 14. Breakwater 15. Breakwater 16. Breakwater 17. Breakwater 18. Breakwater 19. Breakwater 20. Breakwater 21. Breakwater 22. Breakwater 23. Breakwater 24. Breakwater 25. Breakwater 26. Breakwater 27. Breakwater 28. Breakwater 29. Breakwater 30. Breakwater 31. Breakwater 32. Breakwater 33. Breakwater 34. Breakwater 35. Breakwater 36. Breakwater 37. Breakwater 38. Breakwater 39. Breakwater 40. Breakwater 41. Breakwater 42. Breakwater 43. Breakwater 44. Breakwater 45. Breakwater 46. Breakwater 47. Breakwater 48. Breakwater 49. Breakwater 50. Breakwater 51. Breakwater 52. Breakwater 53. Breakwater 54. Breakwater 55. Breakwater 56. Breakwater 57. Breakwater 58. Breakwater 59. Breakwater 60. Breakwater 61. Breakwater 62. Breakwater 63. Breakwater 64. Breakwater 65. Breakwater 66. Breakwater 67. Breakwater 68. Breakwater 69. Breakwater 70. Breakwater 71. Breakwater 72. Breakwater 73. Breakwater 74. Breakwater 75. Breakwater 76. Breakwater 77. Breakwater 78. Breakwater 79. Breakwater 80. Breakwater 81. Breakwater 82. Breakwater 83. Breakwater 84. Breakwater 85. Breakwater 86. Breakwater 87. Breakwater 88. Breakwater 89. Breakwater 90. Breakwater 91. Breakwater 92. Breakwater 93. Breakwater 94. Breakwater 95. Breakwater 96. Breakwater 97. Breakwater 98. Breakwater 99. Breakwater 100. Breakwater					



ANALYTICAL REPORT

June 01, 2022

Ensolum, LLC

Sample Delivery Group: L1498425
Samples Received: 05/26/2022
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:

A handwritten signature in blue ink, appearing to read "M. Beasley".

Mark W. Beasley
Project Manager

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

**Pace Analytical National**

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

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1498425-01	9	⁶ Sr
LEVEY WELL L1498425-02	11	
LEVEY WELL L1498425-03	13	⁷ Qc
LEVEY WELL L1498425-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	23	
Al: Accreditations & Locations	24	¹⁰ Sc
Sc: Sample Chain of Custody	25	

LEVEY WELL L1498425-01 Air

Collected by
Shane Diller

Collected date/time
05/23/22 10:15

Received date/time
05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1870695	80	05/27/22 15:02	05/27/22 15:02	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1872508	80000	06/01/22 14:07	06/01/22 14:07	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1872607	8000	06/01/22 12:46	06/01/22 12:46	CEP	Mt. Juliet, TN

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LEVEY WELL L1498425-02 Air

Collected by
Shane Diller

Collected date/time
05/23/22 11:00

Received date/time
05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1870695	80	05/27/22 15:39	05/27/22 15:39	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1872607	800	06/01/22 13:27	06/01/22 13:27	CEP	Mt. Juliet, TN

LEVEY WELL L1498425-03 Air

Collected by
Shane Diller

Collected date/time
05/23/22 12:00

Received date/time
05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1870695	20	05/27/22 14:24	05/27/22 14:24	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1872607	400	06/01/22 14:07	06/01/22 14:07	CEP	Mt. Juliet, TN

LEVEY WELL L1498425-04 Air

Collected by
Shane Diller

Collected date/time
05/23/22 13:55

Received date/time
05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1870695	80	05/27/22 16:16	05/27/22 16:16	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1872607	800	06/01/22 14:49	06/01/22 14:49	CEP	Mt. Juliet, TN

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



Mark W. Beasley
Project Manager

¹ Cp

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Laboratory Data Package Cover Page

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

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

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



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 06/01/2022 16:35					
Project Name: Levey Well		Laboratory Job Number: L1498425-01, 02, 03 and 04					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1870695, WG1872607 and WG1872508					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

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

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 06/01/2022 16:35					
Project Name: Levey Well		Laboratory Job Number: L1498425-01, 02, 03 and 04					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1870695, WG1872607 and WG1872508					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 06/01/2022 16:35	
Project Name: Levey Well		Laboratory Job Number: L1498425-01, 02, 03 and 04	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1870695, WG1872607 and WG1872508	
ER #¹	Description		
1	TO-15 WG1872607 TPH (GC/MS) Low Fraction: Percent Recovery is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 05/23/22 10:15

L1498425

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	5100	12100		80	WG1870695
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1870695
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1870695
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1870695
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1870695
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1870695
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1870695
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1870695
Carbon disulfide	75-15-0	76.10	16.0	49.8	ND	ND		80	WG1870695
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1870695
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1870695
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1870695
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1870695
Chloromethane	74-87-3	50.50	16.0	33.0	ND	ND		80	WG1870695
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1870695
Cyclohexane	110-82-7	84.20	1600	5510	162000	558000		8000	WG1872607
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1870695
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1870695
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1870695
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1870695
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1870695
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1870695
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1870695
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1870695
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1870695
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1870695
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1870695
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1870695
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1870695
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1870695
Ethanol	64-17-5	46.10	100	189	ND	ND		80	WG1870695
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1870695
4-Ethyltoluene	622-96-8	120	16.0	78.5	129	633		80	WG1870695
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1870695
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1870695
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1870695
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1870695
Heptane	142-82-5	100	1600	6540	223000	912000		8000	WG1872607
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1870695
n-Hexane	110-54-3	86.20	50400	178000	2310000	8140000		80000	WG1872508
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1870695
Methylene Chloride	75-09-2	84.90	16.0	55.6	ND	ND		80	WG1870695
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1870695
2-Butanone (MEK)	78-93-3	72.10	100	295	4790	14100		80	WG1870695
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1870695
Methyl methacrylate	80-62-6	100.12	16.0	65.5	ND	ND		80	WG1870695
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1870695
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1870695
2-Propanol	67-63-0	60.10	100	246	3150	7740		80	WG1870695
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1870695
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1870695
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1870695
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1870695
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1870695
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1870695
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1870695



Collected date/time: 05/23/22 10:15

L1498425

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	WG1870695
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1870695
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1870695
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	76.6	376		80	WG1870695
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	174	854		80	WG1870695
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1870695
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1870695
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1870695
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1870695
m&p-Xylene	1330-20-7	106	32.0	139	ND	ND		80	WG1870695
o-Xylene	95-47-6	106	16.0	69.4	ND	ND		80	WG1870695
TPH (GC/MS) Low Fraction	8006-61-9	101	1600000	6610000	6690000	27600000	J4	8000	WG1872607
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG1870695
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.8				WG1872508
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.5				WG1872607

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 05/23/22 11:00

L1498425

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	WG1870695
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1870695
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1870695
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1870695
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1870695
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1870695
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1870695
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1870695
Carbon disulfide	75-15-0	76.10	16.0	49.8	ND	ND		80	WG1870695
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1870695
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1870695
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1870695
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1870695
Chloromethane	74-87-3	50.50	16.0	33.0	ND	ND		80	WG1870695
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1870695
Cyclohexane	110-82-7	84.20	16.0	55.1	3900	13400		80	WG1870695
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1870695
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1870695
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1870695
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1870695
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1870695
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1870695
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1870695
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1870695
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1870695
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1870695
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1870695
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1870695
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1870695
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1870695
Ethanol	64-17-5	46.10	100	189	291	549		80	WG1870695
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1870695
4-Ethyltoluene	622-96-8	120	16.0	78.5	32.1	158		80	WG1870695
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1870695
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1870695
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1870695
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1870695
Heptane	142-82-5	100	160	654	17300	70800		800	WG1872607
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1870695
n-Hexane	110-54-3	86.20	504	1780	74700	263000		800	WG1872607
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1870695
Methylene Chloride	75-09-2	84.90	16.0	55.6	ND	ND		80	WG1870695
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1870695
2-Butanone (MEK)	78-93-3	72.10	100	295	371	1090		80	WG1870695
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1870695
Methyl methacrylate	80-62-6	100.12	16.0	65.5	ND	ND		80	WG1870695
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1870695
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1870695
2-Propanol	67-63-0	60.10	100	246	3030	7450		80	WG1870695
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1870695
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1870695
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1870695
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1870695
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1870695
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1870695
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1870695



Collected date/time: 05/23/22 11:00

L1498425

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	WG1870695
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1870695
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1870695
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	17.7	86.9		80	WG1870695
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	43.8	215		80	WG1870695
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1870695
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1870695
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1870695
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1870695
m&p-Xylene	1330-20-7	106	32.0	139	ND	ND		80	WG1870695
o-Xylene	95-47-6	106	16.0	69.4	ND	ND		80	WG1870695
TPH (GC/MS) Low Fraction	8006-61-9	101	16000	66100	170000	702000		80	WG1870695
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG1870695
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.7				WG1872607

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 05/23/22 12:00

L1498425

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	390	927		20	WG1870695
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1870695
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1870695
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1870695
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1870695
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1870695
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1870695
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1870695
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1870695
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1870695
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1870695
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1870695
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1870695
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1870695
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1870695
Cyclohexane	110-82-7	84.20	80.0	276	1860	6410		400	WG1872607
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1870695
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1870695
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1870695
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1870695
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1870695
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1870695
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1870695
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1870695
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1870695
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1870695
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1870695
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1870695
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1870695
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1870695
Ethanol	64-17-5	46.10	25.0	47.1	104	196		20	WG1870695
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1870695
4-Ethyltoluene	622-96-8	120	4.00	19.6	37.7	185		20	WG1870695
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1870695
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1870695
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1870695
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1870695
Heptane	142-82-5	100	80.0	327	3710	15200		400	WG1872607
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1870695
n-Hexane	110-54-3	86.20	252	888	14300	50400		400	WG1872607
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1870695
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1870695
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1870695
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	200	590		20	WG1870695
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1870695
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1870695
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1870695
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1870695
2-Propanol	67-63-0	60.10	25.0	61.5	107	263		20	WG1870695
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1870695
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1870695
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1870695
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1870695
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1870695
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1870695
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1870695

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/23/22 12:00

L1498425

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	WG1870695
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1870695
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1870695
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	24.7	121		20	WG1870695
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	55.3	271		20	WG1870695
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1870695
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1870695
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1870695
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1870695
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1870695
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1870695
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	109000	450000		20	WG1870695
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG1870695
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG1872607

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 05/23/22 13:55

L1498425

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	1830	4350		80	WG1870695
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1870695
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1870695
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1870695
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1870695
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1870695
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1870695
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1870695
Carbon disulfide	75-15-0	76.10	16.0	49.8	ND	ND		80	WG1870695
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1870695
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1870695
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1870695
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1870695
Chloromethane	74-87-3	50.50	16.0	33.0	42.9	88.6		80	WG1870695
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1870695
Cyclohexane	110-82-7	84.20	16.0	55.1	4730	16300		80	WG1870695
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1870695
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1870695
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1870695
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1870695
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1870695
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1870695
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1870695
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1870695
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1870695
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1870695
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1870695
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1870695
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1870695
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1870695
Ethanol	64-17-5	46.10	100	189	298	562		80	WG1870695
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1870695
4-Ethyltoluene	622-96-8	120	16.0	78.5	29.7	146		80	WG1870695
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1870695
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1870695
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1870695
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1870695
Heptane	142-82-5	100	160	654	11500	47000		800	WG1872607
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1870695
n-Hexane	110-54-3	86.20	504	1780	43800	154000		800	WG1872607
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1870695
Methylene Chloride	75-09-2	84.90	16.0	55.6	ND	ND		80	WG1870695
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1870695
2-Butanone (MEK)	78-93-3	72.10	100	295	535	1580		80	WG1870695
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1870695
Methyl methacrylate	80-62-6	100.12	16.0	65.5	ND	ND		80	WG1870695
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1870695
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1870695
2-Propanol	67-63-0	60.10	100	246	3060	7520		80	WG1870695
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1870695
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1870695
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1870695
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1870695
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1870695
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1870695
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1870695

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/23/22 13:55

L1498425

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	WG1870695
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1870695
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1870695
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	17.5	85.9		80	WG1870695
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	41.8	205		80	WG1870695
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1870695
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1870695
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1870695
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1870695
m&p-Xylene	1330-20-7	106	32.0	139	ND	ND		80	WG1870695
o-Xylene	95-47-6	106	16.0	69.4	ND	ND		80	WG1870695
TPH (GC/MS) Low Fraction	8006-61-9	101	16000	66100	190000	785000		80	WG1870695
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG1870695
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.3				WG1872607

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3796884-3 05/27/22 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
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1498425-01,02,03,04

Method Blank (MB)

(MB) R3796884-3 05/27/22 10:07

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.0958	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	99.3			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3796884-1 05/27/22 08:49 • (LCSD) R3796884-2 05/27/22 09:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.06	4.16	108	111	70.0-130			2.43	25
Allyl Chloride	3.75	4.05	4.29	108	114	70.0-130			5.76	25
Benzene	3.75	4.14	4.13	110	110	70.0-130			0.242	25
Benzyl Chloride	3.75	4.23	4.33	113	115	70.0-152			2.34	25
Bromodichloromethane	3.75	4.07	4.08	109	109	70.0-130			0.245	25
Bromoform	3.75	3.93	3.94	105	105	70.0-130			0.254	25

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

(LCS) R3796884-1 05/27/22 08:49 • (LCSD) R3796884-2 05/27/22 09:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	4.14	4.10	110	109	70.0-130			0.971	25
1,3-Butadiene	3.75	4.16	4.16	111	111	70.0-130			0.000	25
Carbon disulfide	3.75	4.20	4.21	112	112	70.0-130			0.238	25
Carbon tetrachloride	3.75	4.04	4.05	108	108	70.0-130			0.247	25
Chlorobenzene	3.75	4.10	4.04	109	108	70.0-130			1.47	25
Chloroethane	3.75	4.08	4.18	109	111	70.0-130			2.42	25
Chloroform	3.75	4.10	4.12	109	110	70.0-130			0.487	25
Chloromethane	3.75	4.19	4.23	112	113	70.0-130			0.950	25
2-Chlorotoluene	3.75	4.13	4.16	110	111	70.0-130			0.724	25
Cyclohexane	3.75	4.24	4.29	113	114	70.0-130			1.17	25
Dibromochloromethane	3.75	4.04	3.97	108	106	70.0-130			1.75	25
1,2-Dibromoethane	3.75	4.10	4.05	109	108	70.0-130			1.23	25
1,2-Dichlorobenzene	3.75	4.11	4.24	110	113	70.0-130			3.11	25
1,3-Dichlorobenzene	3.75	4.14	4.24	110	113	70.0-130			2.39	25
1,4-Dichlorobenzene	3.75	4.13	4.21	110	112	70.0-130			1.92	25
1,2-Dichloroethane	3.75	4.00	4.00	107	107	70.0-130			0.000	25
1,1-Dichloroethane	3.75	4.18	4.20	111	112	70.0-130			0.477	25
1,1-Dichloroethene	3.75	4.14	4.20	110	112	70.0-130			1.44	25
cis-1,2-Dichloroethene	3.75	4.21	4.29	112	114	70.0-130			1.88	25
trans-1,2-Dichloroethene	3.75	4.23	4.30	113	115	70.0-130			1.64	25
1,2-Dichloropropane	3.75	4.16	4.17	111	111	70.0-130			0.240	25
cis-1,3-Dichloropropene	3.75	4.07	4.14	109	110	70.0-130			1.71	25
trans-1,3-Dichloropropene	3.75	4.10	4.10	109	109	70.0-130			0.000	25
1,4-Dioxane	3.75	4.30	4.28	115	114	70.0-140			0.466	25
Ethanol	3.75	4.41	4.46	118	119	55.0-148			1.13	25
Ethylbenzene	3.75	4.17	4.19	111	112	70.0-130			0.478	25
4-Ethyltoluene	3.75	4.26	4.34	114	116	70.0-130			1.86	25
Trichlorofluoromethane	3.75	4.03	4.08	107	109	70.0-130			1.23	25
Dichlorodifluoromethane	3.75	4.08	4.11	109	110	64.0-139			0.733	25
1,1,2-Trichlorotrifluoroethane	3.75	4.06	4.09	108	109	70.0-130			0.736	25
1,2-Dichlorotetrafluoroethane	3.75	4.14	4.13	110	110	70.0-130			0.242	25
Hexachloro-1,3-butadiene	3.75	3.93	4.11	105	110	70.0-151			4.48	25
Isopropylbenzene	3.75	4.28	4.34	114	116	70.0-130			1.39	25
Methylene Chloride	3.75	3.91	3.92	104	105	70.0-130			0.255	25
Methyl Butyl Ketone	3.75	4.37	4.29	117	114	70.0-149			1.85	25
Methyl Ethyl Ketone	3.75	4.22	4.32	113	115	70.0-130			2.34	25
4-Methyl-2-pentanone (MIBK)	3.75	4.32	4.31	115	115	70.0-139			0.232	25
Methyl Methacrylate	3.75	4.04	4.10	108	109	70.0-130			1.47	25
MTBE	3.75	4.16	4.26	111	114	70.0-130			2.38	25
Naphthalene	3.75	4.30	4.30	115	115	70.0-159			0.000	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

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⁷Qc

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⁹Al

¹⁰Sc

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

(LCS) R3796884-1 05/27/22 08:49 • (LCSD) R3796884-2 05/27/22 09:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
2-Propanol	3.75	4.19	4.27	112	114	70.0-139			1.89	25
Propene	3.75	4.13	4.15	110	111	64.0-144			0.483	25
Styrene	3.75	4.29	4.30	114	115	70.0-130			0.233	25
1,1,2,2-Tetrachloroethane	3.75	4.10	4.11	109	110	70.0-130			0.244	25
Tetrachloroethylene	3.75	4.03	4.00	107	107	70.0-130			0.747	25
Tetrahydrofuran	3.75	4.25	4.29	113	114	70.0-137			0.937	25
Toluene	3.75	4.16	4.15	111	111	70.0-130			0.241	25
1,2,4-Trichlorobenzene	3.75	4.07	4.16	109	111	70.0-160			2.19	25
1,1,1-Trichloroethane	3.75	4.07	4.07	109	109	70.0-130			0.000	25
1,1,2-Trichloroethane	3.75	4.11	4.05	110	108	70.0-130			1.47	25
Trichloroethylene	3.75	4.07	4.01	109	107	70.0-130			1.49	25
1,2,4-Trimethylbenzene	3.75	4.30	4.37	115	117	70.0-130			1.61	25
1,3,5-Trimethylbenzene	3.75	4.19	4.27	112	114	70.0-130			1.89	25
2,2,4-Trimethylpentane	3.75	4.28	4.37	114	117	70.0-130			2.08	25
Vinyl chloride	3.75	4.21	4.23	112	113	70.0-130			0.474	25
Vinyl Bromide	3.75	4.07	4.08	109	109	70.0-130			0.245	25
Vinyl acetate	3.75	4.33	4.36	115	116	70.0-130			0.690	25
m&p-Xylene	7.50	8.50	8.54	113	114	70.0-130			0.469	25
o-Xylene	3.75	4.18	4.22	111	113	70.0-130			0.952	25
TPH (GC/MS) Low Fraction	203	235	237	116	117	70.0-130			0.847	25
(S) 1,4-Bromofluorobenzene				99.9	99.7	60.0-140				

¹Cp

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¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1498425-01](#)

Method Blank (MB)

(MB) R3798202-3 06/01/22 09:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	91.3			60.0-140

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

(LCS) R3798202-1 06/01/22 08:39 • (LCSD) R3798202-2 06/01/22 09:12

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.39	4.49	117	120	70.0-130			2.25	25
(S) 1,4-Bromofluorobenzene				94.6	94.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1498425-01,02,03,04](#)

Method Blank (MB)

(MB) R3798180-3 06/01/22 10:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	95.2			60.0-140

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

(LCS) R3798180-1 06/01/22 08:51 • (LCSD) R3798180-2 06/01/22 09:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Cyclohexane	3.75	4.77	4.77	127	127	70.0-130			0.000	25
Heptane	3.75	4.34	4.42	116	118	70.0-130			1.83	25
n-Hexane	3.75	4.85	4.75	129	127	70.0-130			2.08	25
TPH (GC/MS) Low Fraction	203	268	269	132	133	70.0-130	J4	J4	0.372	25
(S) 1,4-Bromofluorobenzene				97.9	99.7	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.

1Cp

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10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



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ANALYTICAL REPORT

June 07, 2022

Ensolum, LLC

Sample Delivery Group: L1499330
Samples Received: 05/28/2022
Project Number: 0381417001
Description: Levey Well
Site: 0381417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701



Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M. Beasley".

Mark W. Beasley
Project Manager

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

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

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1499330-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	16	⁸ Gl
Al: Accreditations & Locations	17	
Sc: Sample Chain of Custody	18	⁹ Al
		¹⁰ Sc

LEVEY WELL L1499330-01 Air

Collected by
Shane Diller

Collected date/time
05/26/22 12:50

Received date/time
05/28/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1874272	2000	06/04/22 13:55	06/04/22 13:55	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1875461	400000	06/07/22 12:45	06/07/22 12:45	CEP	Mt. Juliet, TN

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



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Laboratory Data Package Cover Page

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

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

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



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 06/07/2022 16:10				
Project Name: Levey Well			Laboratory Job Number: L1499330-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1874272 and WG1875461				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

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

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 06/07/2022 16:10				
Project Name: Levey Well			Laboratory Job Number: L1499330-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1874272 and WG1875461				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 06/07/2022 16:10	
Project Name: Levey Well		Laboratory Job Number: L1499330-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1874272 and WG1875461	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 05/26/22 12:50

L1499330

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2500	5940	20800	49400		2000	WG1874272
Allyl chloride	107-05-1	76.53	400	1250	ND	ND		2000	WG1874272
Benzene	71-43-2	78.10	400	1280	ND	ND		2000	WG1874272
Benzyl Chloride	100-44-7	127	400	2080	ND	ND		2000	WG1874272
Bromodichloromethane	75-27-4	164	400	2680	ND	ND		2000	WG1874272
Bromoform	75-25-2	253	1200	12400	ND	ND		2000	WG1874272
Bromomethane	74-83-9	94.90	400	1550	ND	ND		2000	WG1874272
1,3-Butadiene	106-99-0	54.10	4000	8850	ND	ND		2000	WG1874272
Carbon disulfide	75-15-0	76.10	400	1240	ND	ND		2000	WG1874272
Carbon tetrachloride	56-23-5	154	400	2520	ND	ND		2000	WG1874272
Chlorobenzene	108-90-7	113	400	1850	ND	ND		2000	WG1874272
Chloroethane	75-00-3	64.50	400	1060	ND	ND		2000	WG1874272
Chloroform	67-66-3	119	400	1950	ND	ND		2000	WG1874272
Chloromethane	74-87-3	50.50	400	826	ND	ND		2000	WG1874272
2-Chlorotoluene	95-49-8	126	400	2060	ND	ND		2000	WG1874272
Cyclohexane	110-82-7	84.20	400	1380	56800	196000		2000	WG1874272
Dibromochloromethane	124-48-1	208	400	3400	ND	ND		2000	WG1874272
1,2-Dibromoethane	106-93-4	188	400	3080	ND	ND		2000	WG1874272
1,2-Dichlorobenzene	95-50-1	147	400	2400	ND	ND		2000	WG1874272
1,3-Dichlorobenzene	541-73-1	147	400	2400	ND	ND		2000	WG1874272
1,4-Dichlorobenzene	106-46-7	147	400	2400	ND	ND		2000	WG1874272
1,2-Dichloroethane	107-06-2	99	400	1620	ND	ND		2000	WG1874272
1,1-Dichloroethane	75-34-3	98	400	1600	ND	ND		2000	WG1874272
1,1-Dichloroethene	75-35-4	96.90	400	1590	ND	ND		2000	WG1874272
cis-1,2-Dichloroethene	156-59-2	96.90	400	1590	ND	ND		2000	WG1874272
trans-1,2-Dichloroethene	156-60-5	96.90	400	1590	ND	ND		2000	WG1874272
1,2-Dichloropropane	78-87-5	113	400	1850	ND	ND		2000	WG1874272
cis-1,3-Dichloropropene	10061-01-5	111	400	1820	ND	ND		2000	WG1874272
trans-1,3-Dichloropropene	10061-02-6	111	400	1820	ND	ND		2000	WG1874272
1,4-Dioxane	123-91-1	88.10	400	1440	ND	ND		2000	WG1874272
Ethanol	64-17-5	46.10	2500	4710	6840	12900		2000	WG1874272
Ethylbenzene	100-41-4	106	400	1730	ND	ND		2000	WG1874272
4-Ethyltoluene	622-96-8	120	400	1960	ND	ND		2000	WG1874272
Trichlorofluoromethane	75-69-4	137.40	400	2250	ND	ND		2000	WG1874272
Dichlorodifluoromethane	75-71-8	120.92	400	1980	ND	ND		2000	WG1874272
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	400	3070	ND	ND		2000	WG1874272
1,2-Dichlorotetrafluoroethane	76-14-2	171	400	2800	ND	ND		2000	WG1874272
Heptane	142-82-5	100	400	1640	82100	336000		2000	WG1874272
Hexachloro-1,3-butadiene	87-68-3	261	1260	13500	ND	ND		2000	WG1874272
n-Hexane	110-54-3	86.20	252000	888000	7930000	28000000		400000	WG1875461
Isopropylbenzene	98-82-8	120.20	400	1970	ND	ND		2000	WG1874272
Methylene Chloride	75-09-2	84.90	400	1390	ND	ND		2000	WG1874272
Methyl Butyl Ketone	591-78-6	100	2500	10200	ND	ND		2000	WG1874272
2-Butanone (MEK)	78-93-3	72.10	2500	7370	2790	8230		2000	WG1874272
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2500	10200	ND	ND		2000	WG1874272
Methyl methacrylate	80-62-6	100.12	400	1640	ND	ND		2000	WG1874272
MTBE	1634-04-4	88.10	400	1440	ND	ND		2000	WG1874272
Naphthalene	91-20-3	128	1260	6600	ND	ND		2000	WG1874272
2-Propanol	67-63-0	60.10	2500	6150	65700	161000		2000	WG1874272
Propene	115-07-1	42.10	2500	4300	ND	ND		2000	WG1874272
Styrene	100-42-5	104	400	1700	ND	ND		2000	WG1874272
1,1,2,2-Tetrachloroethane	79-34-5	168	400	2750	ND	ND		2000	WG1874272
Tetrachloroethylene	127-18-4	166	400	2720	ND	ND		2000	WG1874272
Tetrahydrofuran	109-99-9	72.10	400	1180	ND	ND		2000	WG1874272
Toluene	108-88-3	92.10	1000	3770	ND	ND		2000	WG1874272
1,2,4-Trichlorobenzene	120-82-1	181	1260	9330	ND	ND		2000	WG1874272



Collected date/time: 05/26/22 12:50

L1499330

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	400	2180	ND	ND		2000	WG1874272
1,1,2-Trichloroethane	79-00-5	133	400	2180	ND	ND		2000	WG1874272
Trichloroethylene	79-01-6	131	400	2140	434	2330		2000	WG1874272
1,2,4-Trimethylbenzene	95-63-6	120	400	1960	ND	ND		2000	WG1874272
1,3,5-Trimethylbenzene	108-67-8	120	400	1960	ND	ND		2000	WG1874272
2,2,4-Trimethylpentane	540-84-1	114.22	400	1870	ND	ND		2000	WG1874272
Vinyl chloride	75-01-4	62.50	400	1020	ND	ND		2000	WG1874272
Vinyl Bromide	593-60-2	106.95	400	1750	ND	ND		2000	WG1874272
Vinyl acetate	108-05-4	86.10	400	1410	ND	ND		2000	WG1874272
m&p-Xylene	1330-20-7	106	800	3470	ND	ND		2000	WG1874272
o-Xylene	95-47-6	106	400	1730	ND	ND		2000	WG1874272
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	2000000	8260000		2000	WG1874272
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		87.1				WG1874272
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.0				WG1875461

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R3799560-3 06/04/22 06:37

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1499330-01

Method Blank (MB)

(MB) R3799560-3 06/04/22 06:37

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	0.116	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	0.453	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	82.7			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3799560-1 06/04/22 05:11 • (LCSD) R3799560-2 06/04/22 05:55

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.69	3.67	98.4	97.9	70.0-130			0.543	25
Allyl Chloride	3.75	4.40	4.56	117	122	70.0-130			3.57	25
Benzene	3.75	4.24	4.28	113	114	70.0-130			0.939	25
Benzyl Chloride	3.75	3.56	3.45	94.9	92.0	70.0-152			3.14	25
Bromodichloromethane	3.75	4.24	4.11	113	110	70.0-130			3.11	25

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

(LCS) R3799560-1 06/04/22 05:11 • (LCSD) R3799560-2 06/04/22 05:55

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	3.75	3.96	3.92	106	105	70.0-130			1.02	25
Bromomethane	3.75	3.90	3.80	104	101	70.0-130			2.60	25
1,3-Butadiene	3.75	3.66	3.71	97.6	98.9	70.0-130			1.36	25
Carbon disulfide	3.75	4.08	4.01	109	107	70.0-130			1.73	25
Carbon tetrachloride	3.75	4.09	4.07	109	109	70.0-130			0.490	25
Chlorobenzene	3.75	4.28	4.24	114	113	70.0-130			0.939	25
Chloroethane	3.75	3.64	3.65	97.1	97.3	70.0-130			0.274	25
Chloroform	3.75	4.07	4.00	109	107	70.0-130			1.73	25
Chloromethane	3.75	3.91	3.87	104	103	70.0-130			1.03	25
2-Chlorotoluene	3.75	4.11	4.00	110	107	70.0-130			2.71	25
Cyclohexane	3.75	4.38	4.10	117	109	70.0-130			6.60	25
Dibromochloromethane	3.75	4.12	4.05	110	108	70.0-130			1.71	25
1,2-Dibromoethane	3.75	4.03	3.96	107	106	70.0-130			1.75	25
1,2-Dichlorobenzene	3.75	4.15	4.05	111	108	70.0-130			2.44	25
1,3-Dichlorobenzene	3.75	3.95	3.87	105	103	70.0-130			2.05	25
1,4-Dichlorobenzene	3.75	3.83	3.74	102	99.7	70.0-130			2.38	25
1,2-Dichloroethane	3.75	4.00	4.10	107	109	70.0-130			2.47	25
1,1-Dichloroethane	3.75	4.07	4.09	109	109	70.0-130			0.490	25
1,1-Dichloroethene	3.75	4.15	4.14	111	110	70.0-130			0.241	25
cis-1,2-Dichloroethene	3.75	4.03	4.02	107	107	70.0-130			0.248	25
trans-1,2-Dichloroethene	3.75	4.04	4.02	108	107	70.0-130			0.496	25
1,2-Dichloropropane	3.75	4.31	4.27	115	114	70.0-130			0.932	25
cis-1,3-Dichloropropene	3.75	4.07	3.96	109	106	70.0-130			2.74	25
trans-1,3-Dichloropropene	3.75	4.06	3.99	108	106	70.0-130			1.74	25
1,4-Dioxane	3.75	4.11	4.06	110	108	70.0-140			1.22	25
Ethanol	3.75	3.52	3.32	93.9	88.5	55.0-148			5.85	25
Ethylbenzene	3.75	4.28	4.17	114	111	70.0-130			2.60	25
4-Ethyltoluene	3.75	4.09	4.05	109	108	70.0-130			0.983	25
Trichlorofluoromethane	3.75	4.16	4.08	111	109	70.0-130			1.94	25
Dichlorodifluoromethane	3.75	4.18	4.14	111	110	64.0-139			0.962	25
1,1,2-Trichlorotrifluoroethane	3.75	4.24	4.16	113	111	70.0-130			1.90	25
1,2-Dichlorotetrafluoroethane	3.75	4.26	4.22	114	113	70.0-130			0.943	25
Heptane	3.75	4.12	4.33	110	115	70.0-130			4.97	25
Hexachloro-1,3-butadiene	3.75	4.61	4.56	123	122	70.0-151			1.09	25
Isopropylbenzene	3.75	4.48	4.37	119	117	70.0-130			2.49	25
Methylene Chloride	3.75	3.80	3.80	101	101	70.0-130			0.000	25
Methyl Butyl Ketone	3.75	4.18	4.03	111	107	70.0-149			3.65	25
Methyl Ethyl Ketone	3.75	4.15	4.03	111	107	70.0-130			2.93	25
4-Methyl-2-pentanone (MIBK)	3.75	4.10	3.99	109	106	70.0-139			2.72	25
Methyl Methacrylate	3.75	4.06	4.19	108	112	70.0-130			3.15	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3799560-1 06/04/22 05:11 • (LCSD) R3799560-2 06/04/22 05:55

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
MTBE	3.75	4.00	3.97	107	106	70.0-130			0.753	25
Naphthalene	3.75	3.27	3.18	87.2	84.8	70.0-159			2.79	25
2-Propanol	3.75	3.76	3.74	100	99.7	70.0-139			0.533	25
Propene	3.75	4.10	3.93	109	105	64.0-144			4.23	25
Styrene	3.75	4.31	4.36	115	116	70.0-130			1.15	25
1,1,2,2-Tetrachloroethane	3.75	3.98	3.98	106	106	70.0-130			0.000	25
Tetrachloroethylene	3.75	4.25	4.21	113	112	70.0-130			0.946	25
Tetrahydrofuran	3.75	3.89	3.90	104	104	70.0-137			0.257	25
Toluene	3.75	4.32	4.16	115	111	70.0-130			3.77	25
1,2,4-Trichlorobenzene	3.75	3.26	3.19	86.9	85.1	70.0-160			2.17	25
1,1,1-Trichloroethane	3.75	4.11	4.04	110	108	70.0-130			1.72	25
1,1,2-Trichloroethane	3.75	4.26	4.20	114	112	70.0-130			1.42	25
Trichloroethylene	3.75	4.21	4.10	112	109	70.0-130			2.65	25
1,2,4-Trimethylbenzene	3.75	4.18	4.11	111	110	70.0-130			1.69	25
1,3,5-Trimethylbenzene	3.75	4.39	4.25	117	113	70.0-130			3.24	25
2,2,4-Trimethylpentane	3.75	4.16	4.22	111	113	70.0-130			1.43	25
Vinyl chloride	3.75	3.95	3.87	105	103	70.0-130			2.05	25
Vinyl Bromide	3.75	3.90	3.83	104	102	70.0-130			1.81	25
Vinyl acetate	3.75	3.16	3.32	84.3	88.5	70.0-130			4.94	25
m&p-Xylene	7.50	8.66	8.73	115	116	70.0-130			0.805	25
o-Xylene	3.75	4.23	4.18	113	111	70.0-130			1.19	25
TPH (GC/MS) Low Fraction	203	228	220	112	108	70.0-130			3.57	25
(S) 1,4-Bromofluorobenzene				85.2	85.9	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1499330-01](#)

Method Blank (MB)

(MB) R3800343-3 06/07/22 09:51

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	94.0			60.0-140

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

(LCS) R3800343-1 06/07/22 08:47 • (LCSD) R3800343-2 06/07/22 09:20

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	3.85	3.91	103	104	70.0-130			1.55	25
(S) 1,4-Bromofluorobenzene				96.2	96.8	60.0-140				

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

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Al

10

Sc

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

QualifierDescription

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

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

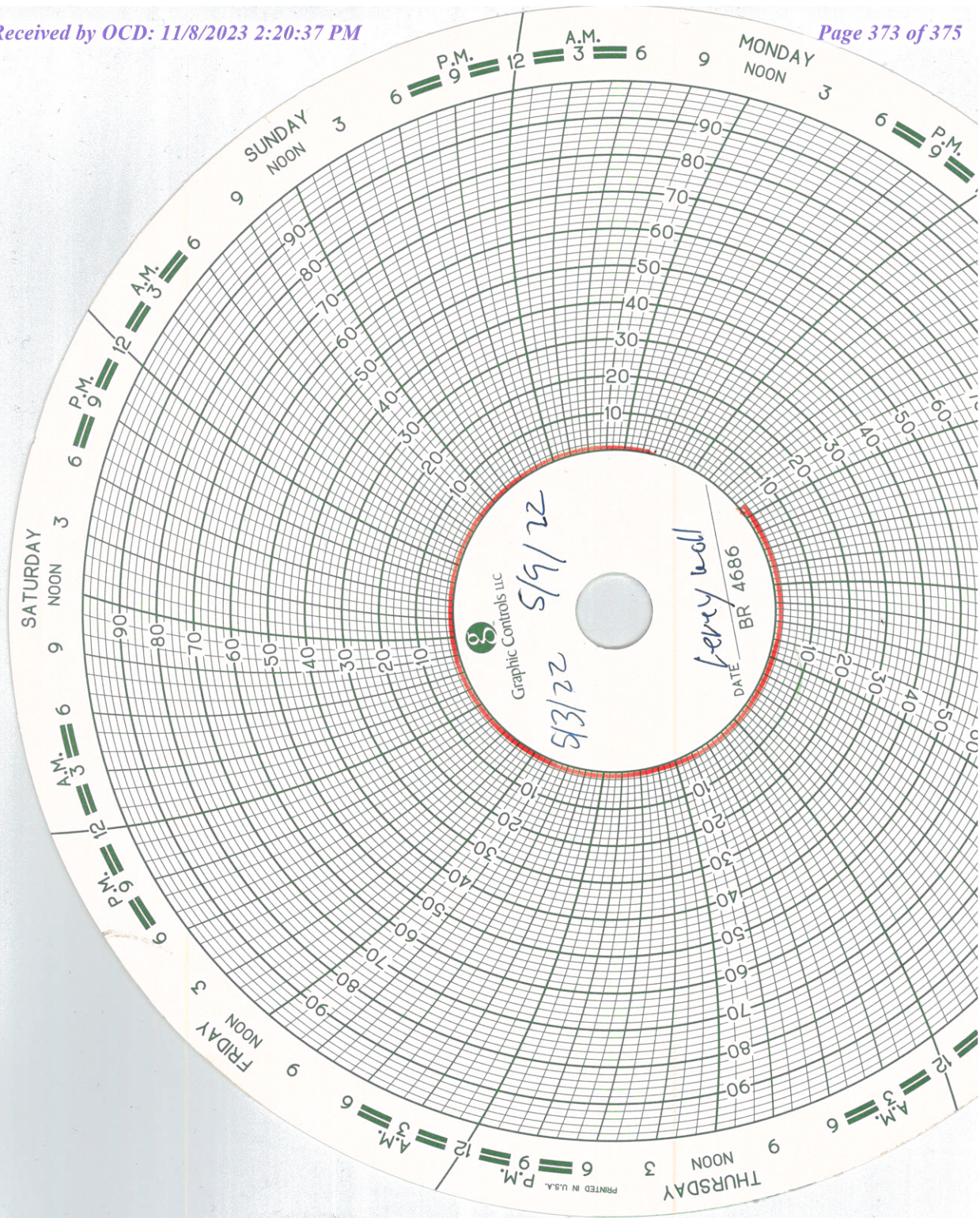


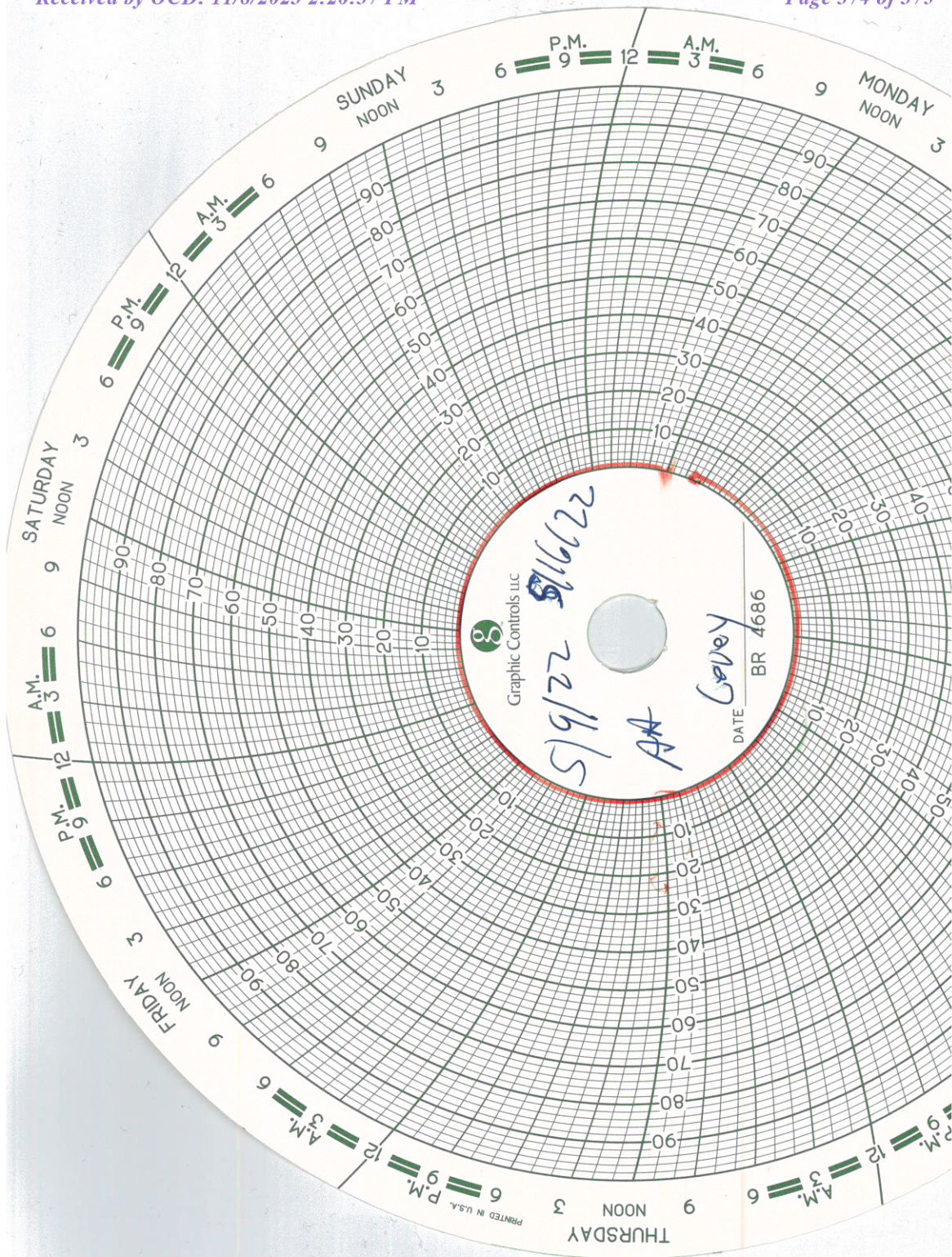
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APPENDIX D

Levey Well Integrity Test Documentation





District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 284037

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID:	157984
	Action Number:	284037
	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 - MAY 2022 Property: South Hobbs G/SA Unit Unit F EMNRD OCD Order No. R-4934-F, Case No. 14981	3/20/2024