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Office of Permitting and Compliance
Louisiana Department of Conservation and Energy
617 North Third Street, LaSalle Building
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DATE
March 6, 2026

SUBJECT
14th Analytical Data Submittal
Sulphur Mines Dome
Calcasieu Parish, Louisiana

REFERENCE
0811725

Dear Mr. Broussard:

On behalf of Westlake US 2, LLC (Westlake), Environmental Resources Management Southwest, Inc. (ERM) is pleased to provide the Louisiana Department of Conservation and Energy Office of Permitting and Compliance (LDC&E OPC) with a summary of field sampling activities, data evaluation, and final laboratory analytical reports for groundwater, brine, surface water, and gas samples collected at the Sulphur Mines Dome in Calcasieu Parish during the 4th Quarter of 2025. This report is the 14th data submittal for the Sulphur Mines Salt Dome.

The summary tables provided with this report only include data collected over the previous 12 months, while the trend graphs and data plots will continue to include all analytical data received. Only final laboratory reports received since the previous data submittal are provided in Attachment 1. Supplemental submittals will be made as additional final laboratory analytical data are received. The field notes recorded during sampling are provided as Attachment 2.

# 1. WATER SAMPLING RESULTS

From October 2025 through December 2025, additional samples of groundwater were collected on a monthly basis. Surface water sampling is on a quarterly schedule with latest samples collected in October 2025. The sampling locations are shown in Figures 1 and 2. The water samples were analyzed by ALS Global laboratory in Houston, Texas, a Louisiana Environmental Laboratory Accreditation Program (LELAP)-accredited laboratory. Dissolved gas samples were submitted to and analyzed by Isotech, a Stratum Reservoir Company, in Champaign, Illinois. All samples were hand delivered or shipped under proper Chain-of-Custody in laboratory-supplied containers with appropriate preservative and handling requirements.

## 1.1 WATER WELL SAMPLING AND RESULTS

Monthly groundwater samples continue to be collected from the industrial water wells operated by Westlake. An attempt is made to sample all water wells during the sampling events. Water well #19 (019-1055) was inoperable during the October 2025 sampling event and not sampled.

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At each water well, water was allowed to flow for several minutes prior to sampling. Field parameters, i.e., pH, specific conductivity (SC), oxidation-reduction potential (ORP), and temperature, were recorded with a hand-held meter at the time of sampling. The groundwater analytical data for the last 12 months of sampling are summarized in Table 1. Constituent concentrations have remained generally consistent over time.

Groundwater chloride trend graphs for the Chicot aquifer are provided as Figures 3-4. Concentrations reported in samples from the water wells have consistently been below their respective RECAP screening standards (GWSS) or EPA Secondary Maximum Contaminant Limits (SMCL), except for naturally-occurring iron and manganese. Few minor TPH fraction detections have been periodically and sporadically reported at levels well below RECAP GWSS.

A Piper diagram depicting the water quality of multiple groundwater samples is provided as Figure 5. The industrial water wells ("500-foot" sand) and the Cottages well ("700-foot" sand) consistently plot in tight clusters, with the "500-foot" and "700-foot" sands having slightly different water quality signatures, both distinctly different from the produced water or brine. The data do not indicate mixing between the brine or produced water is occurring at the industrial water wells or Cottages Well.

## 1.2 MONITORING WELL SAMPLING AND RESULTS

The monitoring wells have been sampled on a monthly schedule beginning in October 2025. The pump intake is set in the middle of the screened interval. During pumping, water quality parameters (pH, specific conductance, oxidation-reduction potential, dissolved oxygen, temperature, and turbidity) are monitored along with the drawdown in the well to ensure a representative sample was collected from the aquifer. Once the water quality parameters stabilize, a sample is collected. The analytical data received from the monitoring wells over the previous 12 months are summarized in Table 1.

Constituents are generally reported below their respective GWSS or SMCL standards with elevated naturally-occurring iron and manganese, consistent with the onsite water wells. Trend graphs of the chloride concentrations within the monitoring wells are provided as Figures 3-4. During the 4$^{th}$ quarter, chloride concentrations at MW-2-700 show an increasing trend relative to previous samples, but still remain well below the SMCL of 250 mg/L, and will continue to be monitored. Noticeable increases in TDS or sodium were not observed. The chloride in MW-2-700 has historically fluctuated. The January 2026 chloride concentration (176 mg/L) is lower than both the November and December 2025 concentrations but is not included in this report. At the MW-3 well cluster, chloride and TDS remain above their SMCLs in MW-3-500 and MW-3-700 as observed in all previous samples. Trend lines of chloride concentrations reported in MW-3-500 and MW-3-700 are shown in Figure 4.

Generally, benzene, toluene, ethylbenzene, and xylenes (BTEX), along with total petroleum hydrocarbons (TPH) fractions are not detected in the samples. However, minor detections are reported periodically in nearly all the wells. Low levels of benzene, toluene, and light hydrocarbons (Aliphatics >C6-C8) have been consistently reported in MW-3-500 below the GWSS

through the 4th Quarter of 2025. The concentrations of BTEX and TPH fractions are not increasing over time.

As illustrated in the Piper diagram (Figure 5), groundwater data appear to have stabilized. Some variability has been observed for several of the wells, but over the last several months the water quality data have been generally consistent.

## 1.3 SURFACE WATER SAMPLING RESULTS

In October 2025, surface water samples were collected from the Central Lake, Salt Lake (LDNR 26), Brine Well 7B vault (PPG 7B BS), and the water body adjacent to Brine Well 4 (LDNR 9, and LDNR 19). The sampling locations are shown in Figure 2. Surface water sample data over the previous 12 months is summarized in Table 2.

### 1.3.1 CENTRAL LAKE SAMPLE RESULTS

During the 4th Quarter 2025, chloride concentrations in Central Lake were consistent with expected seasonal levels. The site received normal expected rainfall during those months. Central Lake is generally homogeneous, with minor variations in water quality between sampling locations.

Field readings from the Central Lake water column are recorded on a weekly basis. The profile data collected from the monitoring station over the previous 12 months are summarized in Table 3. Trend graphs of the field measured TDS and water depth are shown on Figure 6. Laboratory-reported TDS concentrations confirm the general trend observed in the field data. The surface water will continue to be monitored to evaluate changes over time, which appear to vary seasonally and with water level changes.

# 2. GAS SAMPLING RESULTS

Gas from submerged bubble sites is sampled using a water-displacement technique. For sites where visible bubbling isn't observed, dissolved gas samples are taken. A summary of the gas data gathered over the past 12 months is provided in Table 4; the sampling locations are illustrated in Figures 1 and 2. Dissolved gas samples continue to be collected from the water wells and monitoring wells on a monthly basis (Table 4).

Several identified bubble sites (LDNR-10, 27, 28, and PPG-07A) were dry and difficult to locate. Gas samples were collected from these areas using a methane detector to help pinpoint the likely bubble locations. The samples were obtained using a hand pump and funnel setup, sealed with modeling clay to minimize atmospheric contamination. Despite these precautions, the samples often contain significant amounts of atmospheric gases.

The gas composition of the bubble sites and monitoring wells has remained consistent during the period of monitoring. A slight increase in methane has been observed in MW-2-700, with an associated depletion of methane stable isotopic ratios, a reduction in sulfate, and increase in bicarbonate. These indicators suggest the methane is biogenic as opposed to the thermogenic methane observed in the bubble sites.

## 2.1 METHANE ISOTOPES

Methane isotopic data remains consistent and continues to reflect established trends. Figure 7 presents the latest data alongside previous samples, reaffirming the thermogenic signature of gases from the caverns, oil wells and bubble sites. Gases within the "500-foot" and "700-foot" sands of the Chicot aquifer persist in displaying biogenic signature and are increasingly indicative of near-surface microbial generated gas. MW-3-500 continues to show a thermogenic signature. Additionally, the gas from the "200-foot" sand still plots within the thermogenic range, exhibiting compositional and isotopic differences from deeper Chicot gases and remaining distinct from bubble site samples. The latest results align with previously observed data suggesting potential mixing of microbial and thermogenic sources in the "200-foot" sand.

MW-3-500 continues to exhibit gas and water quality characteristics different than the other monitoring wells. It remains the only well with consistent benzene detection and exhibits chloride concentrations significantly higher than typically expected for the "500-foot" sand. Water temperature at this location also remains elevated. Methane isotopes still form a distinct cluster, setting this well apart from others in the dataset. These data suggest that the "500-foot" sand at MW-3 has likely been influenced by historical mining and exploration activity associated with the salt dome.

## 2.2 GAS COMPOSITION

The composition of the gas varies between samples collected throughout the salt dome. The gas compositions at the individual bubble site locations have remained consistent and exhibited very little variation over time. There does not appear to be a singular or central gas source on the salt dome.

The relative gas composition with respect to nitrogen of the 4$^{th}$ Quarter samples is provided in a ternary diagram on Figure 8. The majority of the samples collected from the bubble sites and the monitoring wells are predominantly methane. The deeper monitoring wells ("500-foot" and "700-foot" wells) tend to have slightly more dissolved air than the shallower "200-foot" sand wells. Bubble sites that are dry, or where no apparent bubbling is observed and dissolved gas samples are collected, tend to be predominantly atmospheric air.

# 3. HYDROGEN SULFIDE

Dissolved hydrogen sulfide ($H_2S$) has occasionally appeared in monitoring well samples. Its presence is typically attributed to sulfate-reducing bacteria in the groundwater or wells, which produce $H_2S$ through the reduction of sulfate under anaerobic conditions. Sulfate concentrations appear to have stabilized.

A sudden increase of dissolved $H_2S$ was reported at nearly all monitoring wells during the 2$^{nd}$ and 3$^{rd}$ Quarters of 2025. A similar spike was observed in the bubble site gas samples collected during the 3$^{rd}$ Quarter in the northern and western portions of the Central Lake. By August 2025, almost all dissolved $H_2S$ was reported as not detected, or with very low concentrations. The 4$^{th}$ Quarter bubble site data also show a return to low $H_2S$ levels in the bubble site gas. Comparative trend

graph of $H_2S$ in the bubble sites and monitoring wells is included as Figure 9. The sudden increase of $H_2S$ in the monitoring wells and the bubble sites at the same time is unusual. The data collected during the 4th Quarter have low $H_2S$, consistent with conditions prior to the observed 3rd Quarter increase.

Beginning in the August 2025 sampling event, ERM implemented a qualitative field test kit (Hach HS-C1 Hydrogen Sulfide Test Kit) as a check for dissolved $H_2S$ at each monitoring well. These qualitative field data are summarized on Table 1. To date there have not been any reported detections of $H_2S$ in the breathing space at the wells.

The sudden increase in $H_2S$ in the bubble sites and monitoring wells occurred between May and September 2025. It is reasonable that seasonal warm temperatures contribute to $H_2S$ production in the shallow surface water of the Central Lake; however, the gas samples have only been analyzed for $H_2S$ for one year. Groundwater data have not previously shown such an increase during the warmer months, and there is no indication that the temperature fluctuates significantly in the groundwater. The correlation between the bubble site and groundwater $H_2S$ increase is not known, but the gas composition and isotope data indicate that the sources of gas are not connected. Data collection will continue for evaluation of seasonal trends.

# 4. POTENTIOMETRIC SURFACE

Groundwater levels are measured at the beginning of each sampling event. Prior to measuring, each well is opened and given time to equilibrate with atmospheric pressure. Table 5 provides a summary of the survey data and water level measurements collected over the past 12 months.

Potentiometric surface contour maps for the three Chicot sand intervals, covering the period from October through December 2025, are shown in Figures 10 through 18. Due to elevated TDS in some wells, groundwater elevations have been adjusted for density to reflect equivalent freshwater head (EFWH) [Post et al., 2007]. Groundwater within the “200-foot” sand appears to flow southeast, with elevated levels observed in the MW-1-200 well. In the “500-foot” and “700-foot” sand units, flow direction trends southwest toward the industrial water wells. This flow pattern has remained consistent across all three sand intervals since installation of the monitoring wells. Groundwater levels will continue to be routinely monitored.

A hydrograph of the water levels in the monitoring wells is provided as Figure 19. The consistent water elevations and response patterns observed in the “500-foot” and “700-foot” wells suggest a hydraulic connection between these units. Water level data from MW-2-200 and MW-3-200 generally align with trends seen in the deeper wells, possibly reflecting the impact of ongoing pumping from nearby industrial wells. In contrast, MW-1-200 shows a differing trend from the other “200-foot” monitoring wells, which may be due to a nearby recharge boundary or reduced pumping influence.

## 5. SCHEDULE

Sampling at bubble sites and surface water locations has been reduced to a quarterly frequency, while groundwater sampling for both industrial and monitoring wells has continued on a monthly basis. LDC&E will be notified at least five business days in advance of sampling activities, and analytical results will be provided within 48 hours of receiving the final report.

Reporting will continue on a quarterly basis. The next report will be prepared following the 1st Quarter 2026 sampling events and is expected to be submitted in May 2026 after all analytical data are received.

Should you have any questions or need additional information, please contact us at scott.himes@erm.com and david.upthegrove@erm.com.

Sincerely,

Environmental Resources Management Southwest, Inc.

Scott A. Himes, P.G.
Senior Hydrogeologist

David C. Upthegrove, P.G.
Partner

SAH/DCU/jdm

## REFERENCES CITED

Post, V., H. Kooi, and C. Simmons, 2007, *Using hydraulic head measurements in variable-density ground water flow analyses*, Groundwater, Vol 45, Iss 6, pp. 664-671.

# FIGURES

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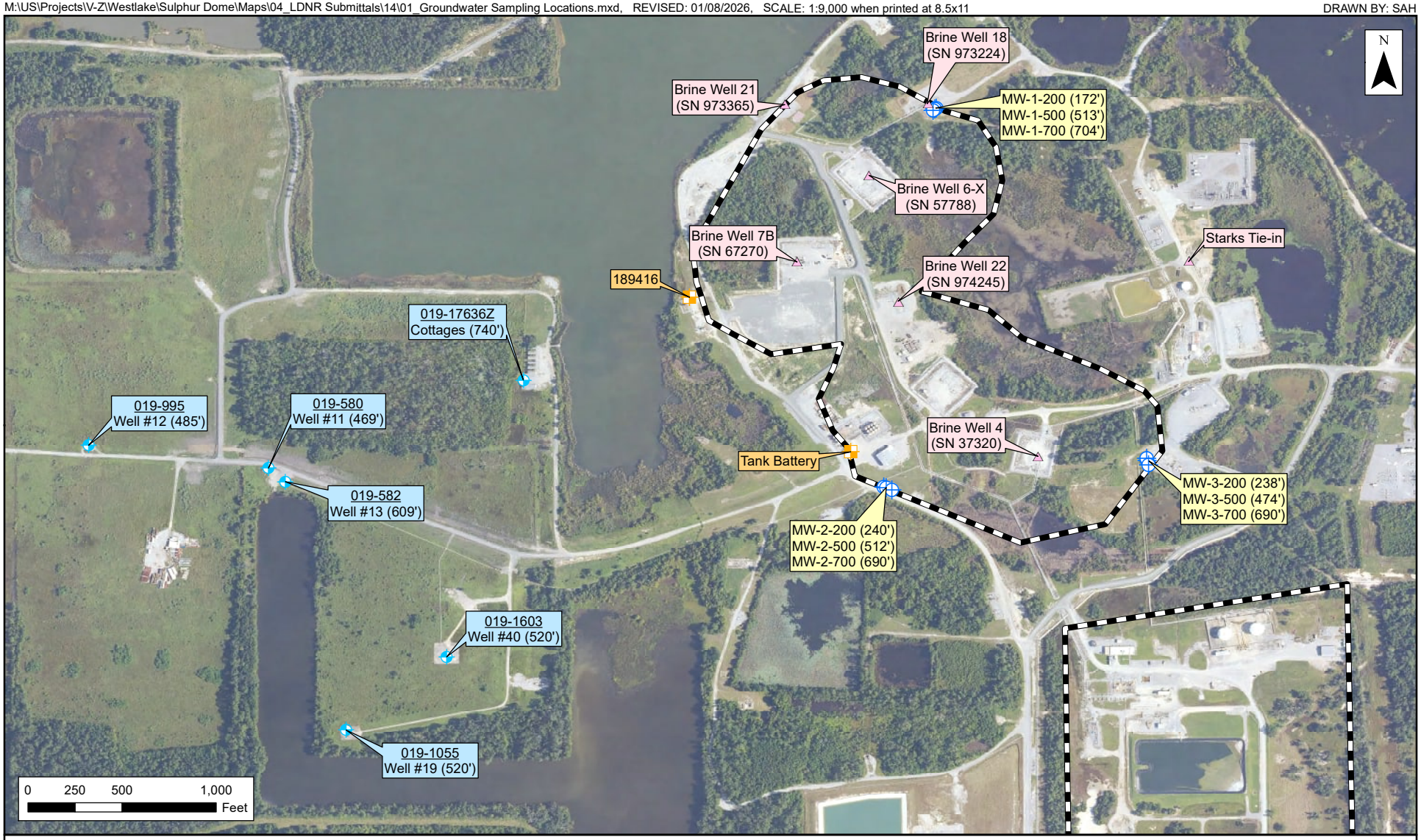


**Legend**

- Water Well Sample Location
- Monitoring Well Sample Location
- Produced Water Sample Location
- Brine Sample Location
- Westlake Property

Notes:
Nov 2025 aerial imagery via USDA NAIP.

**Figure 1**
**Groundwater Sampling Locations**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; GCS North American 1983

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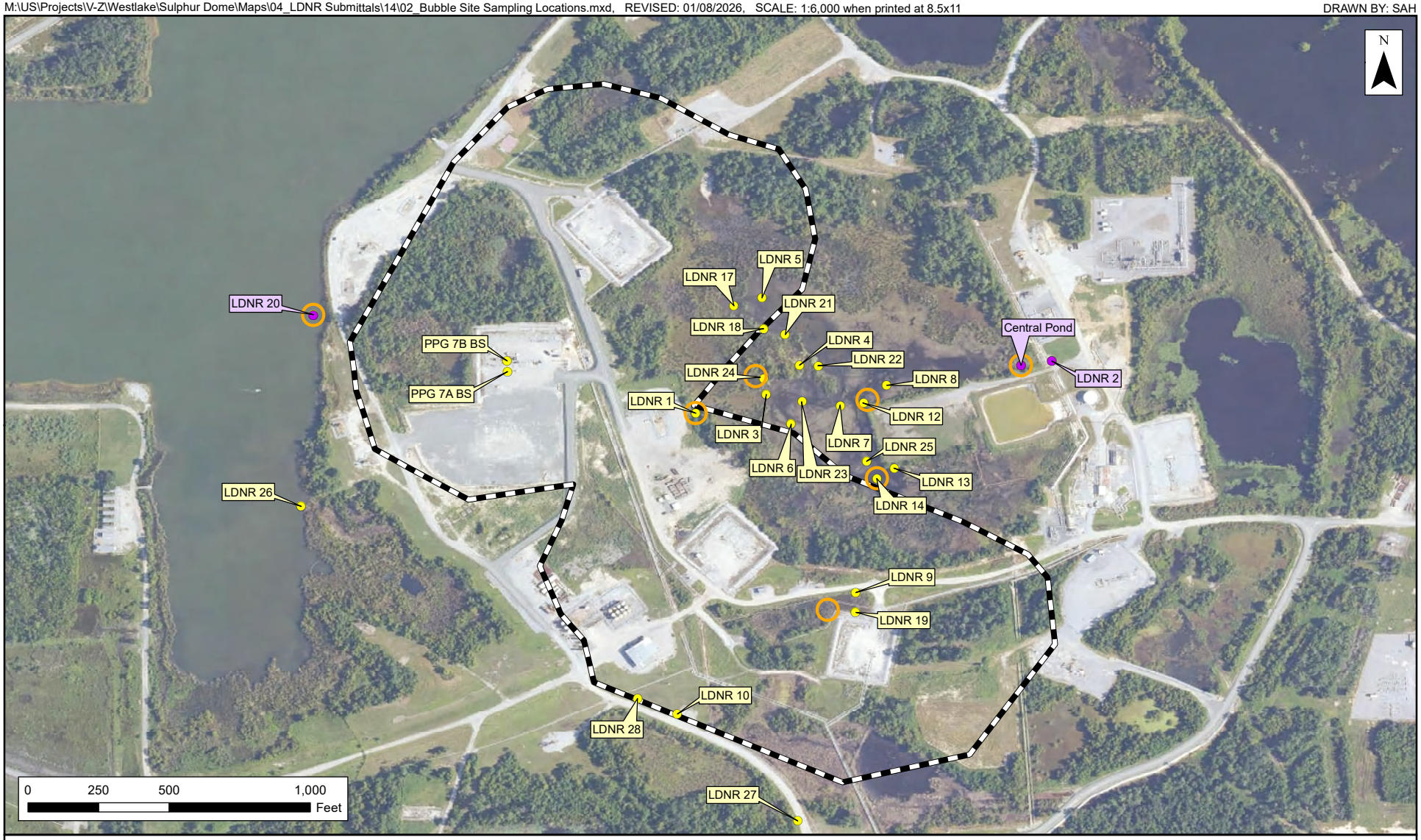



**Legend**

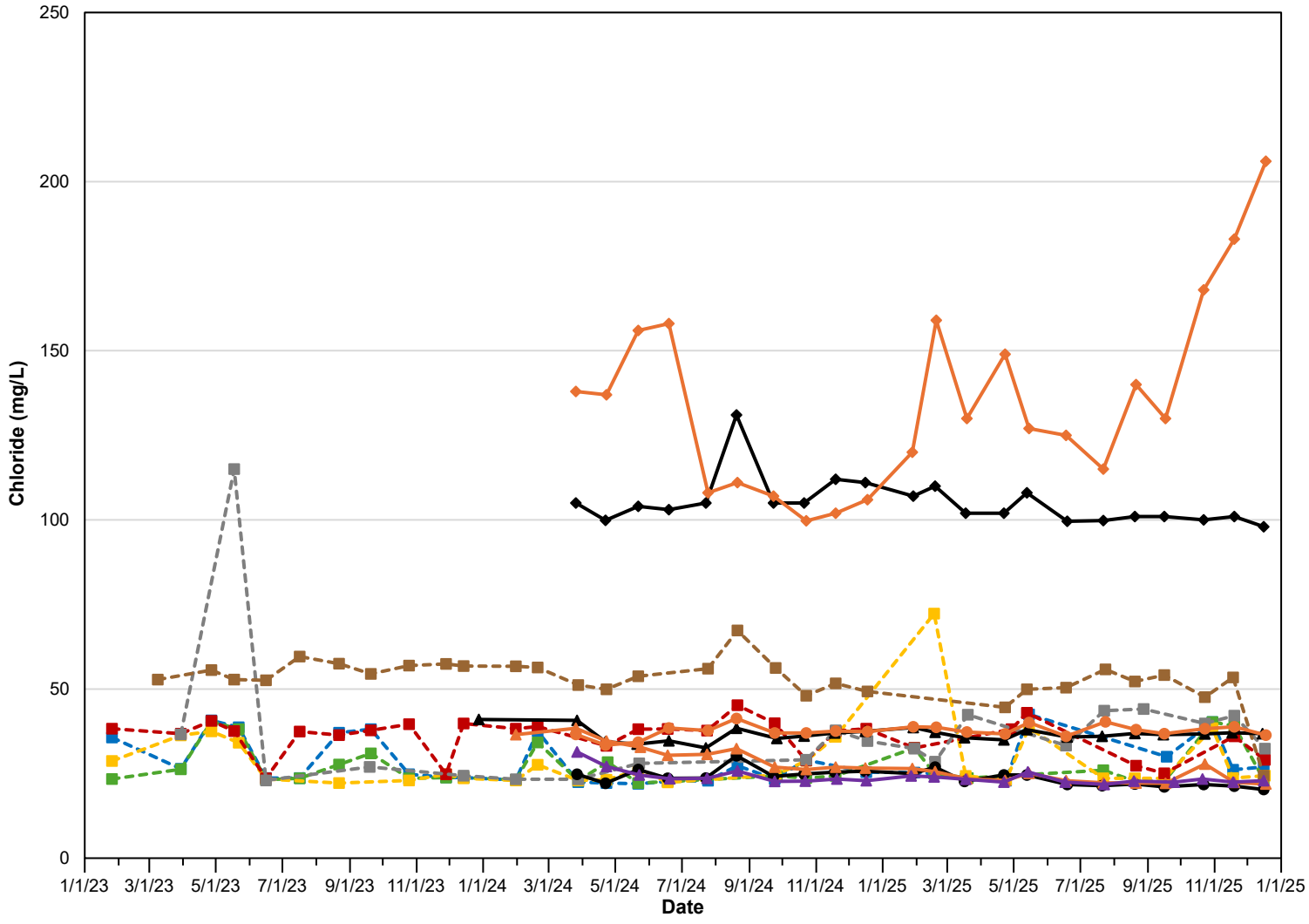
- Surface Water Sample Location (non-bubble site)
- Bubble Site Water/Gas Sample Location
- Sheen Sample Location
- Westlake Property

Notes:
Nov 2025 aerial imagery via USDA NAIP.

**Figure 2**
**Bubble Site Sampling Locations**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; GCS North American 1983

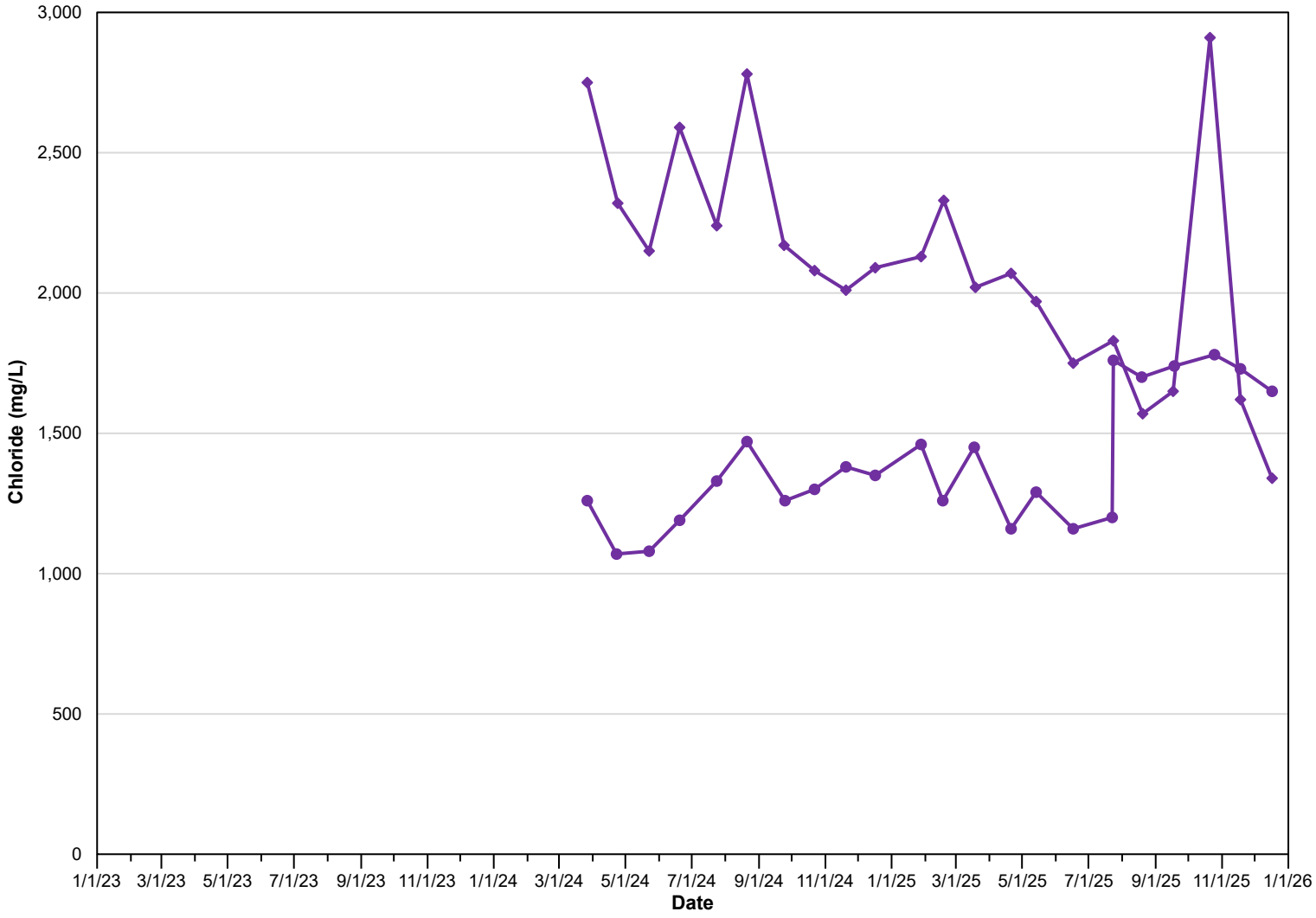



**Legend**

- 019-580
- 019-582
- 019-995
- 019-1055
- 019-1603
- 019-17636Z (Cottages)
- MW-1-200
- MW-1-500
- MW-1-700
- MW-2-200
- MW-2-500
- MW-2-700
- MW-3-200

**Figure 3**
**Groundwater Chloride Trend**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

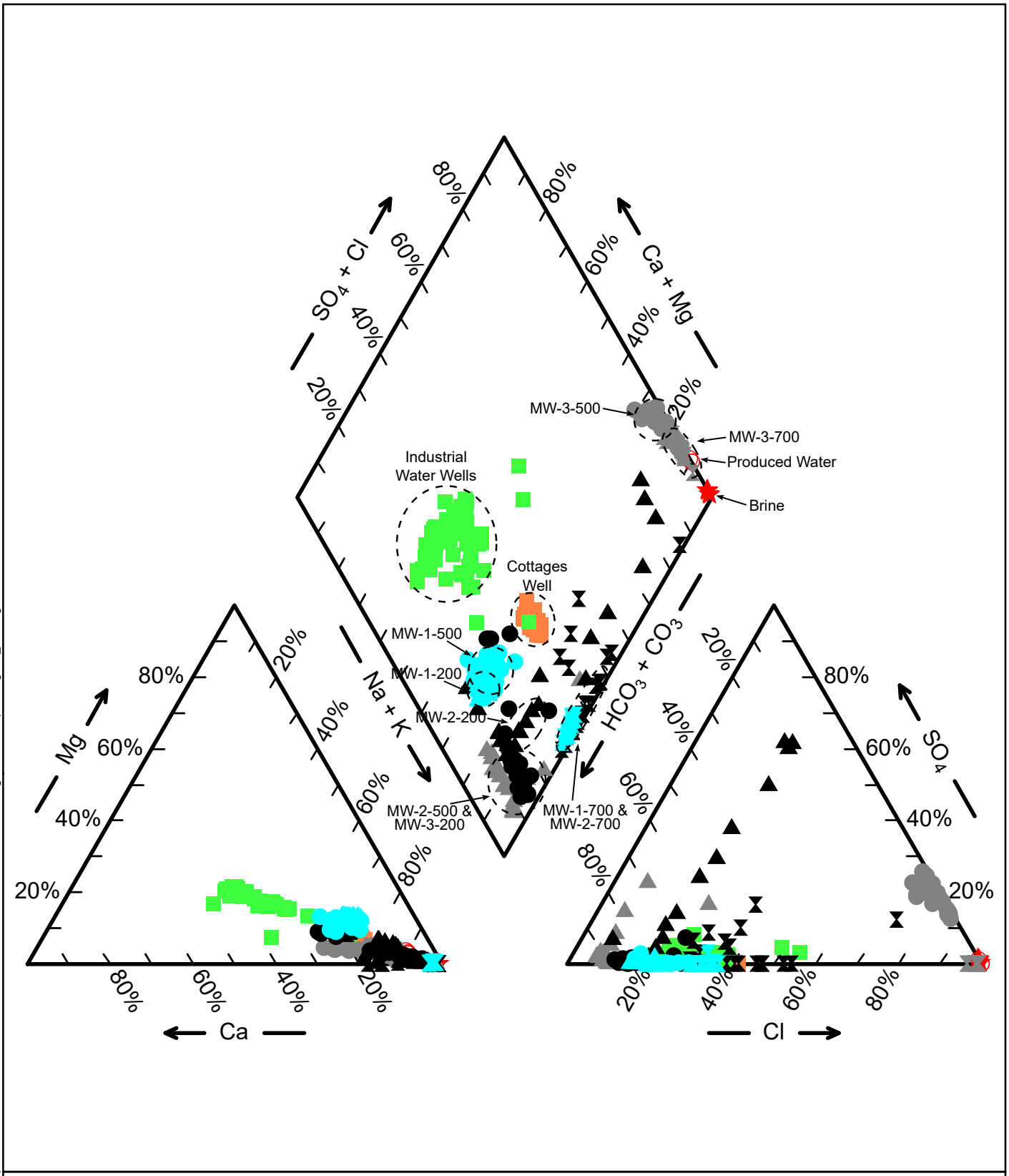



**Legend**

- MW-3-500
- MW-3-700

**Figure 4**
**Groundwater Chloride Trend**
**MW-3-500 & MW-3-700**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM




**Legend**

- Industrial Water Well
- Cottages Well
- Produced Water
- Brine
- MW-1-200
- MW-1-500
- MW-1-700
- MW-2-200
- MW-2-500
- MW-2-700
- MW-3-200
- MW-3-500
- MW-3-700

**Figure 5**
**Groundwater Piper Diagram**
Sulphur Dome
Westlake US 2, LLC
Calcacieu Parish, Louisiana

ERM

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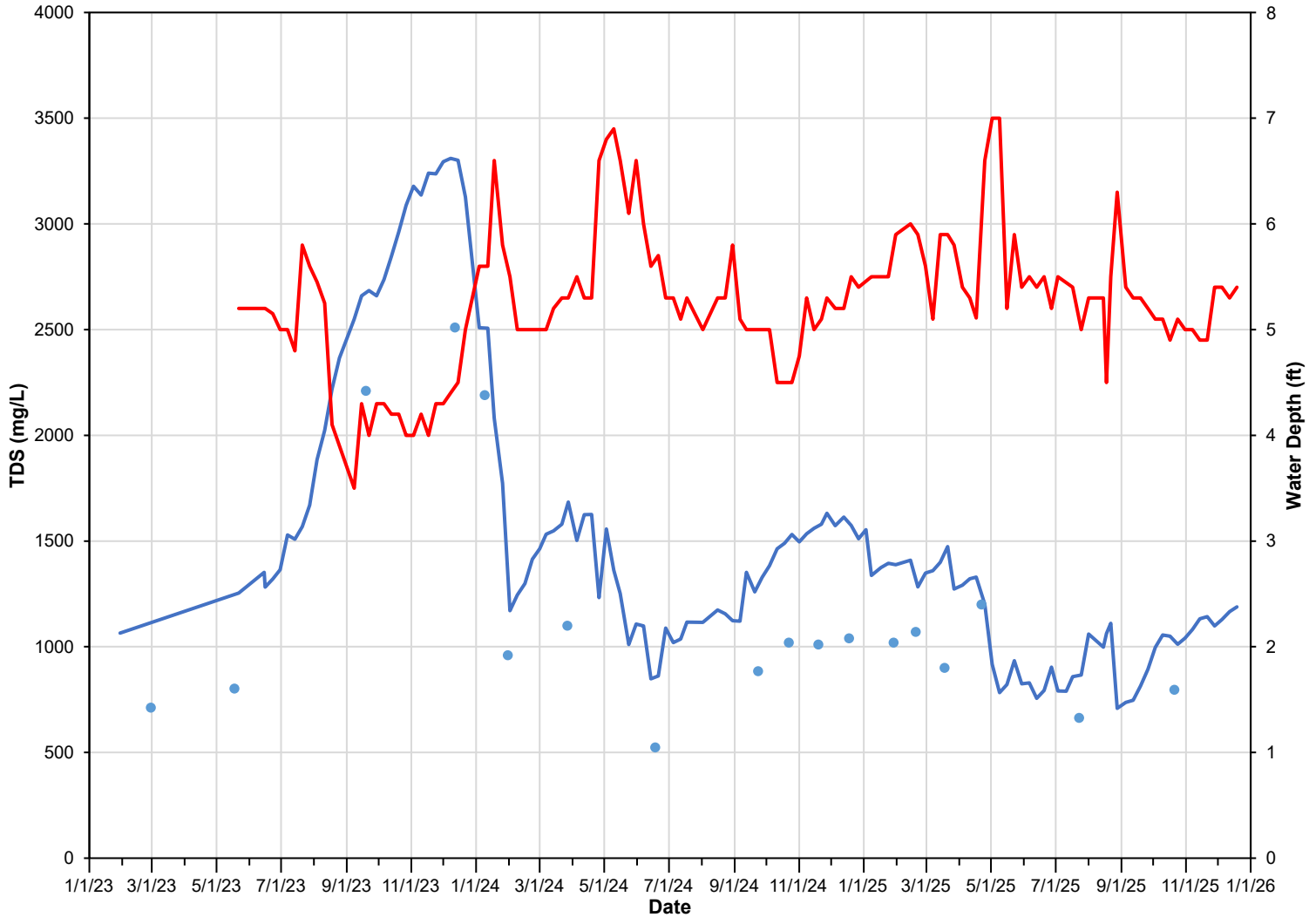


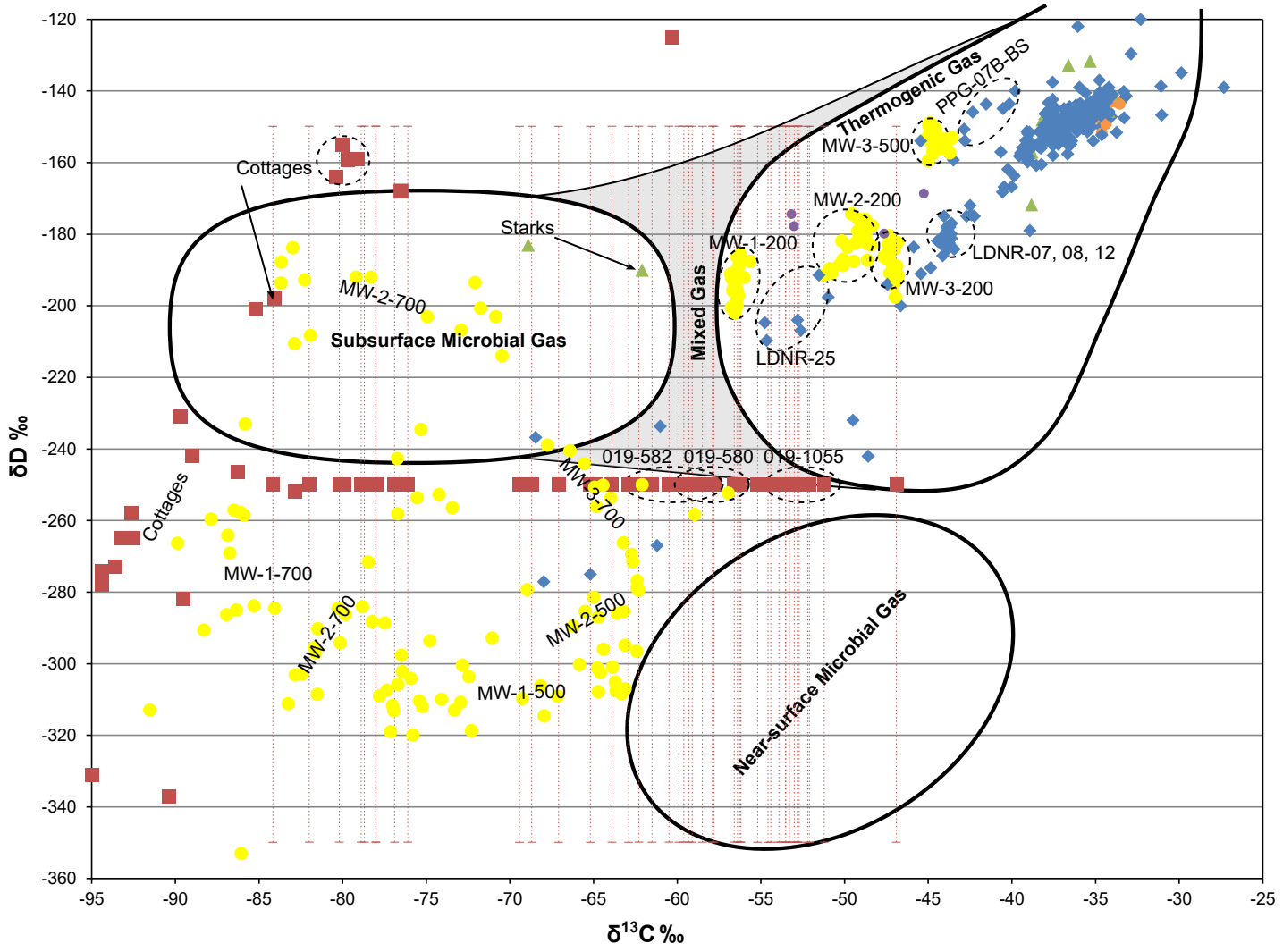

**Legend**

- Field TDS (mg/L)
- Water Depth (ft)
- Laboratory TDS at LDNR 12 (mg/L)

Notes:
Field TDS measured from approxmiately 5-ft deep with handheld Ultrameter II, which is calculated based on Specific Conductivity.

**Figure 6**
**Central Lake TDS Trend**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM




**Legend**

- Cavern Gas (Lonquist)
- Bubble Site
- Groundwater
- Monitoring Well
- Brine
- Production Gas

Notes:
If δD is not analyzed due to insufficient methane in sample δD is assumed at -250‰ with error bars added.
Coleman, D.D., Liu, C., Hackley, K.C., and Pelphrey, S.R., 1995, Identification of Landfill Methane, Environmental Geosciences, Vol. 2, No. 2, pp. 95-103.

**Figure 7**
**Methane Isotopes**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

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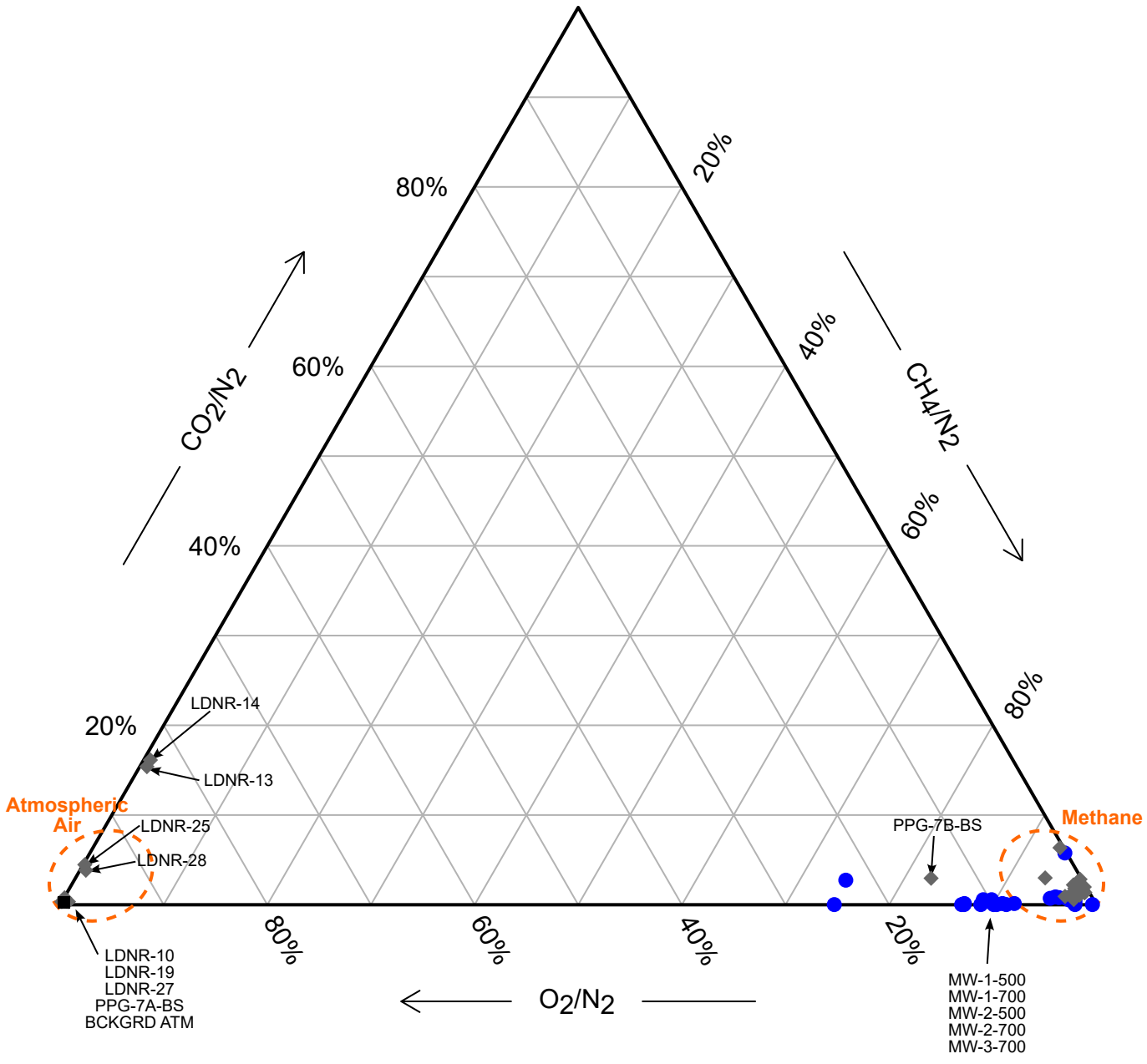


**Legend**

- Monitoring Well
- Bubble Site
- Backrgound Air

**Figure 8**
**Relative Gas Composition**
Sulphur Dome
Westlake US 2, LLC
Calcacieu Parish, Louisiana

ERM

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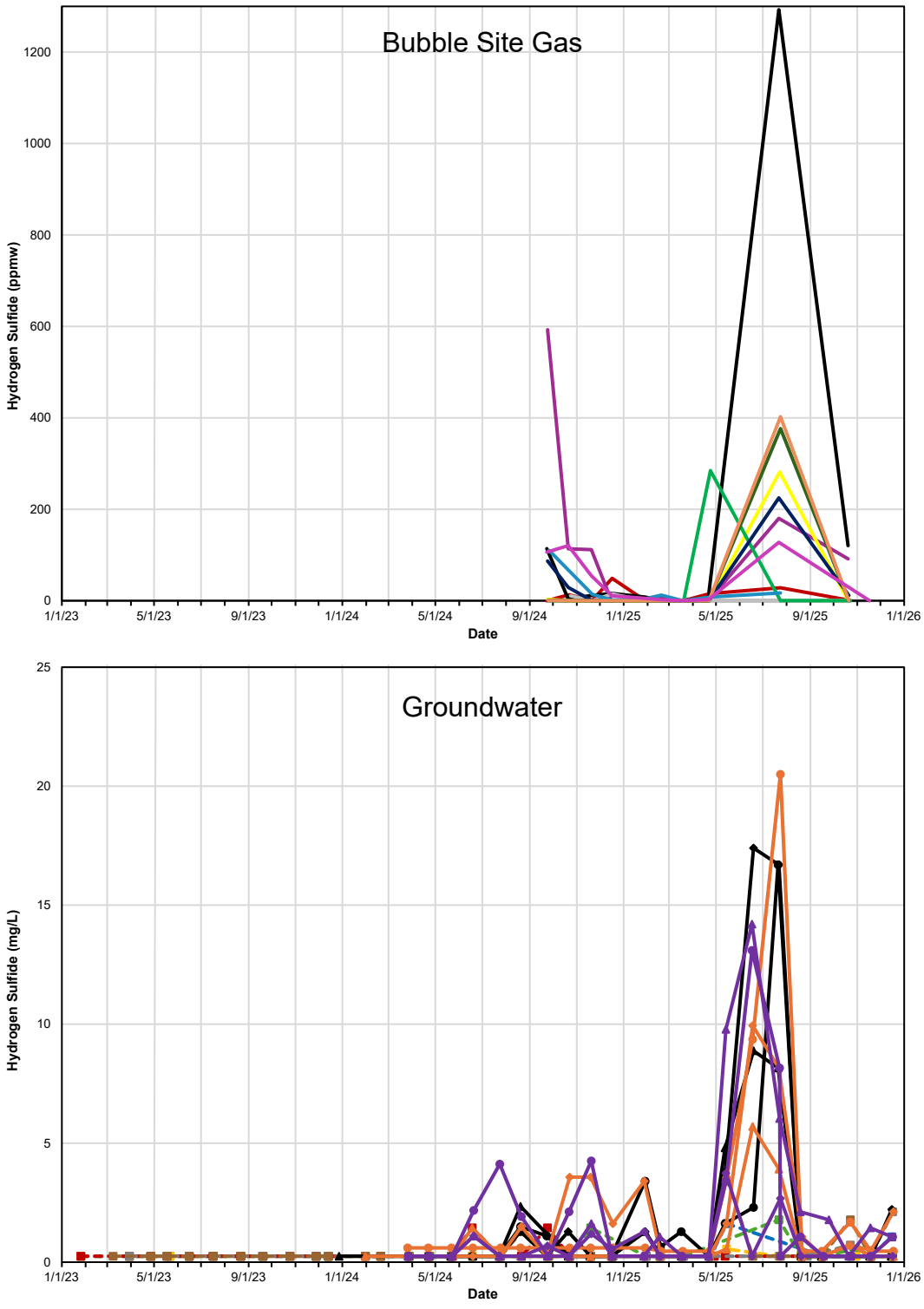


**Figure 9**
**Hydrogen Sulfide Comparison**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

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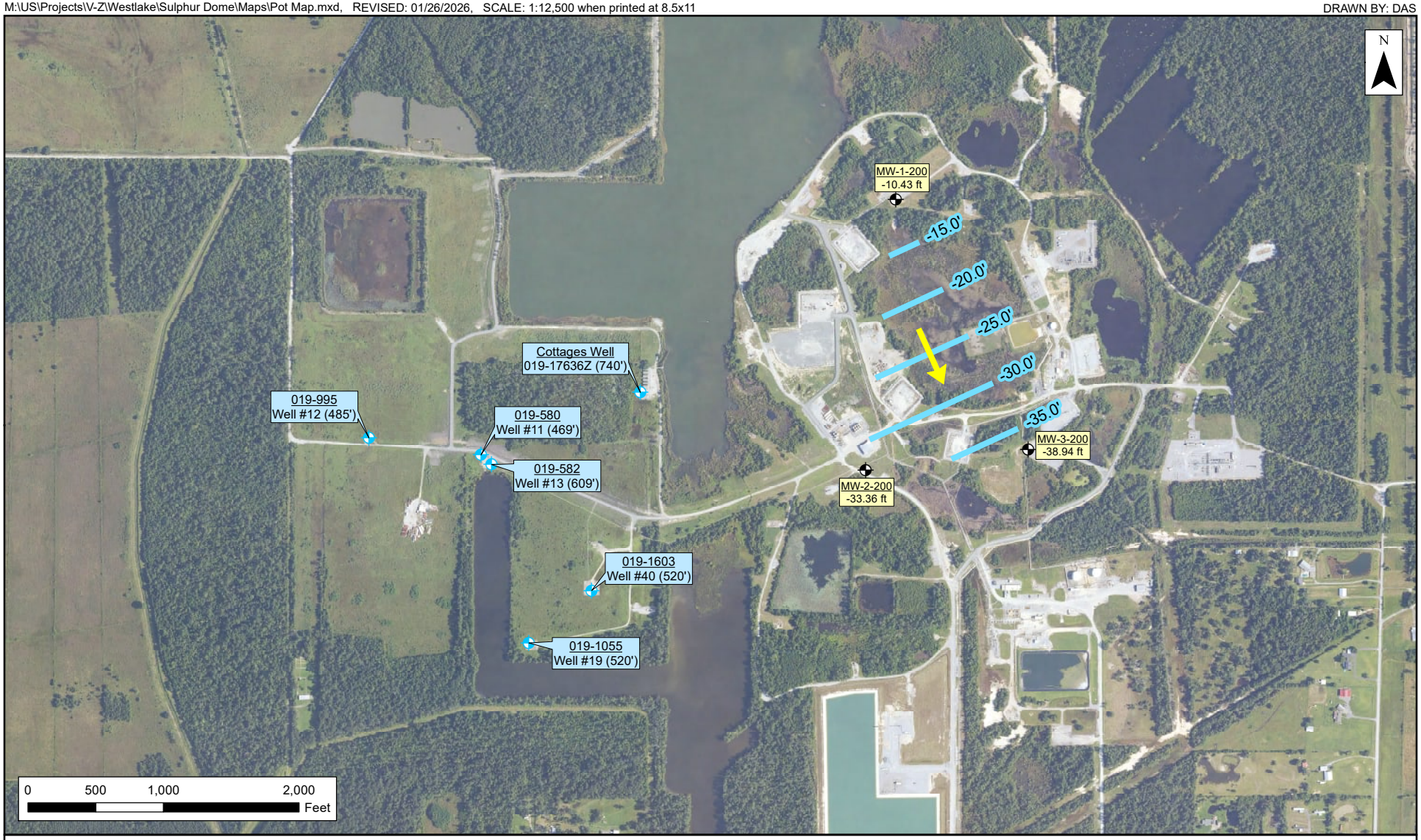


**Legend**

- Water Well Sample Location
- "200-foot" Sand Monitoring Well
- General Direction of Groundwwater Flow
- Potentiometric Surface Contour (5 ft.)

Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2025 aerial imagery via USDA NAIP.

**Figure 10**
**Potentiometric Surface Map - October 2025**
**"200-foot" Sand**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

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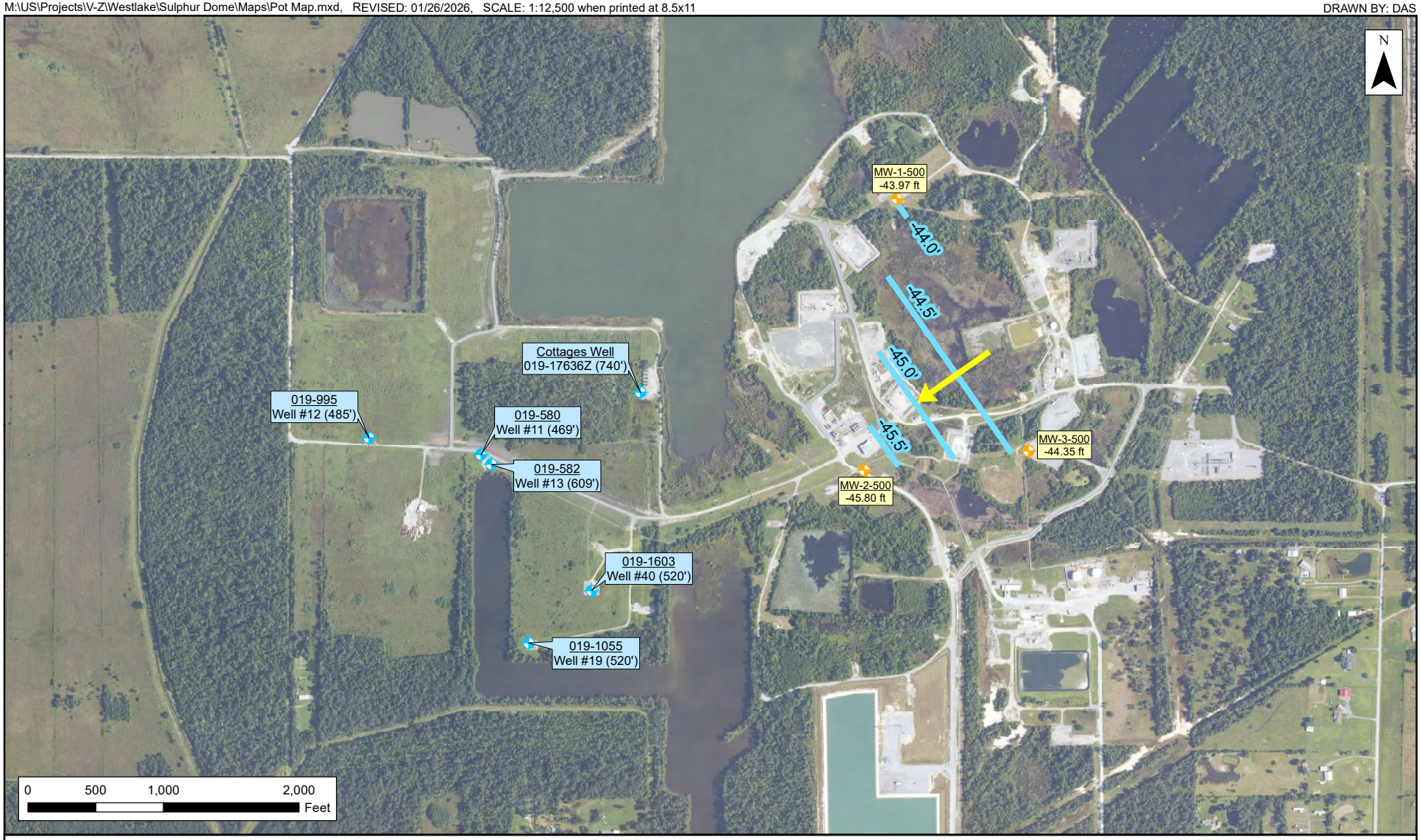


**Legend**

- Water Well Sample Location
- "500-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Countours (0.5 ft.)

Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2025 aerial imagery via USDA NAIP.

**Figure 11**
**Potentiometric Surface Map - October 2025**
**"500-foot" Sand**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

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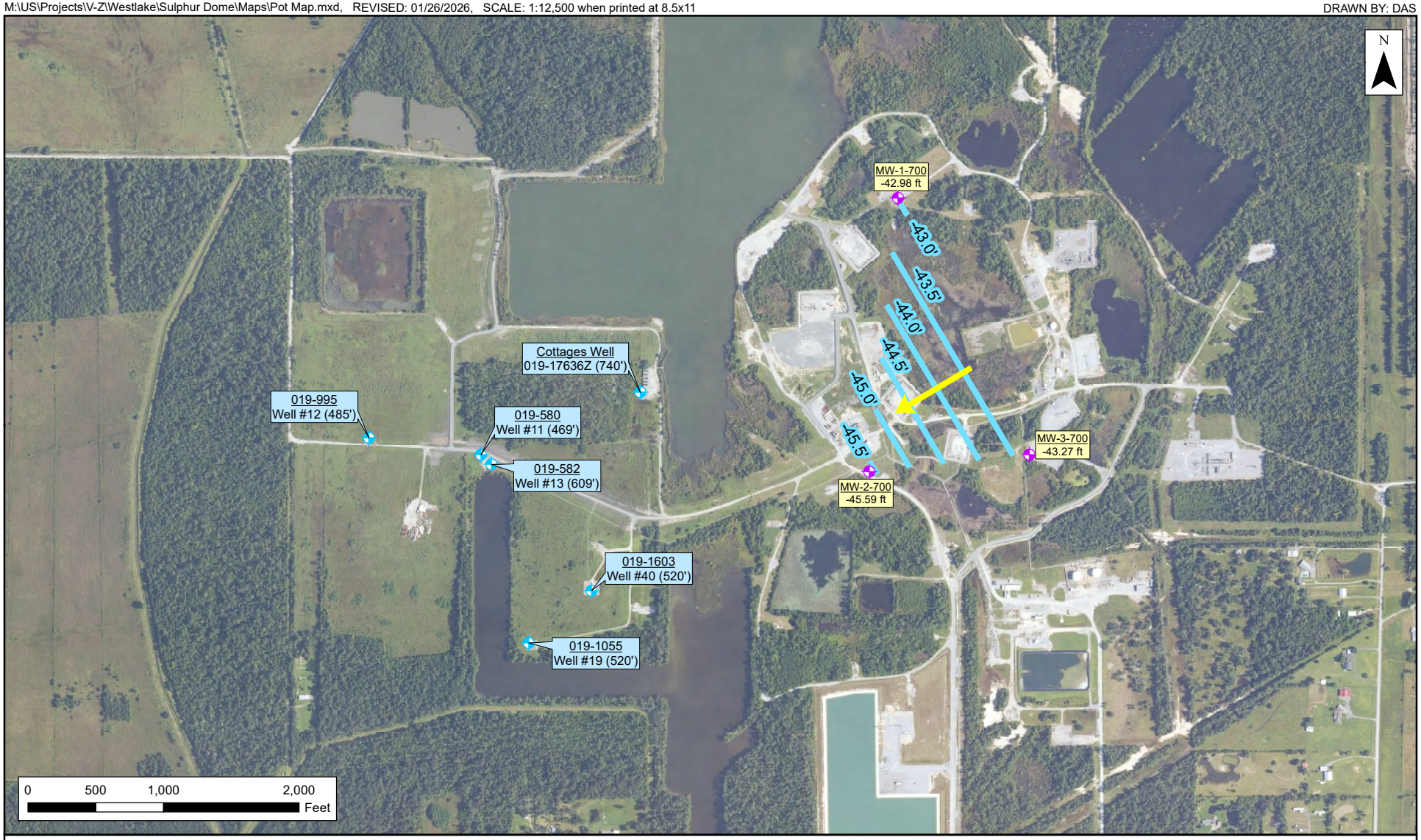


**Legend**

- Water Well Sample Location
- "700-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft)

Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2025 aerial imagery via USDA NAIP.

**Figure 12**
**Potentiometric Surface Map - October 2025**
**"700-foot" Sand**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

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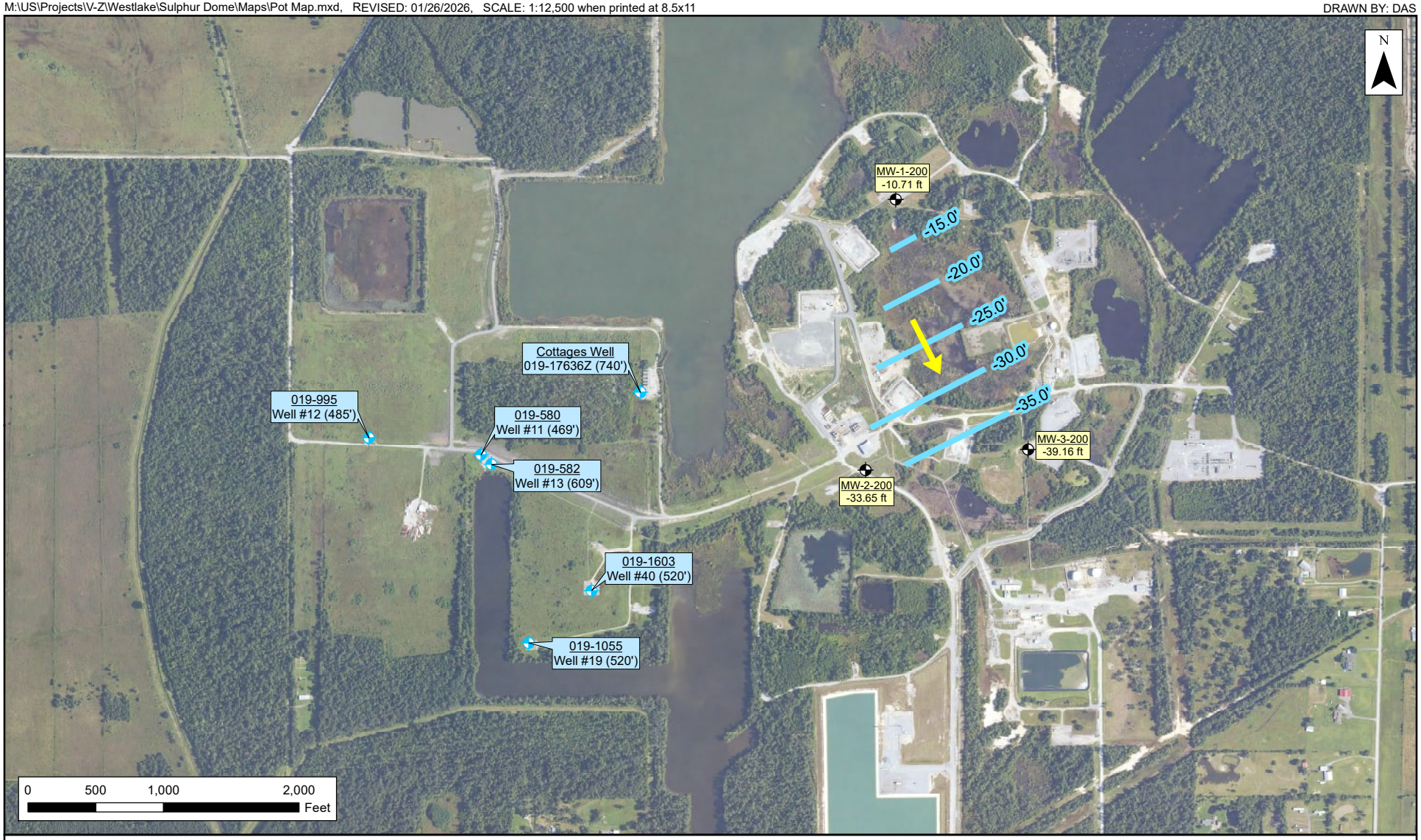


**Legend**

- Water Well Sample Location
- "200-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (5 ft.)

Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2025 aerial imagery via USDA NAIP.

**Figure 13**
**Potentiometric Surface Map - November 2025**
**"200-foot" Sand**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

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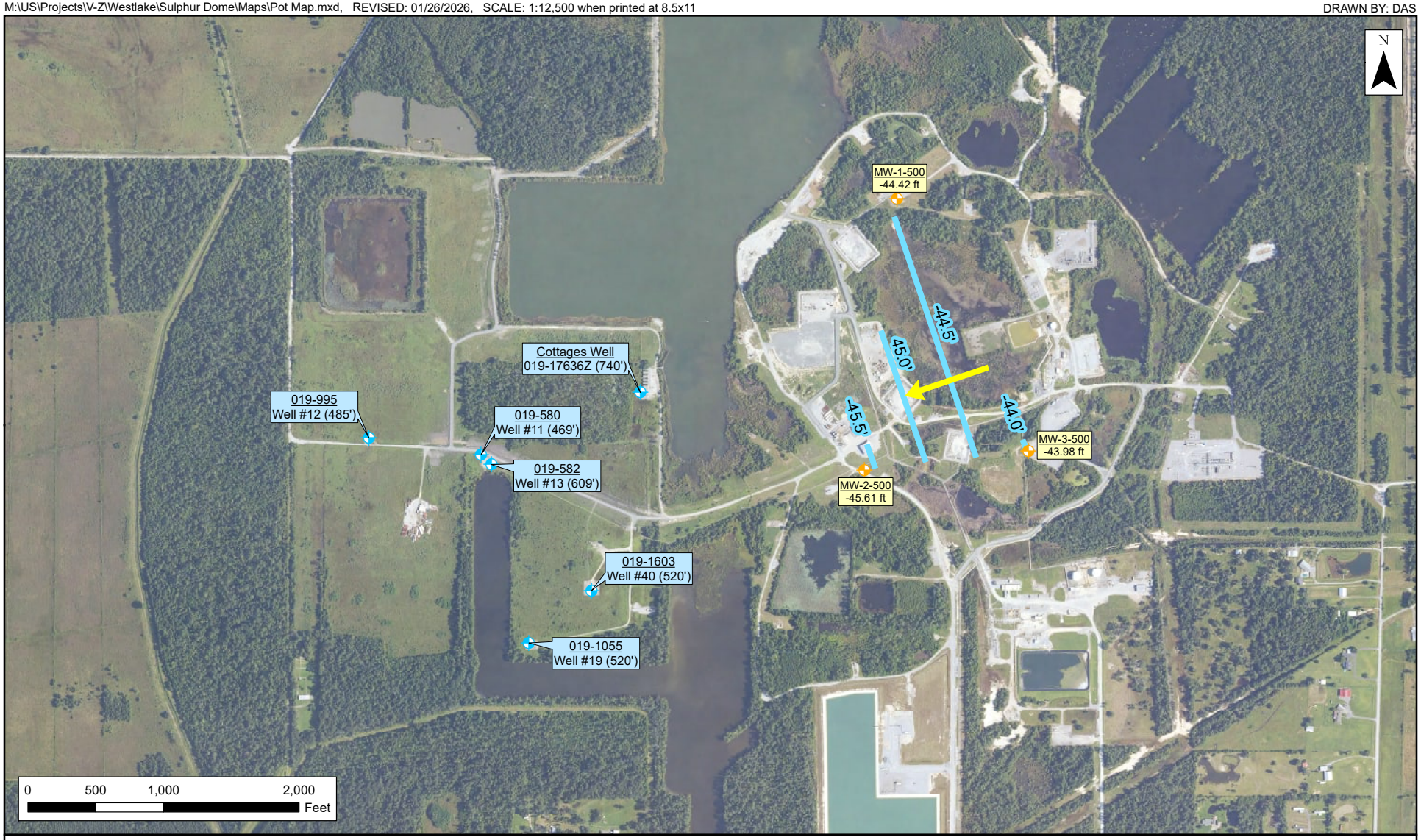



**Legend**

- Water Well Sample Location
- "500-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft.)

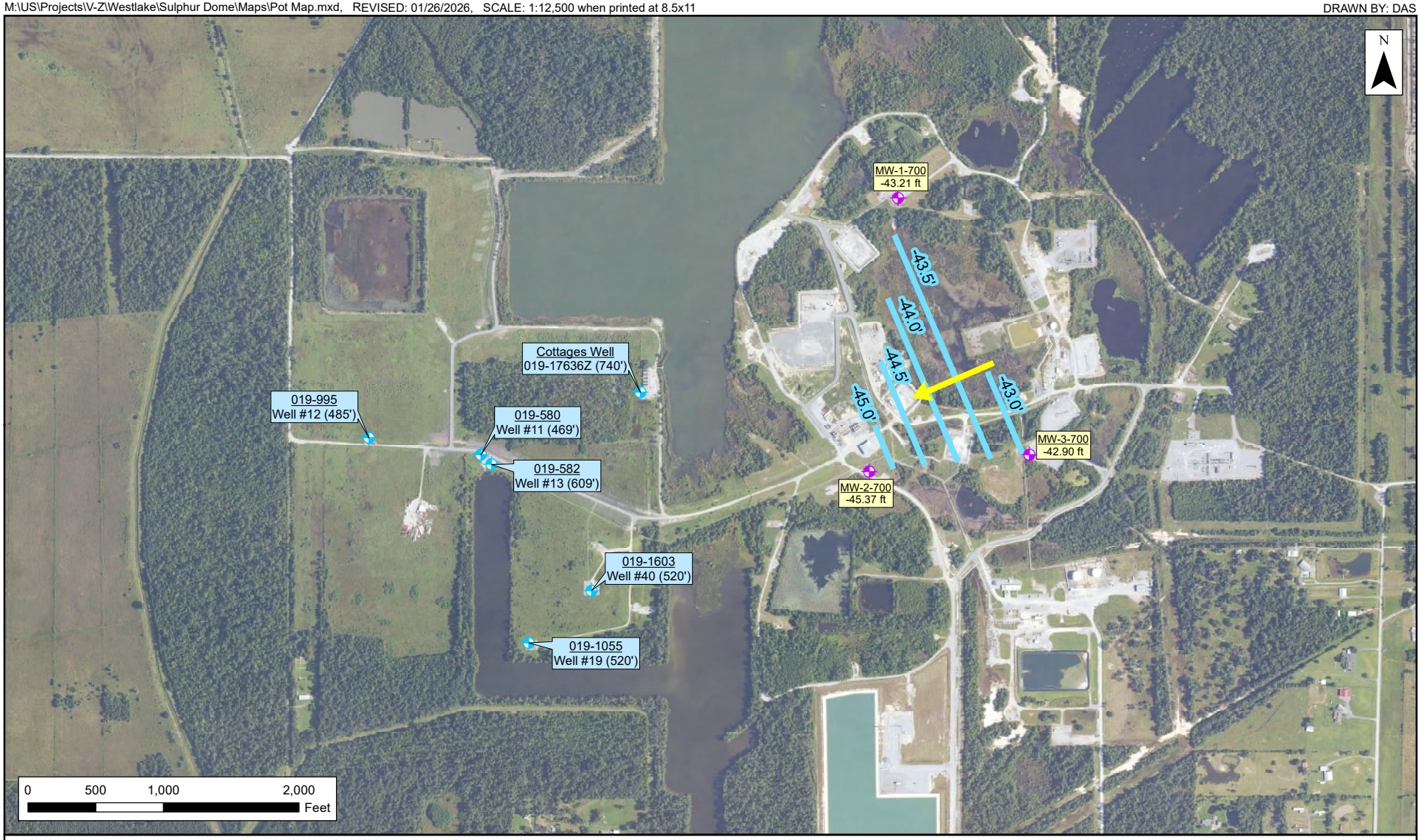
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2025 aerial imagery via USDA NAIP.

**Figure 14**
**Potentiometric Surface Map - November 2025**
**"500-foot" Sand**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 01/26/2026, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS




**Legend**

- Water Well Sample Location
- "700-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Countor (0.5 ft.)

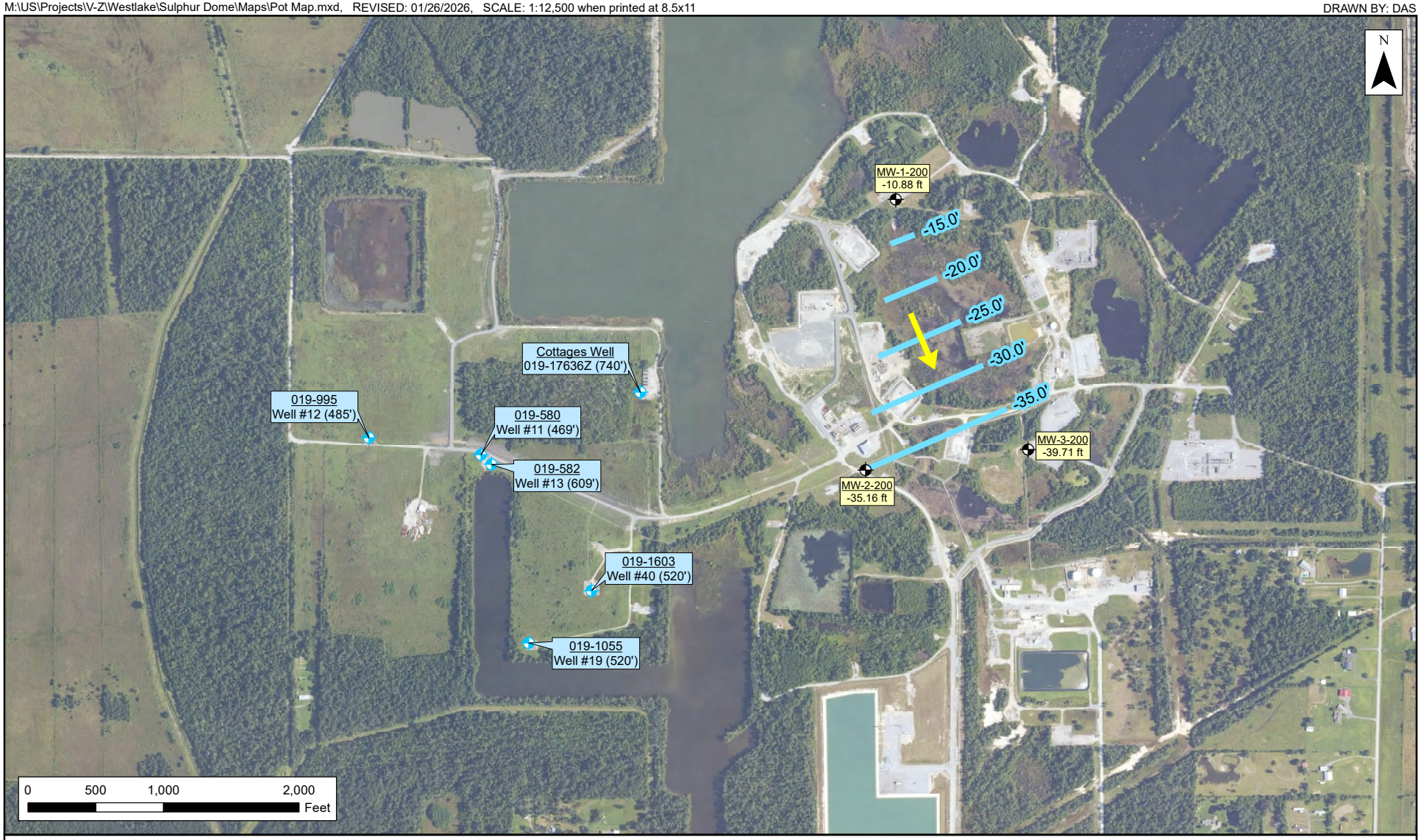
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2025 aerial imagery via USDA NAIP.

**Figure 15**
**Potentiometric Surface Map - November 2025**
**"700-foot" Sand**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 01/26/2026, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS




**Legend**

- Water Well Sample Location
- "200-foot" Sand Monitoring Well
- General Direction of Groundater Flow
- Potentiometric Surface Contour (5 ft.)

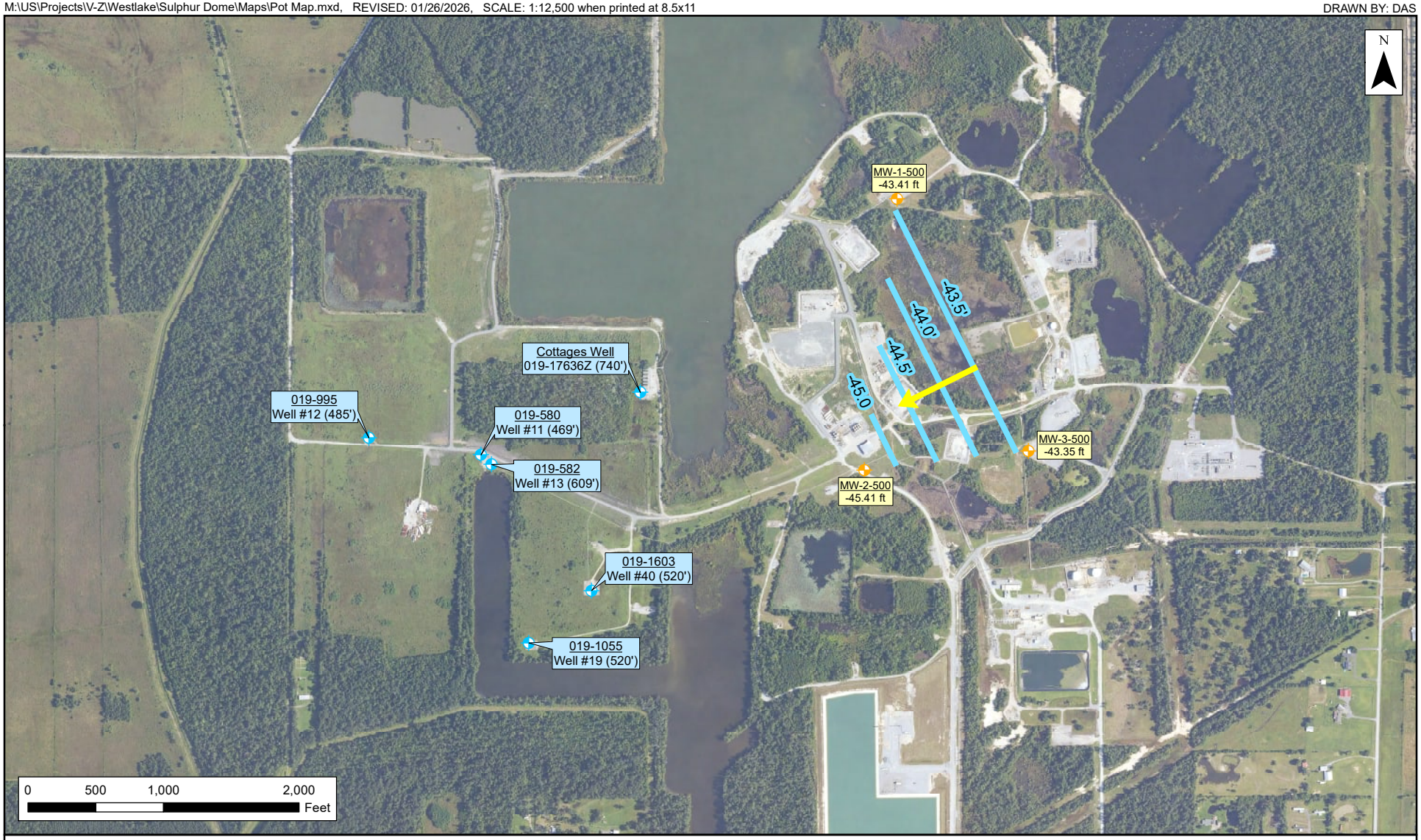
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2025 aerial imagery via USDA NAIP.

**Figure 16**
**Potentiometric Surface Map - December 2025**
**"200-foot" Sand**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 01/26/2026, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS




**Legend**

- Water Well Sample Location
- "500-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft.)

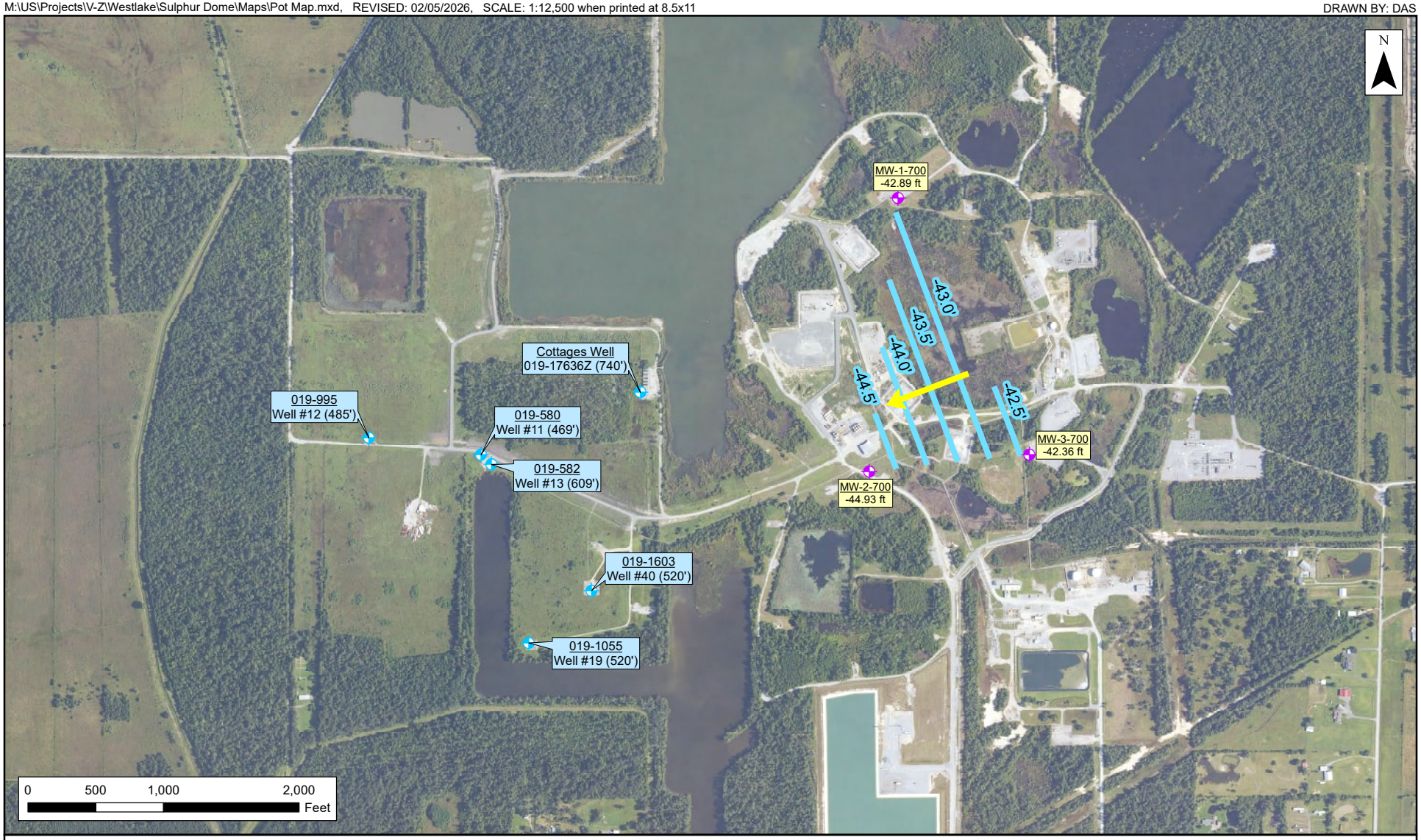
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2025 aerial imagery via USDA NAIP.

**Figure 17**
**Potentiometric Surface Map - December 2025**
**"500-foot" Sand**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 02/05/2026, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS




**Legend**

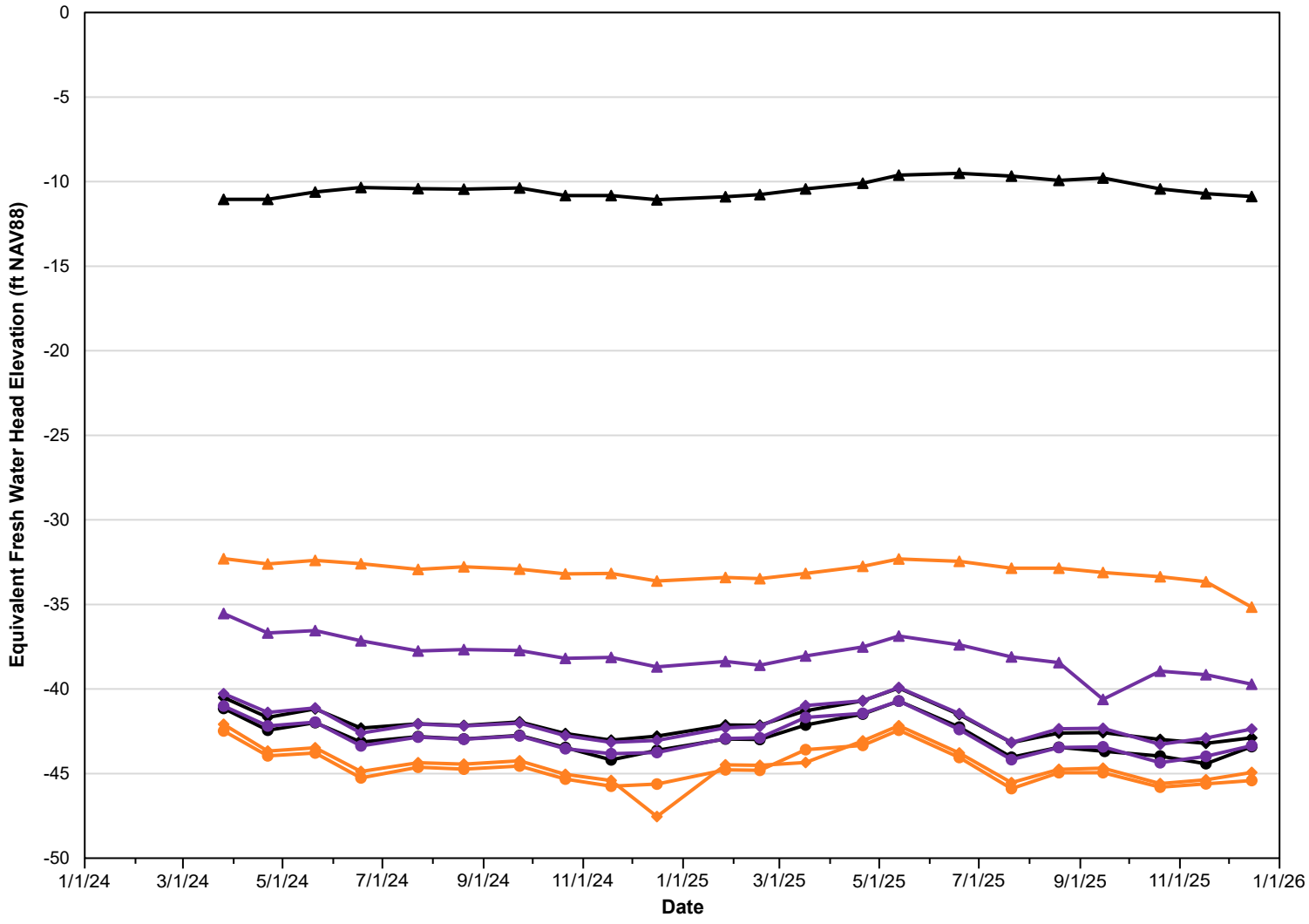
- Water Well Sample Location
- "700-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft.)

Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2025 aerial imagery via USDA NAIP.

**Figure 18**
**Potentiometric Surface Map - December 2025**
**"700-foot" Sand**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N




**Legend**

- MW-1-200
- MW-1-500
- MW-1-700
- MW-2-200
- MW-2-500
- MW-2-700
- MW-3-200
- MW-3-500
- MW-3-700

Note:
MW-1-500 water level collected prior to sampling is used for September 2025.

**Figure 19**
**Groundwater Hydrograph**
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

# TABLES

List of Tables:

1 – Groundwater Data Summary

2 – Surface Water Data Summary

3 – Central Lake Water Column Profile

4 – Gas Data Summary

5 – Survey Results and Groundwater Elevations

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| Constituent | Units | Sample ID | 019-580 | | | | | | | | | 019-582 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location | WW #11 | | | | | | | | | WW #13 | | | | | | | | |
| | | Sample Interval (ft) | 469' | | | | | | | | | 609' | | | | | | | | |
| | | Sample Date | 1/30/25 | 2/17/25 | 3/18/25 | 4/24/25 | 5/15/25 | 9/18/25 | 10/30/25 | 11/18/25 | 12/16/25 | 1/30/25 | 2/17/25 | 3/20/25 | 7/22/25 | 8/20/25 | 9/16/25 | 10/30/25 | 11/19/25 | 12/16/25 |
| | | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| | | | Industrial Water Wells | | | | | | | | | | | | | | | | | |
| **Total Metals** | | **RECAP GWSS** | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | 0.000404 J | <0.0004 | <0.0004 | 0.000510 J | 0.000710 J | 0.000666 J | <0.00051 | <0.00051 | 0.000551 J | <0.0004 | 0.000702 J | 0.000808 J | 0.000770 J | 0.000744 J | 0.000629 J | 0.00158 J | 0.000586 J | 0.000582 J |
| Barium | mg/L | 2 | **0.216** | **0.204** | **0.204** | **0.209** | **0.322** | **0.220** | **0.228** | **0.220** | **0.200** | **0.184** | **0.216** | **0.255** | **0.199** | **0.234** | **0.221** | **0.370** | **0.225** | **0.218** |
| Cadmium | mg/L | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | NS | **24.4** | **23.0** | **22.1** | **21.5** | **26.4** | **24.8** | **23.1** | **22.3** | **22.5** | **22.0** | **23.4** | **24.8** | **22.6** | **23.4** | **22.3** | **24.4** | **23.5** | **22.7** |
| Chromium | mg/L | 0.1 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | 0.000778 J | **0.00791** | 0.00495 J | <0.00173 | <0.00173 | 0.000415 J | <0.0004 | <0.0004 | 0.00235 J | <0.00173 | <0.00173 | **0.132** | <0.00173 | <0.00173 |
| Iron[a] | mg/L | 0.3 | **3.74** | **3.71** | **3.27** | **3.99** | **10.7** | **5.04** | **7.53** | **3.99** | **4.83** | **10.6** | **9.10** | **12.1** | **3.33** | **3.37** | **3.28** | **21.3** | **6.08** | **3.29** |
| Lead | mg/L | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | **0.0617** | 0.00109 J | **0.00245** | <0.000470 | **0.424** | 0.000824 J | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | **0.00979** | <0.00047 | <0.00047 |
| Magnesium | mg/L | NS | **7.51** | **6.95** | **6.84** | **6.78** | **7.70** | **7.91** | **7.25** | **7.06** | **7.23** | **6.79** | **6.95** | **7.68** | **7.00** | **7.66** | **7.02** | **7.37** | **7.30** | **6.94** |
| Manganese[a] | mg/L | 0.05 | **0.357** | **0.352** | **0.343** | **0.344** | **0.419** | **0.488** | **0.357** | **0.374** | **0.378** | **0.401** | **0.374** | **0.342** | **0.359** | **0.385** | **0.377** | **0.394** | **0.364** | **0.367** |
| Mercury | mg/L | 0.002 | <0.00003 | 0.0000400 J | <0.00003 | <0.00003 | <0.00003 | <0.00003 | 0.0000560 J | <0.00003 | <0.00003 | <0.00003 | 0.0000390 J | <0.00003 | <0.00003 | <0.00003 | <0.00003 | 0.0000510 J | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.073 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | **0.00408** | **0.00790** | <0.0013 | <0.0013 | **0.01970** | <0.0006 | 0.000722 J | 0.000845 J | 0.00170 J | <0.0013 | <0.0013 | **0.00516** | <0.0013 | <0.0013 |
| Potassium | mg/L | NS | **2.65** | **2.52** | **2.46** | **2.38** | **2.68** | **2.75** | **2.88** | **2.49** | **2.40** | **2.70** | **2.52** | **2.79** | **2.54** | **2.67** | **2.43** | **2.99** | **2.89** | **2.45** |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | NS | **25.7** | **23.6** | **24.1** | **23.0** | **30.2** | **28.4** | **38.4** | **23.9** | **25.0** | **30.6** | **23.8** | **26.7** | **25.0** | **26.5** | **23.7** | **39.0** | **36.6** | **23.8** |
| Strontium | mg/L | NS | **0.235** | **0.216** | **0.195** | **0.203** | **0.251** | **0.219** | **0.216** | **0.214** | **0.214** | **0.198** | **0.227** | **0.229** | **0.203** | **0.214** | **0.201** | **0.230** | **0.210** | **0.214** |
| Vanadium | mg/L | 0.026 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg/L | 1.1 | 0.00296 J | <0.002 | 0.00354 J | 0.00287 J | **0.0331** | **0.0164** | 0.00938 J | 0.00326 J | **1.05** | 0.00394 J | **0.00415** | **0.00526** | **0.00552** | 0.00565 J | 0.00647 J | **0.0130** | 0.00383 J | 0.00536 J |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | **124** | **130** | **114** | **112** | **120** | **104** | **121** | **111** | **112** | **134** | **118** | **154** | **115** | **104** | **111** | **120** | **116** | **116** |
| Bromide | mg/L | NS | 0.0353 J | <0.03 | <0.03 | <0.03 | **0.103** | <0.03 | 0.0803 J | <0.03 | <0.03 | 0.0999 J | 0.0373 J | <0.03 | <0.03 | <0.03 | <0.03 | 0.0803 J | 0.0766 J | <0.03 |
| Carbonate Alkalinity | mg/L | NS | <3 | <3 | <3 | <3 | <3 | <1.2 | <1.2 | <1.2 | <1.2 | <3 | <3 | <3 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chloride[a] | mg/L | 250 | **25.3** | **25.0** | **23.5** | **22.9** | **42.5** | **30.0** | **40.2** | **26.1** | **27.0** | **32.6** | **25.1** | **23.7** | **26.0** | **22.8** | **22.7** | **40.2** | **39.1** | **23.2** |
| Sulfate[a] | mg/L | 250 | **4.47** | **4.68** | **3.62** | **3.30** | **2.68** | **3.33** | **2.09** | **3.71** | **3.59** | <0.2 | **3.44** | **3.12** | **3.39** | **3.26** | **3.27** | **3.24** | **1.96** | **3.09** |
| Total Dissolved Solids (TDS)[a] | mg/L | 500 | **226** | **266** | **248** | **218** | **240** | **440** | **194** | **192** | **174** | **244** | **2,640** | **172** | **212** | **218** | **192** | **390** | **236** | **164** |
| Total Organic Carbon (TOC) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[a] | SI | 6.5 - 8.5 | 7.59 H | 6.87 H | 7.44 H | 7.25 H | 7.12 H | 7.21 H | 7.20 H | 7.32 H | 7.62 H | 7.49 H | 7.58 H | 7.03 H | 7.27 H | 7.81 H | 7.25 H | 7.22 H | 7.87 H | 7.56 H |
| pH (field) | SI | 6.5 - 8.5 | **6.68** | **6.40** | **7.11** | **7.62** | **7.10** | **6.06** | **6.71** | **5.64** | **5.97** | **6.21** | **6.03** | **6.27** | **5.95** | **6.19** | **6.25** | **6.78** | **6.61** | **5.86** |
| **Sulfides** | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | <0.5 | <0.5 | <0.5 | <0.5 | 1.62[c] | <0.5 | <0.5 | <0.5 | **1.06** | <0.5 | <0.5 | <0.5 | **1.78** | <0.5 | <0.5 | 0.552 J | <0.5 | <0.5 |
| $H_2S$ (field) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sulfide | mg/L | NS | <1.2 | <0.92 | <0.92 | <0.92 | 1.52 J[c] | <0.92 | <0.92 | <0.92 | 1.00 J | <1.2 | <0.92 | <0.92 | 1.68 J | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | | | | |
| Benzene | mg/L | 0.005 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | 0.7 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | 1 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | 10 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 7.3 | <0.025 | <0.025 | 0.0636 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | |
| δD | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[a] - EPA Secondary MCL (No RECAP standard)
[b] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[c] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| Constituent | Units | Sample ID | 019-995 | | | | | | | | | 019-1055 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location | WW #12 | | | | | | | | | WW #19 | | | | | | |
| | | Sample Interval (ft) | 485' | | | | | | | | | 520' | | | | | | |
| | | Sample Date | 2/17/25 | 3/18/25 | 4/24/25 | 5/15/25 | 7/22/25 | 8/20/25 | 9/16/25 | 10/30/25 | 11/18/25 | 12/17/25 | 1/30/25 | 4/29/25 | 5/13/25 | 8/21/25 | 9/16/25 | 11/19/25 | 12/17/25 |
| | | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| | | | Industrial Water Wells | | | | | | | | | | | | | | | | |
| **Total Metals** | | **RECAP GWSS** | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | 0.000680 J | 0.000661 J | 0.000864 J | 0.000716 J | 0.000606 J | 0.000578 J | 0.000661 J | 0.00125 J | <0.00051 | 0.000588 J | <0.0004 | 0.000492 J | 0.000435 J | 0.000778 J | 0.000577 J | <0.00051 | <0.00051 |
| Barium | mg/L | 2 | **0.197** | **0.214** | **0.180** | **0.220** | **0.202** | **0.220** | **0.234** | **0.917** | **0.212** | **0.192** | **0.256** | **0.266** | **0.236** | **0.223** | **0.217** | **0.230** | **0.286** |
| Cadmium | mg/L | 0.005 | NA | NA | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | NS | **24.7** | **23.5** | **21.3** | **25.6** | **23.3** | **23.3** | **26.4** | **26.6** | **23.4** | **23.5** | **27.0** | **26.9** | **25.6** | **25.1** | **24.3** | **25.5** | **24.0** |
| Chromium | mg/L | 0.1 | **0.00875** | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.00173 | <0.00173 | **0.106** | <0.00173 | <0.00173 | <0.0004 | <0.0004 | <0.0004 | <0.00173 | <0.00173 | <0.00173 | <0.00173 |
| Iron[(a)] | mg/L | 0.3 | **1.97** | **3.49** | **0.686** | **2.71** | **3.37** | **3.31** | **3.80** | **86.1** | **3.35** | **0.69** | **3.69** | **3.59** | **3.33** | **0.642** | **1.34** | **2.70** | **20.9** |
| Lead | mg/L | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | **0.00935** | <0.00047 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | <0.00047 | 0.000500 J |
| Magnesium | mg/L | NS | **7.33** | **7.11** | **6.67** | **7.59** | **7.22** | **7.47** | **8.19** | **7.31** | **7.19** | **7.20** | **8.05** | **8.02** | **7.43** | **8.23** | **7.60** | **8.07** | **7.37** |
| Manganese[(a)] | mg/L | 0.05 | **0.340** | **0.345** | **0.334** | **0.364** | **0.338** | **0.344** | **0.388** | **0.605** | **0.355** | **0.298** | **0.353** | **0.375** | **0.344** | **0.321** | **0.373** | **0.367** | **0.528** |
| Mercury | mg/L | 0.002 | 0.0000360 J | 0.0000400 J | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | 0.0000550 J | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.073 | **0.00910** | 0.000713 J | <0.0006 | <0.0006 | <0.0006 | <0.0013 | <0.0013 | **0.0287** | <0.0013 | 0.00199 J | <0.0006 | <0.0006 | <0.0006 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| Potassium | mg/L | NS | **2.70** | **2.39** | **2.32** | **2.63** | **2.41** | **2.55** | **2.69** | **2.86** | **2.42** | **2.42** | **2.67** | **2.74** | **2.58** | **2.86** | **2.56** | **3.00** | **2.54** |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | NS | **39.4** | **23.3** | **23.3** | **28.8** | **23.8** | **24.9** | **26.2** | **38.5** | **24.0** | **25.8** | **31.0** | **30.5** | **28.6** | **31.6** | **25.8** | **35.4** | **26.1** |
| Strontium | mg/L | NS | **0.225** | **0.212** | **0.200** | **0.237** | **0.202** | **0.205** | **0.225** | **0.282** | **0.213** | **0.224** | **0.262** | **0.250** | **0.233** | **0.229** | **0.219** | **0.224** | **0.236** |
| Vanadium | mg/L | 0.026 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg/L | 1.1 | 0.00342 J | <0.002 | **0.00628** | <0.002 | <0.002 | <0.003 | <0.003 | **0.0140** | <0.003 | <0.003 | **0.0152** | 0.00383 J | **0.00732** | 0.00501 J | 0.00565 J | 0.00581 J | 0.00624 J |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | **95.8** | **142** | **116** | **120** | **116** | **109** | **114** | **131** | **114** | **119** | **131** | **135** | **116** | **116** | **115** | **119** | **115** |
| Bromide | mg/L | NS | <0.03 | <0.03 | **0.232** | 0.0994 J | <0.03 | <0.03 | <0.03 | 0.0782 J | <0.03 | <0.03 | 0.0560 J | **0.108** | **0.102** | <0.03 | <0.03 | 0.0767 J | 0.0925 J |
| Carbonate Alkalinity | mg/L | NS | <3 | <3 | <3 | <3 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <3 | <3 | <3 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chloride[(a)] | mg/L | 250 | **72.3** | **24.3** | **23.1** | **38.6** | **23.6** | **23.6** | **23.6** | **38.4** | **23.7** | **24.4** | **41.5** | **38.1** | **43.0** | **27.3** | **25.1** | **36.0** | **29.1** |
| Sulfate[(a)] | mg/L | 250 | **5.83** | **3.55** | **3.34** | **3.18** | **3.29** | **3.26** | **3.10** | **2.18** | **3.07** | **3.60** | **3.94** | **3.09** | **3.43** | **2.83** | **2.85** | **2.25** | **2.33** |
| Total Dissolved Solids (TDS)[(a)] | mg/L | 500 | **198** | **286** | **284** | **228** | **250** | **192** | **190** | **254** | **180** | **178** | **254** | **288** | **256** | **290** | **188** | **254** | **190** |
| Total Organic Carbon (TOC) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[(a)] | SI | 6.5 - 8.5 | 6.38 H | 7.15 H | 7.21 H | 7.05 H | 7.30 H | **7.73** | 7.28 H | 7.23 H | 7.45 H | 7.64 H | 7.57 H | 6.97 H | 7.74 H | 7.65 H | 7.34 H | 7.92 H | 7.62 H |
| pH (field) | SI | 6.5 - 8.5 | **6.02** | **6.83** | **7.27** | **6.76** | **6.14** | **6.20** | **6.07** | **6.66** | **5.96** | **6.04** | **7.26** | NM | **5.10** | **6.49** | **6.33** | **6.68** | **6.13** |
| **Sulfides** | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | <0.5 | <0.5 | <0.5 | 0.552 J[(c)] | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5[(c)] | <0.5 | <0.5 | <0.5 | <0.5 |
| $H_2S$ (field) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sulfide | mg/L | NS | <0.92 | <0.92 | <0.92 | <0.92[(c)] | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <1.2 | <0.92 | <0.92[(c)] | <0.92 | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | | | |
| Benzene | mg/L | 0.005 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | 0.7 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | 1 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | 10 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | 10 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.00032 | <0.00032 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 7.3 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | |
| δD | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| Constituent | Units | Sample ID | 019-1603 | | | | | | | | | 019-17636Z | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location | WW #40 | | | | | | | | | Cottages Well | | | | | | | | |
| | | Sample Interval (ft) | 520' | | | | | | | | | 740' | | | | | | | | |
| | | Sample Date | 1/30/25 | 2/18/25 | 3/20/25 | 6/18/25 | 7/23/25 | 8/28/25 | 10/23/25 | 11/19/25 | 12/17/25 | 4/23/25 | 5/13/25 | 6/18/25 | 7/24/25 | 8/20/25 | 9/16/25 | 10/23/25 | 11/18/25 | 12/16/25 |
| | | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| | | | Industrial Water Wells | | | | | | | | | | | | | | | | | |
| **Total Metals** | | **RECAP GWSS** | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | <0.0004 | 0.000574 J | <0.0004 | <0.0004 | <0.0004 | <0.00051 | <0.00051 | <0.00051 | <0.00051 | <0.0004 | <0.0004 | <0.0004 | 0.000428 J | <0.00051 | <0.00051 | <0.00051 | <0.00051 | <0.00051 |
| Barium | mg/L | 2 | **0.170** | **0.196** | **0.193** | **0.207** | **0.236** | **0.254** | **0.239** | **0.217** | **0.185** | **0.200** | **0.187** | **0.182** | **0.184** | **0.209** | **0.205** | **0.199** | **0.191** | **0.177** |
| Cadmium | mg/L | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | NS | **19.2** | **20.7** | **25.8** | **23.0** | **24.3** | **26.0** | **27.0** | **23.7** | **20.6** | **15.0** | **15.1** | **15.3** | **13.6** | **15.4** | **14.9** | **16.6** | **13.3** | **13.6** |
| Chromium | mg/L | 0.1 | <0.0004 | 0.00237 J | <0.0004 | <0.0004 | 0.000570 J | <0.00173 | <0.00173 | <0.00173 | <0.00173 | <0.0004 | 0.000423 J | <0.0004 | **0.0139** | <0.00173 | <0.00173 | <0.00173 | <0.00173 | <0.00173 |
| Iron[a] | mg/L | 0.3 | **2.84** | **2.76** | **9.92** | **3.40** | **3.61** | **3.70** | **3.93** | **9.92** | **8.42** | **2.67** | **2.10** | **5.13** | **4.21** | **3.27** | **8.00** | **5.83** | **4.97** | **5.53** |
| Lead | mg/L | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | <0.00047 | <0.00047 | <0.0006 | <0.0006 | 0.000626 J | **0.00388** | <0.0047 | <0.0047 | <0.0047 | <0.0047 | 0.00173 J |
| Magnesium | mg/L | NS | **5.76** | **5.92** | **7.99** | **7.13** | **7.46** | **8.23** | **7.91** | **7.59** | **6.79** | **3.48** | **3.94** | **4.22** | **3.69** | **4.43** | **4.11** | **4.40** | **3.69** | **3.78** |
| Manganese[a] | mg/L | 0.05 | **0.250** | **0.297** | **0.619** | **0.313** | **0.342** | **0.351** | **0.385** | **0.452** | **0.408** | **0.205** | **0.195** | **0.186** | **0.170** | **0.210** | **0.240** | **0.234** | **0.187** | **0.190** |
| Mercury | mg/L | 0.002 | <0.00003 | <0.00003 | 0.0000310 J | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.073 | **0.00497** | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0013 | <0.0013 | <0.0013 | <0.0013 | <0.0006 | <0.0006 | **0.00334** | **0.00556** | <0.0013 | <0.0013 | <0.0013 | <0.0013 | 0.00134 J |
| Potassium | mg/L | NS | **2.52** | **2.68** | **3.22** | **3.13** | **3.13** | **3.32** | **3.39** | **3.07** | **2.78** | **1.86** | **2.21** | **2.44** | **2.19** | **2.51** | **2.30** | **2.57** | **2.09** | **2.15** |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | NS | **32.7** | **33.7** | **43.9** | **40.0** | **39.8** | **43.3** | **42.1** | **41.7** | **35.9** | **58.4** | **57.0** | **70.5** | **71.0** | **78.2** | **75.1** | **67.7** | **66.6** | **71.6** |
| Strontium | mg/L | NS | **0.178** | **0.184** | **0.225** | **0.197** | **0.225** | **0.231** | **0.238** | **0.208** | **0.197** | **0.165** | **0.170** | **0.171** | **0.160** | **0.178** | **0.171** | **0.190** | **0.166** | **0.170** |
| Vanadium | mg/L | 0.026 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg/L | 1.1 | **0.00770** | **0.0222** | **0.0102** | **0.0136** | **0.0101** | **0.0102** | **0.0106** | **0.2710** | **0.0136** | **0.0637** | **0.0149** | **0.277** | **3.65** | **0.0756** | **0.273** | **0.107** | **0.265** | **0.146** |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | **129** | **133** | **122** | **130** | **122** | **122** | **124** | **117** | **138** | **128** | **124** | **133** | **141** | **136** | **142** | **125** | **133** | **141** |
| Bromide | mg/L | NS | 0.0301 J | <0.03 | 0.0938 J | 0.0937 J | **0.100** | <0.03 | 0.0798 J | 0.835 J | <0.03 | **0.117** | **0.107** | **0.117** | **0.128** | <0.03 | 0.0978 J | 0.0853 J | 0.0848 J | **0.104** |
| Carbonate Alkalinity | mg/L | NS | <3 | <3 | <3 | <3 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <3 | <3 | <3 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chloride[a] | mg/L | 250 | **32.4** | **28.5** | **42.4** | **33.3** | **43.6** | **44.1** | **39.8** | **42.1** | **32.4** | **44.6** | **49.9** | **50.4** | **55.8** | **52.2** | **54.1** | **47.6** | **53.4** | **54.4** |
| Sulfate[a] | mg/L | 250 | **5.32** | **4.37** | 0.315 J | **2.76** | **2.63** | **2.94** | **2.38** | <0.2 | **0.63** | 0.488 J | **0.513** | 0.393 J | <0.2 | 0.226 J | <0.2 | 0.224 J | <0.2 | 0.260 J |
| Total Dissolved Solids (TDS)[a] | mg/L | 500 | **260** | **242** | **230** | **160** | **296** | **296** | **268** | **220** | **196** | **272** | **288** | **202** | **288** | **240** | **230** | **266** | **306** | **236** |
| Total Organic Carbon (TOC) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[a] | SI | 6.5 - 8.5 | 7.83 H | 8.13 H | 7.41 H | 7.32 H | 7.43 H | 7.42 H | 7.47 H | 7.98 H | 7.82 H | 8.18 H | 7.52 H | 7.34 H | 7.43 H | 8.07 H | 7.37 H | 7.60 H | 7.54 H | 7.60 H |
| pH (field) | SI | 6.5 - 8.5 | **6.46** | **6.29** | **7.20** | **6.27** | **6.95** | NA | **6.73** | **7.11** | **6.51** | **7.41** | **5.45** | NA | **7.40** | **6.20** | **6.39** | **6.39** | **5.71** | **5.95** |
| **Sulfides** | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.722 J | <0.5 | **2.12** | <0.5 | 3.74[c] | <0.5 | <0.5 | <0.5 | <0.5 | **1.78** | <0.5 | <0.5 |
| $H_2S$ (field) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sulfide | mg/L | NS | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | 2.00 J | <0.92 | 3.52 J[c] | <0.92 | <0.92 | <0.92 | <0.92 | 1.68 J | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | | | | |
| Benzene | mg/L | 0.005 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | 0.7 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | 1 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | 10 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 7.3 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | |
| δD | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[a] - EPA Secondary MCL (No RECAP standard)
[b] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[c] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| Constituent | Units | Sample ID | MW-1 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location | MW-1-200 | | | | | | | | | | | |
| | | Sample Interval (ft) | 162-172' | | | | | | | | | | | |
| | | Sample Date | 1/29/25 | 2/18/25 | 3/17/25 | 4/22/25 | 5/13/25 | 6/19/25 | 7/21/25 | 8/20/25 | 9/15/25 | 10/23/25 | 11/17/25 | 12/15/25 |
| | | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| | | | Monitoring Wells | | | | | | | | | | | |
| **Total Metals** | | **RECAP GWSS** | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | **0.0100** | **0.00837** | **0.00828** | **0.00770** | **0.00693** | **0.00852** | **0.00902** | **0.00829** | **0.00825** | **0.00768** | **0.00802** | **0.00751** |
| Barium | mg/L | 2 | **0.269** | **0.238** | **0.251** | **0.234** | **0.227** | **0.277** | **0.290** | **0.275** | **0.288** | **0.271** | **0.282** | **0.269** |
| Cadmium | mg/L | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | NS | **20.6** | **17.5** | **16.3** | **15.3** | **15.1** | **20.0** | **21.9** | **20.7** | **19.6** | **18.8** | **19.8** | **20.4** |
| Chromium | mg/L | 0.1 | <0.0004 | <0.0004 | 0.00197 J | <0.0004 | <0.0004 | <0.0004 | 0.00114 J | <0.00173 | <0.00173 | <0.00173 | <0.00173 | <0.00173 |
| Iron[(a)] | mg/L | 0.3 | 0.188 J | **0.225** | **0.253** | 0.158 J | **0.221** | **0.398** | **0.264** | 0.159 J | 0.184 J | 0.157 J | **0.220** | **0.269** |
| Lead | mg/L | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | <0.00047 | <0.00047 | <0.00047 |
| Magnesium | mg/L | NS | **9.72** | **8.71** | **9.01** | **9.08** | **8.80** | **10.1** | **10.7** | **10.1** | **9.96** | **10.3** | **9.52** | **9.82** |
| Manganese[(a)] | mg/L | 0.05 | **0.0608** | **0.0466** | **0.0342** | **0.0314** | **0.0276** | **0.0566** | **0.0607** | **0.0583** | **0.0549** | **0.0445** | **0.0581** | **0.0563** |
| Mercury | mg/L | 0.002 | <0.00003 | <0.00003 | 0.000169 J | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.073 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.000665 J | <0.0006 | <0.0013 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| Potassium | mg/L | NS | **2.14** | **1.98** | **2.00** | **1.71** | **2.10** | **2.24** | **2.32** | **2.13** | **2.09** | **2.35** | **2.00** | **1.97** |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | NS | **97.6** | **89.7** | **91.3** | **94.5** | **96.8** | **102** | **107** | **101** | **100** | **106** | **94.8** | **95.2** |
| Strontium | mg/L | NS | **0.280** | **0.251** | **0.246** | **0.234** | **0.248** | **0.269** | **0.300** | **0.264** | **0.277** | **0.287** | **0.288** | **0.282** |
| Vanadium | mg/L | 0.026 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg/L | 1.1 | **0.0143** | <0.002 | 0.00202 J | <0.002 | <0.002 | **0.00934** | 0.00204 J | <0.003 | <0.003 | 0.00392 J | **0.0434** | 0.00327 J |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | **276** | **279** | **308** | **241** | **228** | **258** | **252** | **245** | **256** | **243** | **242** | **257** |
| Bromide | mg/L | NS | 0.0820 J | 0.0704 J | <0.03 | <0.03 | 0.0818 J | <0.03 | <0.03 | <0.03 | 0.0742 J | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | NS | **8.80** | **17.60** | **16.2** | **27.8** | **27.4** | **11.6** | **13.8** | **10.8** | **12.4** | **17.6** | **13.0** | **13.0** |
| Chloride[(a)] | mg/L | 250 | **38.6** | **37.2** | **35.6** | **35.0** | **38.0** | **35.8** | **36.0** | **36.9** | **36.5** | **36.7** | **37.1** | **36.8** |
| Sulfate[(a)] | mg/L | 250 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Total Dissolved Solids (TDS)[(a)] | mg/L | 500 | **312** | **358** | **276** | **298** | **368** | **320** | **368** | **284** | **338** | **404** | **358** | **318** |
| Total Organic Carbon (TOC) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[(a)] | SI | 6.5 - 8.5 | 8.39 H | 8.85 H | 8.33 H | 8.84 H | 8.82 H | 8.42 H | 8.45 H | 8.46 H | 8.39 H | 8.65 H | 8.52 H | 8.51 H |
| pH (field) | SI | 6.5 - 8.5 | **8.33** | **8.59** | **8.44** | **9.10** | **8.63** | **8.26** | **8.17** | **7.95** | **8.48** | **8.55** | **8.42** | **8.08** |
| **Sulfides** | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | **1.28** | <0.5 | <0.5 | <0.5 | 4.80[(c)] | **8.88** | **8.16** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| $H_2S$ (field) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | **0.0** | **0.0** | **0.0** | **0.0** | NA |
| Sulfide | mg/L | NS | 1.20 J | <0.92 | <0.92 | <0.92 | 4.52 J[(c)] | **8.36** | **7.68** | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | |
| Benzene | mg/L | 0.005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | 0.7 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | 1 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | 10 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 7.3 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | |
| δD | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | | Sample ID | MW-1 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location | MW-1-500 | | | | | | | | | | |
| | | Sample Interval (ft) | 503-513' | | | | | | | | | | |
| | | Sample Date | 1/29/25 | 2/18/25 | 3/17/25 | 4/22/25 | 5/13/25 | 6/19/25 | 7/21/25 | 8/20/25 | 9/16/25 | 10/22/25 | 11/19/25 | 12/16/25 |
| | | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | | **Monitoring Wells** | | | | | | | | | | | |
| **Total Metals** | | **RECAP GWSS** | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | 0.000459 J | 0.00102 J | 0.000653 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.00051 | 0.000545 J | <0.00051 | 0.000797 J | 0.000760 J |
| Barium | mg/L | 2 | **0.221** | **0.227** | **0.227** | **0.226** | **0.219** | **0.209** | **0.209** | **0.204** | **0.211** | **0.217** | **0.185** | **0.189** |
| Cadmium | mg/L | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | NS | **12.3** | **12.4** | **12.9** | **9.18** | **9.12** | **9.18** | **9.00** | **11.5** | **12.7** | **11.1** | **12.1** | **14.8** |
| Chromium | mg/L | 0.1 | <0.0004 | 0.00281 J | 0.000788 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.00173 | <0.00173 | <0.00173 | <0.00173 | <0.00173 |
| Iron[(a)] | mg/L | 0.3 | **0.939** | **0.381** | **0.268** | <0.012 | **0.637** | **0.770** | **0.894** | **0.791** | **0.792** | **1.18** | **0.977** | **1.81** |
| Lead | mg/L | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | <0.00047 | <0.00047 | <0.00047 |
| Magnesium | mg/L | NS | **4.58** | **4.29** | **4.74** | **3.66** | **4.43** | **5.05** | **5.08** | **5.28** | **5.14** | **5.52** | **5.01** | **5.18** |
| Manganese[(a)] | mg/L | 0.05 | **0.0364** | **0.0370** | **0.0330** | **0.0224** | **0.0283** | **0.0292** | **0.0327** | **0.0313** | **0.0396** | **0.0366** | **0.0381** | **0.0635** |
| Mercury | mg/L | 0.002 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.073 | <0.0006 | 0.000862 J | 0.00109 J | 0.00103 J | <0.0006 | <0.0006 | <0.0006 | <0.0013 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| Potassium | mg/L | NS | **5.35** | **5.19** | **5.68** | **7.16** | **7.46** | **8.37** | **8.63** | **8.62** | **7.96** | **10.2** | **7.98** | **7.14** |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | NS | **47.2** | **44.1** | **45.8** | **47.2** | **48.7** | **53.7** | **51.0** | **51.8** | **48.4** | **53.0** | **45.0** | **43.5** |
| Strontium | mg/L | NS | **0.254** | **0.245** | **0.248** | **0.220** | **0.235** | **0.233** | **0.237** | **0.244** | **0.258** | **0.265** | **0.238** | **0.270** |
| Vanadium | mg/L | 0.026 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg/L | 1.1 | <0.002 | 0.00326 J | 0.00235 J | <0.002 | **0.0115** | **0.00441** | **0.0123** | 0.00491 J | 0.00955 J | 0.00742 J | <0.003 | 0.00459 J |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | **127** | **132** | **170** | **129** | **125** | **128** | **128** | **120** | **129** | **127** | **127** | **132** |
| Bromide | mg/L | NS | 0.0736 J | 0.0414 J | <0.03 | <0.03 | 0.0786 J | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | NS | **7.40** | 8.20 J | <3 | 9.60 J | **11.4** | 8.40 J | **9.80** | **9.40** | **9.60** | **9.00** | **10.4** | **11.6** |
| Chloride[(a)] | mg/L | 250 | **25.0** | **26.9** | **22.7** | **22.8** | **24.6** | **21.8** | **21.4** | **21.9** | **21.1** | **21.8** | **21.3** | **20.6** |
| Sulfate[(a)] | mg/L | 250 | <0.2 | 0.238 J | 0.286 J | 0.214 J | <0.2 | <0.2 | <0.2 | <0.2 | 0.251 J | <0.2 | <0.2 | 0.367 J |
| Total Dissolved Solids (TDS)[(a)] | mg/L | 500 | **170** | **206** | **160** | **218** | **202** | **172** | **500** | **140** | **148** | **204** | **226** | **168** |
| Total Organic Carbon (TOC) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[(a)] | SI | 6.5 - 8.5 | 8.72 H | 9.39 H | 8.59 H | 8.66 H | 8.72 H | 8.55 H | 8.62 H | 8.66 H | 8.58 H | 8.64 H | 8.68 H | 8.66 H |
| pH (field) | SI | 6.5 - 8.5 | **8.74** | **8.68** | **8.56** | **8.86** | **8.38** | **8.27** | **7.99** | **8.15** | **8.52** | **8.41** | **8.51** | **8.273** |
| **Sulfides** | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | **3.40** | 0.638 J | **1.28** | <0.5 | 1.62[(c)] | **2.30** | **16.7** | <0.5 | <0.5 | <0.5 | <0.5 | **2.12** |
| $H_2S$ (field) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | **0.0** | NA | **0.0** | **0.0** | **0.0** |
| Sulfide | mg/L | NS | **3.20** | <0.92 | 1.20 J | <0.92 | 1.52 J[(c)] | 2.16 J | **15.7** | <0.92 | <0.92 | <0.92 | <0.92 | 2.00 J |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | |
| Benzene | mg/L | 0.005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | 0.7 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | 1 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | 10 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 7.3 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | |
| δD | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | | Sample ID | MW-1 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location | MW-1-700 | | | | | | | | | | |
| | | Sample Interval (ft) | 694-704' | | | | | | | | | | |
| | | Sample Date | 1/29/25 | 2/18/25 | 3/18/25 | 4/22/25 | 5/13/25 | 6/19/25 | 7/22/25 | 8/20/25 | 9/16/25 | 10/22/25 | 11/19/25 | 12/16/25 |
| | | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | | **Monitoring Wells** | | | | | | | | | | | |
| **Total Metals** | | **RECAP GWSS** | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | 0.000939 J | 0.00134 J | 0.00105 J | 0.000535 J | 0.00137 J | 0.000675 J | 0.00114 J | 0.00109 J | 0.000651 J | 0.00174 J | 0.00162 J | 0.00192 J |
| Barium | mg/L | 2 | **0.0732** | **0.0737** | **0.0718** | **0.0697** | **0.0677** | **0.0599** | **0.0549** | **0.0605** | **0.0550** | **0.0627** | **0.0542** | **0.0516** |
| Cadmium | mg/L | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | NS | **2.56** | **2.66** | **2.69** | **1.84** | **2.80** | **2.05** | **2.23** | **2.36** | **1.70** | **2.65** | **2.55** | **2.67** |
| Chromium | mg/L | 0.1 | 0.000906 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 | 0.000405 J | 0.000591 J | <0.00173 | <0.00173 | <0.00173 | <0.00173 | <0.00173 |
| Iron[(a)] | mg/L | 0.3 | **0.964** | **0.96** | **1.83** | 0.0607 J | **1.03** | **0.917** | **0.905** | **0.710** | **0.419** | **0.946** | **0.646** | **0.538** |
| Lead | mg/L | 0.015 | 0.000967 J | <0.0006 | 0.000961 J | 0.00161 J | 0.000681 J | **0.00204** | **0.00213** | 0.000545 J | <0.00047 | 0.000771 J | 0.000477 J | <0.00047 |
| Magnesium | mg/L | NS | **0.428** | **0.387** | **0.418** | **0.313** | **0.418** | **0.396** | **0.346** | **0.378** | **0.345** | **0.367** | **0.33** | **0.275** |
| Manganese[(a)] | mg/L | 0.05 | **0.00852** | **0.00931** | **0.0155** | 0.00146 J | **0.0111** | **0.0113** | **0.00896** | **0.00703** | **0.00505** | **0.0104** | **0.0080** | **0.0069** |
| Mercury | mg/L | 0.002 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.073 | 0.000627 J | 0.000661 J | 0.00164 J | <0.0006 | <0.0006 | 0.000851 J | 0.000832 J | <0.0013 | <0.0013 | 0.00421 J | <0.0013 | <0.0013 |
| Potassium | mg/L | NS | **2.60** | **2.35** | **2.16** | **2.20** | **2.30** | **2.92** | **2.35** | **2.79** | **2.69** | **2.76** | **2.71** | **2.27** |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | NS | **206** | **179** | **171** | **160** | **189** | **236** | **177** | **211** | **181** | **231** | **212** | **186** |
| Strontium | mg/L | NS | **0.0748** | **0.0754** | **0.0705** | **0.0675** | **0.0703** | **0.0655** | **0.0604** | **0.0635** | **0.0578** | **0.0687** | **0.0621** | **0.0621** |
| Vanadium | mg/L | 0.026 | 0.000610 J | 0.00100 J | <0.0006 | <0.0006 | 0.00116 J | <0.0006 | <0.0006 | 0.000752 J | <0.0006 | 0.00100 J | 0.000944 J | 0.00117 J |
| Zinc | mg/L | 1.1 | 0.00222 J | 0.00245 J | 0.00323 J | **0.0221** | 0.00396 J | **0.00612** | **0.00560** | 0.00402 J | 0.00574 J | 0.005733 J | 0.00377 J | 0.00367 J |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | **220** | **223** | **296** | **237** | **207** | **222** | **203** | **203** | **216** | **197** | **198** | **202** |
| Bromide | mg/L | NS | **0.132** | **0.107** | <0.03 | <0.03 | **0.131** | **0.142** | <0.03 | <0.03 | <0.03 | **0.102** | 0.0979 J | <0.03 |
| Carbonate Alkalinity | mg/L | NS | **72.8** | **84.6** | **48.6** | **50.6** | **70.8** | **65.0** | **85.4** | **72.0** | **74.0** | **89.4** | **82.2** | **96.4** |
| Chloride[(a)] | mg/L | 250 | **107** | **110** | **102** | **102** | **108** | **99.6** | **99.8** | **101** | **101** | **100** | **101** | **98** |
| Sulfate[(a)] | mg/L | 250 | **0.512** | **0.926** | **0.829** | 0.309 J | 0.497 J | <0.2 | <0.2 | 0.381 J | 0.278 J | 0.319 J | <0.2 | <0.2 |
| Total Dissolved Solids (TDS)[(a)] | mg/L | 500 | **440** | **490** | **518** | **444** | **484** | **448** | **508** | **424** | **426** | **504** | **460** | **424** |
| Total Organic Carbon (TOC) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[(a)] | SI | 6.5 - 8.5 | 9.48 H | 9.24 H | 9.11 H | 9.26 H | 9.48 H | 9.29 H | 9.54 H | 9.54 H | 9.39 H | 9.58 H | 9.54 H | 9.51 H |
| pH (field) | SI | 6.5 - 8.5 | **19.29** | **20.29** | **21.29** | **22.29** | **23.29** | **24.29** | **25.29** | **8.83** | **9.23** | **9.40** | **9.42** | **9.07** |
| **Sulfides** | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | **1.28** | <0.5 | <0.5 | <0.5 | 3.74[(c)] | **17.4** | **16.7** | <0.5 | <0.5 | <0.5 | <0.5 | **2.12** |
| $H_2S$ (field) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | **0.3** | **0.1** | NA | **0.1** | **0.1** |
| Sulfide | mg/L | NS | 1.20 J | <0.92 | <0.92 | <0.92 | 3.52 J[(c)] | **16.4** | **15.7** | <0.92 | <0.92 | <0.92 | <0.92 | 2.00 J |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | |
| Benzene | mg/L | 0.005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | 0.7 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | 1 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | 0.00067 J | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | 10 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 7.3 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.025 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | |
| δD | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | | Sample ID | MW-2 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location | MW-2-200 | | | | | | | | | | |
| | | Sample Interval (ft) | 230-240' | | | | | | | | | | |
| | | Sample Date | 1/28/25 | 2/19/25 | 3/19/25 | 4/23/25 | 5/15/25 | 6/18/25 | 7/22/25 | 8/21/25 | 9/17/25 | 10/23/25 | 11/19/25 | 12/18/25 |
| | | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | | **Monitoring Wells** | | | | | | | | | | | |
| **Total Metals** | | **RECAP GWSS** | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | 0.000616 J | 0.000667 J | 0.00186 J | 0.000838 J | **0.00407** | 0.000880 J | 0.000852 J | 0.00151 J | 0.00127 J | **0.00437** | **0.00459** | **0.00278** |
| Barium | mg/L | 2 | **0.0794** | **0.0863** | **0.115** | **0.0939** | **0.168** | **0.0985** | **0.107** | **0.141** | **0.139** | **0.203** | **0.236** | **0.178** |
| Cadmium | mg/L | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | NS | **6.51** | **6.45** | **7.10** | **6.53** | **16.5** | **7.83** | **8.68** | **11.0** | **10.3** | **20.1** | **24.1** | **17.1** |
| Chromium | mg/L | 0.1 | 0.000849 J | 0.00114 J | <0.0004 | 0.000413 J | <0.0004 | <0.0004 | <0.0004 | <0.00173 | <0.00173 | <0.00173 | <0.00173 | <0.00173 |
| Iron[(a)] | mg/L | 0.3 | **1.64** | **0.470** | **1.07** | **1.13** | **0.856** | **1.09** | **0.796** | **1.94** | **1.34** | **1.22** | **0.956** | **1.19** |
| Lead | mg/L | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.000475 J | <0.00047 | <0.00047 | <0.00047 | <0.00047 |
| Magnesium | mg/L | NS | **2.15** | **2.26** | **2.42** | **1.94** | **3.83** | **2.77** | **2.97** | **3.71** | **3.49** | **5.26** | **6.46** | **4.79** |
| Manganese[(a)] | mg/L | 0.05 | **0.00808** | 0.00488 J | **0.0121** | **0.0117** | **0.0237** | **0.0135** | **0.0150** | **0.0330** | **0.0350** | **0.0410** | **0.0452** | **0.0411** |
| Mercury | mg/L | 0.002 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.073 | 0.000624 J | 0.000606 J | 0.000939 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0013 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| Potassium | mg/L | NS | **4.29** | **4.12** | **4.03** | **4.19** | **2.90** | **4.78** | **4.27** | **4.44** | **4.20** | **3.84** | **2.97** | **3.45** |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | NS | **72.7** | **73.1** | **78.6** | **74.9** | **68.8** | **82.1** | **76.3** | **84.9** | **78.6** | **88.6** | **82.7** | **77.4** |
| Strontium | mg/L | NS | **0.224** | **0.245** | **0.236** | **0.220** | **0.293** | **0.244** | **0.251** | **0.277** | **0.279** | **0.339** | **0.355** | **0.320** |
| Vanadium | mg/L | 0.026 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg/L | 1.1 | 0.00301 J | 0.00203 J | 0.00283 J | 0.00315 J | **0.00590** | **0.00913** | **0.00706** | **0.0448** | **0.0965** | 0.00559 J | 0.00423 J | 0.00672 J |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | **147** | **151** | **162** | **152** | **181** | **165** | **174** | **176** | **182** | **200** | **213** | **214** |
| Bromide | mg/L | NS | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | NS | **14.8** | **15.8** | <3 | **14.6** | **13.2** | **17.2** | **18.8** | **14.2** | **9.40** | **9.20** | **12.40** | **9.40** |
| Chloride[(a)] | mg/L | 250 | **26.5** | **25.6** | **23.5** | **23.0** | **25.1** | **22.9** | **22.3** | **22.2** | **22.1** | **27.8** | **22.4** | **21.9** |
| Sulfate[(a)] | mg/L | 250 | **7.63** | **3.42** | **2.08** | <0.2 | **2.48** | <0.2 | <0.2 | 0.266 J | <0.2 | **1.03** | **1.32** | **0.751** |
| Total Dissolved Solids (TDS)[(a)] | mg/L | 500 | **200** | **216** | **190** | **270** | **300** | **240** | **222** | **238** | **420** | **302** | **278** | **250** |
| Total Organic Carbon (TOC) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[(a)] | SI | 6.5 - 8.5 | 8.94 H | 8.88 H | 8.66 H | 8.81 H | 8.49 H | 8.80 H | 8.84 H | **8.71** | 8.52 H | 8.48 H | 8.53 H | 8.45 H |
| pH (field) | SI | 6.5 - 8.5 | **8.92** | **7.37** | **8.74** | **9.25** | **8.51** | **8.61** | **8.18** | **8.19** | **8.29** | **8.30** | **8.07** | **8.05** |
| **Sulfides** | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | <0.5 | <0.5 | <0.5 | <0.5 | 0.552 J[(c)] | **5.70** | **3.91** | <0.5 | <0.5 | 0.722 J | <0.5 | <0.5 |
| $H_2S$ (field) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | **0.0** | **0.1** | **0.0** | **0.0** | **0.0** |
| Sulfide | mg/L | NS | <1.2 | <0.92 | <0.92 | <0.92 | <0.92(c) | **5.36** | 3.68 J | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | |
| Benzene | mg/L | 0.005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | 0.7 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | 1 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | 0.00049 J | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | 10 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0002 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | 0.0251 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 7.3 | <0.025 | 0.0454 J | **0.114** | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | |
| δD | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| Constituent | Units | Sample ID / Sample Location / Sample Interval (ft) / Sample Date / Sampler | RECAP GWSS | MW-2 / MW-2-500 / 502-512' / 1/29/25 / ERM | 2/19/25 / ERM | 3/19/25 / ERM | 4/23/25 / ERM | 5/15/25 / ERM | 6/18/25 / ERM | 7/24/25 / ERM | 8/21/25 / ERM | 9/16/25 / ERM | 10/23/25 / ERM | 11/19/25 / ERM | 12/18/25 / ERM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Monitoring Wells | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | | 0.01 | 0.000708 J | 0.00102 J | 0.00103 J | 0.00115 J | 0.000878 J | 0.000929 J | 0.00123 J | 0.00117 J | 0.00121 J | 0.00103 J | 0.00125 J | 0.000862 J |
| Barium | mg/L | | 2 | **0.0743** | **0.106** | **0.104** | **0.146** | **0.0866** | **0.0971** | **0.128** | **0.113** | **0.110** | **0.112** | **0.124** | **0.077** |
| Cadmium | mg/L | | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | | NS | **4.02** | **7.86** | **7.23** | **13.0** | **5.53** | **6.50** | **12.5** | **8.90** | **8.10** | **8.60** | **11.1** | **5.00** |
| Chromium | mg/L | | 0.1 | 0.000619 J | 0.000746 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.00173 | <0.00173 | <0.00173 | <0.00173 | <0.00173 |
| Iron[a] | mg/L | | 0.3 | **0.619** | **6.53** | **2.96** | **1.36** | **0.941** | **1.63** | **0.563** | **1.01** | **4.30** | **2.61** | **3.25** | **1.00** |
| Lead | mg/L | | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | <0.00047 | <0.00047 | 0.000970 J |
| Magnesium | mg/L | | NS | **0.647** | **1.35** | **1.21** | **1.95** | **0.814** | **1.24** | **1.95** | **1.37** | **1.56** | **1.31** | **1.85** | **0.719** |
| Manganese[a] | mg/L | | 0.05 | **0.00966** | **0.0696** | **0.0527** | **0.0391** | **0.0231** | **0.0334** | **0.113** | **0.0483** | **0.103** | **0.0670** | **0.1010** | **0.0278** |
| Mercury | mg/L | | 0.002 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | | 0.073 | <0.0006 | **0.00202** | 0.00113 J | 0.000809 J | 0.000670 J | 0.000857 J | 0.000616 J | <0.0013 | 0.00157 J | 0.00131 J | 0.00139 J | <0.0013 |
| Potassium | mg/L | | NS | **54.1** | **45.2** | **50.3** | **31.7** | **55.6** | **56.9** | **42.3** | **61.9** | **56.1** | **50.9** | **50.7** | **64.0** |
| Selenium | mg/L | | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | | NS | **69.9** | **68.4** | **72.2** | **59.4** | **69.5** | **76.3** | **65.0** | **77.3** | **71.1** | **65.7** | **68.7** | **68.9** |
| Strontium | mg/L | | NS | **0.388** | **0.446** | **0.452** | **0.413** | **0.511** | **0.498** | **0.470** | **0.598** | **0.547** | **0.597** | **0.541** | **0.621** |
| Vanadium | mg/L | | 0.026 | <0.0006 | 0.00137 J | 0.000679 J | <0.0006 | <0.0006 | <0.0006 | 0.000716 J | <0.0006 | 0.00160 J | 0.000618 J | 0.000776 J | 0.000741 J |
| Zinc | mg/L | | 1.1 | <0.002 | **0.00646** | **0.00533** | 0.00267 J | 0.00249 J | 0.00387 J | 0.00307 J | 0.00745 J | **0.0131** | 0.00636 J | 0.00444 J | 0.00523 J |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | | NS | **17.6** | **18.0** | <3 | **117** | **76.5** | 6.60 J | **38.9** | <1.2 | **5.50** | **17.0** | **42.3** | <1.2 |
| Bromide | mg/L | | NS | <0.03 | <0.03 | <0.03 | <0.03 | 0.0819 J | <0.03 | <0.03 | <0.03 | 0.0725 J | 0.0921 J | 0.0670 J | 0.0826 J |
| Carbonate Alkalinity | mg/L | | NS | **177** | **171** | **73.0** | **58.4** | **159** | **186** | **149** | **180** | **189** | **179** | **156** | **217** |
| Chloride[a] | mg/L | | 250 | **38.8** | **38.7** | **37.3** | **36.7** | **40.1** | **36.0** | **40.3** | **38.0** | **36.8** | **38.3** | **38.8** | **36.4** |
| Sulfate[a] | mg/L | | 250 | **3.21** | **2.62** | **2.07** | **1.56** | **2.57** | **1.69** | **1.60** | **1.47** | **1.49** | **1.31** | **1.32** | **1.78** |
| Total Dissolved Solids (TDS)[a] | mg/L | | 500 | **334** | **316** | **268** | **334** | **324** | **360** | **296** | **304** | **260** | **808** | **322** | **316** |
| Total Organic Carbon (TOC) | mg/L | | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[a] | SI | | 6.5 - 8.5 | 11.0 H | 10.5 H | 10.5 H | 9.56 H | 10.9 H | 10.6 H | 10.3 H | 10.8 H | 10.6 H | 10.6 H | 10.3 H | 10.7 H |
| pH (field) | SI | | 6.5 - 8.5 | **10.75** | **10.63** | **10.51** | **10.26** | **10.63** | **10.44** | **9.72** | **10.37** | **10.47** | **10.59** | **10.34** | **10.59** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | | NS | <0.5 | 0.552 J | <0.5 | <0.5 | 3.74[c] | **9.94** | **21.8** | <0.5 | <0.5 | **1.78** | <0.5 | <0.5 |
| $H_2S$ (field) | mg/L | | NS | NA | NA | NA | NA | NA | NA | NA | **0.2** | **0.2** | **0.0** | **0.1** | **0.0** |
| Sulfide | mg/L | | NS | <1.2 | <0.92 | <0.92 | <0.92 | 3.52 J[c] | **9.36** | **20.5** | <0.92 | <0.92 | 1.68 J | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | | 0.005 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | | 0.7 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | | 1 | 0.00064 J | 0.00069 J | 0.00068 J | 0.00044 J | <0.00033 | <0.00033 | 0.00044 J | 0.00053 J | 0.00050 J | 0.00051 J | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | | 10 | 0.00095 J | 0.0013 J | 0.0011 J | <0.00061 | <0.00061 | 0.0010 J | 0.00064 J | 0.00077 J | 0.00073 J | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | | 10 | **0.0010** | **0.0013** | **0.0012** | 0.00080 J | <0.00031 | 0.00098 J | 0.00072 J | 0.00079 J | 0.00076 J | 0.0018 J | <0.00031 | 0.00064 J |
| Xylenes, Total | mg/L | | 10 | 0.0020 J | 0.0025 J | 0.0023 J | <0.00092 | <0.00092 | 0.0020 J | 0.0014 J | 0.0016 J | 0.0015 J | 0.0018 J | <0.00092 | <0.00093 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | | 3.2 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | | 7.3 | <0.025 | **0.109** | 0.0281 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 0.0347 J | <0.025 |
| Aromatics >C12-C16 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 0.0252 J | <0.025 |
| Aromatics >C16-C21 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | | |
| δD | ‰ | | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[a] - EPA Secondary MCL (No RECAP standard)
[b] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[c] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| Constituent | Units | Sample ID / Sample Location / Sample Interval (ft) / Sample Date / Sampler | RECAP GWSS | MW-2 / MW-2-700 / 680-690' / 1/28/25 / ERM | 2/19/25 / ERM | 3/19/25 / ERM | 4/23/25 / ERM | 5/15/25 / ERM | 6/18/25 / ERM | 7/22/25 / ERM | 8/21/25 / ERM | 9/17/25 / ERM | 10/22/25 / ERM | 11/19/25 / ERM | 12/18/25 / ERM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Monitoring Wells | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | | 0.01 | 0.000774 J | 0.00104 J | 0.00101 J | 0.00136 J | 0.000871 J | 0.000953 J | 0.000801 J | 0.00107 J | 0.000757 J | 0.000969 J | 0.00103 J | 0.000794 J |
| Barium | mg/L | | 2 | **0.01330** | **0.0233** | **0.0158** | **0.0225** | **0.0102** | **0.0138** | **0.00692** | **0.0134** | **0.00820** | **0.0184** | **0.0313** | **0.0296** |
| Cadmium | mg/L | | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | | NS | **1.38** | **3.10** | **1.71** | **2.08** | **1.01** | **1.40** | **0.854** | **1.26** | **0.801** | **1.76** | **5.62** | **3.55** |
| Chromium | mg/L | | 0.1 | 0.000705 J | 0.000799 J | <0.0004 | 0.000549 J | <0.0004 | <0.0004 | <0.0004 | <0.00173 | <0.00173 | <0.00173 | <0.00173 | <0.00173 |
| Iron[(a)] | mg/L | | 0.3 | **0.324** | **0.382** | **0.424** | **0.374** | **0.346** | **0.528** | **0.287** | **0.341** | 0.200 J | **0.496** | **1.610** | **0.515** |
| Lead | mg/L | | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | <0.00047 | <0.00047 | <0.00047 |
| Magnesium | mg/L | | NS | **0.0527** | 0.104 J | 0.0649 J | 0.0928 J | 0.0472 J | 0.0602 J | 0.0271 J | 0.0692 J | <0.0408 | 0.0872 J | **0.237** | **0.258** |
| Manganese[(a)] | mg/L | | 0.05 | 0.00162 J | 0.00284 J | 0.00240 J | 0.00195 J | 0.00233 J | 0.00417 J | 0.00197 J | 0.00327 J | <0.0019 | **0.0273** | **0.0132** | 0.00456 J |
| Mercury | mg/L | | 0.002 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | | 0.073 | 0.00131 J | 0.00132 J | 0.00170 J | 0.00148 J | 0.00147 J | 0.00191 J | 0.00121 J | <0.0013 | 0.00146 J | 0.00132 J | 0.00281 J | <0.0013 |
| Potassium | mg/L | | NS | **4.82** | **3.98** | **4.56** | **4.30** | **4.50** | **4.68** | **4.94** | **4.43** | **4.49** | **4.30** | **4.00** | **3.39** |
| Selenium | mg/L | | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | | NS | **173** | **221** | **221** | **174** | **168** | **199** | **176** | **196** | **170** | **214** | **224** | **200** |
| Strontium | mg/L | | NS | **0.0296** | **0.0424** | **0.0304** | **0.0362** | **0.0256** | **0.0275** | **0.0207** | **0.0273** | **0.0219** | **0.0344** | **0.0482** | **0.0462** |
| Vanadium | mg/L | | 0.026 | <0.0006 | 0.00114 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.000729 J | 0.00229 J | 0.000859 J |
| Zinc | mg/L | | 1.1 | <0.002 | <0.002 | 0.00231 J | <0.002 | 0.00295 J | **0.00759** | **0.00425** | 0.00653 J | **0.0171** | 0.00587 J | 0.00388 J | <0.00300 |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | | NS | **67.1** | **63.5** | <3 | **127** | **69.4** | **67.9** | **54.3** | **69.0** | **65.0** | **73.6** | **100** | **118** |
| Bromide | mg/L | | NS | **0.141** | **0.192** | **0.158** | **0.206** | **0.168** | **0.184** | **0.166** | **0.198** | **0.143** | **0.178** | **0.182** | **0.216** |
| Carbonate Alkalinity | mg/L | | NS | **166** | **166** | **122** | **86.4** | **160** | **151** | **162** | **133** | **143** | **123** | **91.4** | **88.8** |
| Chloride[(a)] | mg/L | | 250 | **120** | **159** | **130** | **149** | **127** | **125** | **115** | **140** | **130** | **168** | **183** | **206** |
| Sulfate[(a)] | mg/L | | 250 | **1.95** | **0.976** | 0.423 J | 0.398 J | **0.562** | 0.215 J | <0.2 | <0.2 | **0.608** | <0.2 | <0.2 | 0.274 J |
| Total Dissolved Solids (TDS)[(a)] | mg/L | | 500 | **490** | **524** | **426** | **518** | **454** | **360** | **436** | **484** | **658** | **498** | **580** | **512** |
| Total Organic Carbon (TOC) | mg/L | | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[(a)] | SI | | 6.5 - 8.5 | 10.4 H | 8.95 H | 10.2 H | 9.80 H | 10.2 H | 10.2 H | 10.4 H | 10.2 H | 10.2 H | 10.1 H | 9.86 H | 9.67 H |
| pH (field) | SI | | 6.5 - 8.5 | **10.23** | **6.86** | **10.26** | **10.41** | **10.15** | **10.04** | **9.79** | **9.66** | **10.03** | **9.80** | **9.80** | **9.40** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | | NS | **3.40** | <0.5 | <0.5 | <0.5 | 1.62[(c)] | **9.94** | **8.16** | **1.06** | <0.5 | 0.722 J | <0.5 | **2.12** |
| $H_2S$ (field) | mg/L | | NS | NA | NA | NA | NA | NA | NA | NA | **0.3** | **0.1** | **0.2** | **0.1** | **0.1** |
| Sulfide | mg/L | | NS | **3.20** | <0.92 | <0.92 | <0.92 | 1.52 J[(c)] | **9.36** | **7.68** | 1.00 J | <0.92 | <0.92 | <0.92 | 2.00 J |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | | 0.005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | | 0.7 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | | 1 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | | 10 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0002 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | 0.0015 J | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | 0.0015 J | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | | 3.2 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | | 7.3 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | | |
| δD | ‰ | | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| Constituent | Units | | Sample ID | MW-3 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Location | MW-3-200 | | | | | | | | | | |
| | | | Sample Interval (ft) | 228-238' | | | | | | | | | | |
| | | | Sample Date | 1/27/25 | 2/17/25 | 3/18/25 | 4/22/25 | 5/14/25 | 6/17/25 | 7/23/25 | 8/19/25 | 9/25/25 | 10/21/25 | 11/18/25 | 12/16/25 |
| | | | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| | | | | Monitoring Wells | | | | | | | | | | | |
| **Total Metals** | | **RECAP GWSS** | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | | **0.00234** | **0.00286** | **0.00217** | **0.00258** | **0.00212** | 0.00162 J | 0.00183 J | **0.00328** | **0.00207** | **0.00210** | 0.00192 J | 0.00146 J |
| Barium | mg/L | 2 | | **0.141** | **0.141** | **0.141** | **0.152** | **0.0574** | **0.154** | **0.144** | **0.222** | **0.206** | **0.234** | **0.206** | **0.193** |
| Cadmium | mg/L | 0.005 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | NS | | **14.6** | **11.2** | **12.2** | **12.0** | **4.64** | **13.3** | **11.2** | **19.4** | **16.7** | **19.5** | **16.3** | **15.5** |
| Chromium | mg/L | 0.1 | | 0.000776 J | 0.00238 J | <0.0004 | 0.000420 J | <0.0004 | <0.0004 | <0.0004 | 0.00228 J | <0.00173 | <0.00173 | <0.00173 | <0.00173 |
| Iron[(a)] | mg/L | 0.3 | | **0.588** | **0.333** | **0.765** | **0.497** | **1.51** | **0.667** | **1.17** | **18.6** | **1.33** | **2.37** | **0.785** | **0.391** |
| Lead | mg/L | 0.015 | | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.000681 J | <0.00047 | <0.00047 | <0.00047 | <0.00048 |
| Magnesium | mg/L | NS | | **2.34** | **1.83** | **2.13** | **1.78** | **0.583** | **2.76** | **2.08** | **2.54** | **3.47** | **3.98** | **3.68** | **3.56** |
| Manganese[(a)] | mg/L | 0.05 | | **0.00860** | **0.00553** | **0.0123** | **0.00922** | **0.0117** | **0.0130** | **0.0136** | **0.0981** | **0.0236** | **0.0284** | **0.0209** | **0.0172** |
| Mercury | mg/L | 0.002 | | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.073 | | <0.0006 | <0.0006 | 0.00191 J | <0.0006 | 0.00103 J | 0.000666 J | 0.00152 J | **0.00625** | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| Potassium | mg/L | NS | | **30.4** | **36.0** | **23.8** | **33.5** | **91.2** | **35.8** | **33.0** | **62.0** | **19.1** | **28.6** | **28.4** | **25.1** |
| Selenium | mg/L | 0.05 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | 0.18 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | NS | | **110** | **106** | **96.5** | **111** | **120** | **115** | **104** | **121** | **101** | **127** | **114** | **110** |
| Strontium | mg/L | NS | | **0.255** | **0.248** | **0.222** | **0.224** | **0.242** | **0.245** | **0.227** | **0.402** | **0.275** | **0.315** | **0.279** | **0.261** |
| Vanadium | mg/L | 0.026 | | <0.0006 | 0.000763 J | <0.0006 | <0.0006 | 0.000705 J | **0.0006** | <0.0006 | **0.00846** | 0.000793 J | 0.00112 J | <0.0006 | <0.0006 |
| Zinc | mg/L | 1.1 | | 0.00339 J | <0.002 | 0.00309 J | **0.0102** | **0.00434** | **0.0228** | 0.00363 J | **0.0121** | 0.00516 J | **0.0205** | **0.0140** | 0.00510 J |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | | **276** | **254** | **312** | **276** | **212** | **274** | **280** | **272** | **302** | **298** | **291** | **301** |
| Bromide | mg/L | NS | | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | NS | | **52.8** | **67.6** | **32.4** | **36.6** | **181** | **40.0** | **28.2** | **74.6** | **12.0** | **12.0** | **16.6** | **18.0** |
| Chloride[(a)] | mg/L | 250 | | **24.3** | **24.0** | **23.3** | **22.5** | **25.5** | **22.5** | **21.8** | **22.8** | **22.5** | **23.4** | **22.5** | **22.9** |
| Sulfate[(a)] | mg/L | 250 | | **3.45** | **3.96** | **1.57** | **1.79** | **8.67** | **1.19** | 0.458 J | **3.52** | <0.2 | **0.52** | 0.231 J | 0.270 J |
| Total Dissolved Solids (TDS)[(a)] | mg/L | 500 | | **338** | **186** | **392** | **376** | **624** | **404** | **410** | **384** | **412** | **436** | **394** | **406** |
| Total Organic Carbon (TOC) | mg/L | NS | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[(a)] | SI | 6.5 - 8.5 | | 9.09 H | 8.47 H | 8.44 H | 8.98 H | 9.99 H | 8.97 H | 8.81 H | 9.34 H | 8.43 H | 8.46 H | 8.57 H | 8.56 H |
| pH (field) | SI | 6.5 - 8.5 | | **9.17** | **9.28** | **8.79** | **9.09** | **9.92** | **9.03** | **8.4** | **8.99** | **8.35** | **8.32** | **8.42** | **8.05** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | | <0.5 | **1.06** | <0.5 | <0.5 | 9.78[(c)] | **14.2** | **6.04** | **2.12** | **1.78** | <0.5 | **1.44** | **1.06** |
| $H_2S$ (field) | mg/L | NS | | NA | NA | NA | NA | NA | NA | NA | **0.2** | NA | **0.0** | **0.0** | **0.0** |
| Sulfide | mg/L | NS | | <1.2 | 1.00 J | <0.92 | <0.92 | 9.20[(c)] | **13.4** | **5.68** | 2.00 J | 1.68 J | <0.92 | 1.36 J | 1.00 J |
| **Volatile Organic Compounds** | | | | | | | | | | | 2.00 J | | | | |
| Benzene | mg/L | 0.005 | | **0.0012** | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | 0.00032 J | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | 0.7 | | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | 1 | | 0.00061 J | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | 10 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | 10 | | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | 10 | | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | **0.0121** | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | 0.15 | | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | 0.15 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | 0.15 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 7.3 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | 0.15 | | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | 0.15 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.15 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | 0.15 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | 0.15 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | | |
| δD | ‰ | NS | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | NS | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | NS | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | | Sample ID | MW-3 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location | MW-3-500 | | | | | | | | | | | |
| | | Sample Interval (ft) | 464-474' | | | | | | | | | | | |
| | | Sample Date | 1/28/25 | 2/17/25 | 3/18/25 | 4/21/25 | 5/14/25 | 6/17/25 | 7/23/25 | 7/24/25 | 8/19/25 | 9/18/25 | 10/20/25 | 11/18/25 | 12/17/25 |
| | | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | | **Monitoring Wells** | | | | | | | | | | | | |
| **Total Metals** | | **RECAP GWSS** | POST-PURGE | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | <0.0004 | <0.0004 | <0.0004 | 0.000575 J | <0.0004 | <0.0004 | <0.0004 | 0.000585 J | <0.00051 | <0.00051 | <0.00051 | <0.00051 | <0.00051 |
| Barium | mg/L | 2 | **0.141** | **0.151** | **0.170** | **0.165** | **0.158** | **0.160** | **0.162** | **0.153** | **0.143** | **0.126** | **0.149** | **0.128** | **0.117** |
| Cadmium | mg/L | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | NS | **119** | **103** | **178** | **113** | **87.6** | **83.1** | **93.1** | **262** | **277** | **163** | **353** | **158** | **136** |
| Chromium | mg/L | 0.1 | 0.00158 J | 0.00361 J | <0.0004 | 0.00182 J | <0.0004 | 0.00231 J | 0.00375 J | 0.00137 J | <0.00173 | 0.00375 J | <0.00173 | <0.00173 | <0.00173 |
| Iron[(a)] | mg/L | 0.3 | **0.569** | **0.613** | **0.814** | **8.79** | **2.93** | **1.04** | **1.69** | **2.78** | **3.15** | **0.695** | **15.5** | **1.74** | **0.970** |
| Lead | mg/L | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | <0.00047 | <0.00047 | <0.00047 |
| Magnesium | mg/L | NS | **17.6** | **14.9** | **23.3** | **14.7** | **13.0** | **12.0** | **11.7** | **38.6** | **36.2** | **30.9** | **37.9** | **26.8** | **24.6** |
| Manganese[(a)] | mg/L | 0.05 | **0.0107** | **0.0111** | **0.282** | **0.0474** | **0.0156** | **0.0078** | **0.0164** | **0.208** | **0.405** | **0.0159** | **0.785** | **0.0146** | **0.0112** |
| Mercury | mg/L | 0.002 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.073 | <0.0006 | 0.000809 J | 0.00179 J | 0.00156 J | 0.000996 J | <0.0006 | <0.0006 | <0.0006 | <0.0013 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| Potassium | mg/L | NS | **32.0** | **35.7** | **28.0** | **36.2** | **39.9** | **45.8** | **55.3** | **17.1** | **17.1** | **36.3** | **6.97** | **50.4** | **66.3** |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | NS | **711** | **760** | **766** | **729** | **679** | **718** | **715** | **1,110** | **1,010** | **969** | **1,080** | **926** | **1,010** |
| Strontium | mg/L | NS | **4.56** | **4.88** | **5.41** | **4.33** | **4.64** | **4.42** | **4.87** | **7.69** | **6.70** | **6.41** | **7.52** | **6.21** | **6.31** |
| Vanadium | mg/L | 0.026 | <0.0006 | 0.00144 J | <0.0006 | 0.000823 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg/L | 1.1 | 0.00304 J | 0.00276 J | 0.00339 J | **0.0163** | **0.00804** | **0.00729** | **0.00843** | **0.0123** | 0.00467 J | **0.0124** | 0.00583 J | <0.003 | 0.00359 J |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | **9.90** | 3.70 J | **101** | **14.9** | <3 | <3 | <1.2 | **63.6** | **127** | 2.10 J | **260** | **9.50** | **8.30** |
| Bromide | mg/L | NS | <0.06 | <0.06 | <0.03 | **0.450** | **0.715** | **0.288** | **0.451** | **0.205** | <0.06 | **1.35** | **1.14** | **1.10** | **1.09** |
| Carbonate Alkalinity | mg/L | NS | **6.60** | **10.0** | <3 | <3 | **12.8** | **12.2** | **14.8** | <1.2 | <1.2 | **9.60** | <1.2 | **7.40** | **6.60** |
| Chloride[(a)] | mg/L | 250 | **1,460** | **1,260** | **1,450** | **1,160** | **1,290** | **1,160** | **1,200** | **1,760** | **1,700** | **1,740** | **1,780** | **1,730** | **1,650** |
| Sulfate[(a)] | mg/L | 250 | **415** | **391** | **412** | **257** | **271** | **230** | **260** | **597** | **633** | **428** | **598** | **400** | **359** |
| Total Dissolved Solids (TDS)[(a)] | mg/L | 500 | **2,440** | **2,500** | **3,080** | **2,540** | **2,860** | **2,540** | **2,320** | **2,620** | **3,560** | **3,300** | **3,520** | **3,730** | **3,990** |
| Total Organic Carbon (TOC) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pH[(a)] | SI | 6.5 - 8.5 | 9.58 H | 9.76 H | 7.87 H | 7.93 H | 9.88 H | 10.0 H | 10.0 H | 8.15 H | 8.00 H | 9.42 H | 7.97 H | 9.10 H | 9.02 H |
| pH (field) | SI | 6.5 - 8.5 | **9.69** | **9.63** | **6.89** | **10.00** | **9.72** | **9.65** | **9.96** | **7.15** | **6.92** | **9.63** | **6.74** | **9.03** | **9.22** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | <0.5 | <0.5 | <0.5 | <0.5 | 3.40[(c)] | **13.1** | **8.16** | <0.5 | **1.06** | <0.5 | <0.5 | <0.5 | **1.06** |
| $H_2S$ (field) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | 5.0+ | NA | **5.0** | **3.0** | **1.0** |
| Sulfide | mg/L | NS | <1.2 | <0.92 | <0.92 | <0.92 | 3.20 J[(c)] | **12.4** | **7.68** | <0.92 | 1.00 J | <0.92 | <0.92 | <0.92 | 1.00 J |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | 0.005 | 0.00078 J | 0.00081 J | **0.0017** | **0.0011** | 0.00070 J | <0.00028 | 0.00089 J | **0.0022** | **0.0013** | **0.0018** | 0.00057 J | 0.00099 J | **0.0014** |
| Ethylbenzene | mg/L | 0.7 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | 1 | **0.0038** | **0.0051** | **0.0055** | **0.0041** | **0.0034** | **0.0044** | **0.0039** | 0.0018 J | 0.0020 J | **0.0020** | 0.0015 J | 0.0017 J | 0.0019 J |
| m,p-Xylene | mg/L | 10 | <0.0005 | 0.00055 J | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | 0.00033 J | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | 10 | <0.0003 | 0.00055 J | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | 0.0015 J | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | **0.533** | **0.582** | **0.680** | **0.494** | **0.266** | **0.268** | **1.18** | **1.13** | **1.38** | **1.67** | **0.600** | **0.270** | **0.275** |
| Aliphatics >C8-C10 | mg/L | 0.15 | 0.000684 J | 0.000910 J | 0.000791 J | 0.00133 J | <0.002 | **0.0285** | **0.0657** | **0.161** | <0.01 | <0.01 | <0.008 | <0.004 | <0.002 |
| Aliphatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 7.3 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | 0.15 | 0.00500 J | 0.00477 J | 0.00474 J | 0.00455 J | 0.0613 J | <0.0006 | <0.0006 | <0.015 | <0.0006 | <0.015 | <0.012 | <0.006 | <0.006 |
| Aromatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Stable Isotopes** | | | | | | | | | | | | | | | |
| δD | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| δ18O | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ (DIC) | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
**Groundwater Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Sample ID** | **MW-3** | | | | | | | | | | | **SN 37320** | | | |
| | | **Sample Location** | **MW-3-700** | | | | | | | | | | | **PPG-4** | **PPG-4** | **PPG-4** | |
| | | **Sample Interval (ft)** | 680-690' | | | | | | | | | | | 2445' | 2615' | 2980' | |
| | | **Sample Date** | 1/28/25 | 2/18/25 | 3/19/25 | 4/21/25 | 5/14/25 | 6/17/25 | 7/24/25 | 8/20/25 | 9/17/25 | 10/21/25 | 11/18/25 | 12/17/25 | 8/28/25 | 8/28/25 | 8/28/25 | |
| | | **Sampler** | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | |
| **Constituent** | **Units** | | **Monitoring Wells** | | | | | | | | | | | | **Brine Wells** | | | |
| **Total Metals** | | **RECAP GWSS** | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | <0.0004 | 0.000462 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 | 0.000418 J | <0.00051 | <0.00051 | **0.00051** | <0.00051 | <0.00051 | <0.0255 | <0.0255 | <0.0255 | |
| Barium | mg/L | 2 | **1.84** | **1.69** | **2.31** | **2.38** | **1.66** | **1.74** | **1.71** | **1.56** | **1.60** | **3.14** | **1.62** | **1.19** | 0.150 J | 0.144 J | 0.176 J | |
| Cadmium | mg/L | 0.005 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| Calcium | mg/L | NS | **125** | **111** | **146** | **144** | **96.5** | **106** | **112** | **92.7** | **86.5** | **232** | **81.7** | **46.6** | **746** | **795** | **1,040** | |
| Chromium | mg/L | 0.1 | 0.00191 J | **0.00509** | <0.0004 | <0.0004 | 0.00208 J | 0.00192 J | 0.00270 J | 0.00229 J | <0.00173 | 0.00189 J | <0.00173 | <0.00173 | <0.0865 | <0.0865 | <0.0865 | |
| Iron[(a)] | mg/L | 0.3 | **0.655** | **0.337** | **0.316** | <0.012 | **0.718** | **0.718** | **0.676** | **0.286** | **2.12** | **10.0** | **0.426** | **0.220** | <3.00 | <3.00 | <3.00 | |
| Lead | mg/L | 0.015 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.00047 | <0.00047 | <0.00047 | <0.00047 | <0.0235 | <0.0235 | <0.0235 | |
| Magnesium | mg/L | NS | **19.2** | **18.7** | **20.6** | **19.0** | **14.3** | **15.3** | **16.5** | **11.1** | **9.75** | **49.6** | **15.6** | **5.84** | 5.01 J | 5.03 J | 6.07 J | |
| Manganese[(a)] | mg/L | 0.05 | **0.0434** | **0.0449** | **0.0399** | **0.0347** | **0.0369** | **0.0348** | **0.0294** | **0.0213** | **0.0332** | **0.935** | **0.0240** | **0.0106** | 0.225 J | 0.231 J | **0.272** | |
| Mercury | mg/L | 0.002 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | |
| Nickel | mg/L | 0.073 | 0.00109 J | 0.00114 J | <0.0006 | <0.0006 | <0.0006 | 0.000650 J | 0.000910 J | 0.00167 J | 0.00163 J | 0.00197 J | <0.0013 | <0.0013 | **0.585** | **1.03** | **0.749** | |
| Potassium | mg/L | NS | **19.7** | **18.5** | **23.4** | **20.9** | **21.5** | **28.4** | **27.8** | **34.7** | **38.6** | **9.49** | **40.6** | **59.0** | 5.95 J | 6.16 J | 7.41 J | |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| Silver | mg/L | 0.18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| Sodium | mg/L | NS | **1,130** | **1,010** | **1,360** | **1,120** | **965** | **1,080** | **988** | **895** | **846** | **1,440** | **870** | **721** | **48,600** | **48,300** | **59,400** | |
| Strontium | mg/L | NS | **3.01** | **2.86** | **3.82** | **3.00** | **2.98** | **2.98** | **2.87** | **2.50** | **2.57** | **4.30** | **2.56** | **2.08** | **4.59** | **5.44** | **7.11** | |
| Vanadium | mg/L | 0.026 | 0.000663 J | 0.00164 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.00188 J | <0.0006 | <0.0006 | <0.03 | <0.03 | <0.03 | |
| Zinc | mg/L | 1.1 | 0.00301 J | 0.00214 J | 0.00274 J | **0.00408** | **0.0152** | **0.0111** | **0.00615** | **0.0162** | **0.0311** | **0.0748** | **0.189** | 0.00338 J | **1.83** | **1.90** | **0.527** | |
| **Anions/Water Quality Parameters** | | | | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | NS | **25.4** | **25.0** | **28.6** | **24.2** | **18.1** | **22.0** | **17.8** | **25.3** | **22.7** | **175** | **30.4** | **23.4** | **130** | **130** | **123** | |
| Bromide | mg/L | NS | **2.33** | **2.63** | **2.18** | **2.43** | **2.27** | **2.30** | **2.34** | **2.04** | **1.89** | **2.55** | **1.66** | **1.44** | <6.00 | <6.00 | <6.00 | |
| Carbonate Alkalinity | mg/L | NS | <3 | <3 | <3 | <3 | 3.80 J | 4.40 J | 4.00 J | <1.2 | 3.40 J | <1.2 | 2.40 J | 2.80 J | <1.2 | <1.2 | <1.2 | |
| Chloride[(a)] | mg/L | 250 | **2,130** | **2,330** | **2,020** | **2,070** | **1,970** | **1,750** | **1,830** | **1,570** | **1,650** | **2,910** | **1,620** | **1,340** | **182,000** | **180,000** | **187,000** | |
| Sulfate[(a)] | mg/L | 250 | <1 | <0.4 | 1.14 J | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | 0.263 J | **2.44** | <0.4 | <0.4 | **3,120** | **3,460** | **3,760** | |
| Total Dissolved Solids (TDS)[(a)] | mg/L | 500 | **3,420** | **3,860** | **3,260** | **4,040** | **6,360** | **3,440** | **4,680** | **3,260** | **2,990** | **3,660** | **3,900** | **2,670** | **297,000** | **317,000** | **273,000** | |
| Total Organic Carbon (TOC) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| pH[(a)] | SI | 6.5 - 8.5 | 8.48 H | 8.97 H | 8.50 H | 7.47 H | 8.68 H | 8.75 H | 8.73 H | 7.79 H | 8.78 H | 7.57 H | 8.36 H | 8.56 H | 6.64 H | 6.54 H | 6.41 H | |
| pH (field) | SI | 6.5 - 8.5 | **9.70** | **8.79** | **8.62** | **8.79** | **8.72** | **8.65** | **8.76** | **8.96** | **9.12** | **8.06** | **8.44** | **8.78** | NA | NA | NA | |
| **Sulfides** | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | NS | **1.28** | <0.5 | <0.5 | <0.5 | 3.74[(c)] | <0.5 | **2.68** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.5** | <0.5 | |
| $H_2S$ (field) | mg/L | NS | NA | NA | NA | NA | NA | NA | NA | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | NA | NA | NA | |
| Sulfide | mg/L | NS | 1.20 J | <0.92 | <0.92 | <0.92 | 3.52 J[(c)] | <0.92 | 2.52 J | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | | |
| Benzene | mg/L | 0.005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | <0.00028 | **0.13** | **0.14** | **0.15** | |
| Ethylbenzene | mg/L | 0.7 | <0.0003 | 0.00031 J | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | <0.00033 | 0.0020 J | **0.0030** | 0.0032 J | |
| Toluene | mg/L | 1 | 0.00083 J | 0.00077 J | 0.00096 J | 0.00094 J | 0.00073 J | 0.0010 J | 0.00097 J | 0.00091 J | <0.00033 | 0.0014 J | 0.0014 J | 0.0014 J | **0.042** | **0.068** | **0.063** | |
| m,p-Xylene | mg/L | 10 | <0.0005 | 0.00062 J | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | 0.00065 J | <0.00061 | <0.00061 | 0.0038 J | **0.0050** | 0.0053 J | |
| o-Xylene | mg/L | 10 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | <0.00031 | 0.00033 J | <0.00031 | <0.00031 | **0.0037** | **0.0044** | **0.0046** | |
| Xylenes, Total | mg/L | 10 | <0.0003 | 0.00062 J | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | <0.00092 | 0.00098 J | <0.00092 | <0.00092 | **0.0075** | **0.0094** | 0.0099 J | |
| **TPH Fractions** | | | | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | 3.2 | 0.00321 J | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | **0.0215** | **0.00906** | <0.0018 | <0.0018 | <0.0018 | **0.009** | NA | NA | NA | |
| Aliphatics >C8-C10 | mg/L | 0.15 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | **0.0116** | **0.0116** | <0.0004 | <0.0004 | <0.0004 | <0.0004 | NA | NA | NA | |
| Aliphatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | NA | NA | NA | |
| Aliphatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | NA | NA | NA | |
| Aliphatics >C16-C35 | mg/L | 7.3 | 0.0360 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | NA | NA | NA | |
| Aromatics >C8-C10 | mg/L | 0.15 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | NA | NA | NA | |
| Aromatics >C10-C12 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | **0.101** | <0.025 | NA | NA | NA | |
| Aromatics >C12-C16 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 0.0775 J | <0.025 | NA | NA | NA | |
| Aromatics >C16-C21 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | NA | NA | NA | |
| Aromatics >C21-C35 | mg/L | 0.15 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | NA | NA | NA | |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | |
| δD | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **-19.7** | **-18.1** | **-20.5** | |
| δ18O | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **-4.09** | **-3.87** | **-4.08** | |
| $\delta^{13}C$ (DIC) | ‰ | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | LDNR 1 | | | | | | | LDNR 3 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/16/24 | 1/29/25 | 2/18/25 | 3/20/25 | 4/23/25 | 7/24/25 | 10/22/25 | 12/18/24 | 1/29/25 | 2/24/25 | 3/18/25 | 4/22/25 | 7/22/25 | 10/22/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | **0.00253** | 0.00114 J | 0.00102 J | 0.00177 J | **0.00433** | **0.00415** | **0.00399** | 0.00132 J | 0.000933 J | 0.000742 J | 0.000896 J | 0.00145 J | 0.00103 J | 0.000923 J |
| Barium | mg/L | **0.182** | **0.166** | **0.133** | **0.120** | **0.287** | **0.251** | **0.937** | **0.278** | **0.147** | **0.119** | **0.0916** | **0.107** | **0.198** | **0.254** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **247** | **206** | **108** | **143** | **175** | **119** | **237** | **103.0** | **102.0** | **89.7** | **91.5** | **118** | **73.6** | **72.1** |
| Chromium | mg/L | <0.0004 | <0.0004 | 0.000588 J | <0.0004 | 0.00135 J | <0.0004 | <0.00173 | 0.000723 J | <0.0004 | <0.0004 | <0.0004 | 0.00147 J | <0.0004 | <0.00173 |
| Iron | mg/L | 0.156 J | **2.31** | **0.935** | **1.43** | **0.298** | **1.45** | **7.43** | 0.0218 J | 0.0282 J | **0.215** | 0.101 J | 0.0356 J | 0.0827 J | <0.06 |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.00156 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 |
| Magnesium | mg/L | **65.2** | **55.9** | **23.2** | **30.8** | **41.5** | **25.8** | **59.0** | **25.4** | **22.4** | **19.1** | **21.0** | **23.2** | **12.8** | **13.6** |
| Manganese | mg/L | **3.38** | **4.04** | **0.104** | **0.735** | **2.95** | **1.19** | **3.99** | **0.389** | **0.183** | **0.0888** | **0.182** | **0.309** | **0.935** | **0.427** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | **0.00430** | **0.00341** | **0.00217** | 0.00193 J | **0.00487** | 0.00184 J | 0.00305 J | 0.00182 J | 0.00163 J | 0.0116 J | **0.00206** | 0.00130 J | 0.00128 J | <0.0013 |
| Potassium | mg/L | **9.99** | **3.54** | **3.17** | **3.35** | **7.22** | **4.20** | **12.9** | **3.15** | **2.93** | **2.64** | **2.45** | **2.20** | **2.73** | **2.70** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **273** | **239** | **280** | **286** | **241** | **180** | **329** | **317** | **299** | **217** | **220** | **205** | **131** | **159** |
| Strontium | mg/L | **1.55** | **1.38** | **0.817** | **0.894** | **1.15** | **0.903** | **1.69** | **0.790** | **0.770** | **0.688** | **0.714** | **0.851** | **0.522** | **0.536** |
| Vanadium | mg/L | 0.00267 J | 0.000682 J | 0.00155 J | 0.000831 J | 0.00202 J | 0.00462 J | **0.00621** | 0.00275 J | 0.00252 J | 0.00261 J | 0.00114 J | 0.00250 J | 0.00201 J | 0.00229 J |
| Zinc | mg/L | **0.00465** | **0.0202** | **0.00953** | **2.49** | **0.00686** | **0.00481** | **0.0182** | **0.00466** | 0.00327 J | 0.00226 J | <0.002 | 0.00335 J | **0.00540** | <0.003 |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **307** | **340** | **172** | **231** | **309** | **254** | **345** | **175** | **149** | **147** | **215** | **138** | **156** | **171** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | **0.199** | <0.03 | **0.459** | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | <3 | <3 | <3 | **11.8** | <1.2 | <1.2 | <3 | <3 | <3 | <3 | 8.80 J | <1.2 | <1.2 |
| Chloride | mg/L | **712** | **599** | **442** | **448** | **422** | **374** | **705** | **543** | **441** | **380** | **420** | **409** | **206** | **288** |
| Sulfate | mg/L | **396** | **245** | **209** | **136** | **54.2** | **57.6** | **4.80** | **170** | **196** | **191** | **193** | **167** | **94.3** | **62.6** |
| Total Dissolved Solids (TDS) | mg/L | **2,000** | **1,750** | **1,430** | **1,180** | **1,440** | **1,000** | **2,100** | **1,000** | **1,120** | **1,110** | **1,010** | **1,210** | **680** | **920** |
| pH | SI | 7.23 H | 7.60 H | 7.34 H | 7.40 H | 8.37 H | 7.46 H | 7.25 H | 7.69 H | 7.83 H | 7.72 H | 7.88 H | 8.45 H | 7.51 H | 7.88 H |
| Field pH | SI | **6.74** | **7.21** | **7.18** | **7.77** | **6.37** | **6.98** | **6.48** | **7.56** | **8.05** | **7.74** | **7.88** | **7.48** | **6.56** | **7.19** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 | **3.40** | <0.5 | NA | <0.5 | **1.62** | **1.78** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **7.99** | <0.5 |
| Sulfide | mg/L | <1.2 | **3.20** | <0.92 | NA | <0.92 | 1.52 J | 1.68 J | <1.2 | <1.2 | <0.92 | <0.92 | <0.92 | **7.52** | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | **0.0021** | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | 0.00092 J | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.833 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | **0.0400** | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | **0.0372** | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.833 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.167 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | 0.0372 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 0.0271 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | **0.153** | <0.025 | 0.0754 J | <0.025 | <0.025 | <0.025 | **0.137** | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | **0.508** | <0.025 | **0.334** | 0.0599 J | <0.025 | <0.025 | **0.694** | 0.0289 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.833 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 0.0279 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | 0.0323 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 0.0421 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | **0.101** | <0.025 | 0.0605 J | <0.025 | <0.025 | 0.0346 J | 0.0829 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | **0.176** | <0.025 | **0.124** | <0.025 | 0.0688 J | 0.0315 J | **0.108** | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | LDNR 4 | | | | | | | LDNR 5 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/17/24 | 1/28/25 | 2/18/25 | 3/17/25 | 4/21/25 | 7/22/25 | 11/17/25 | 12/18/24 | 1/29/25 | 2/18/25 | 3/18/25 | 4/23/25 | 7/30/25 | 10/22/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00158 J | 0.000799 J | 0.000808 J | 0.000840 J | 0.00164 J | 0.00134 J | 0.00168 J | 0.00101 J | 0.000636 J | 0.000903 J | 0.000898 J | 0.00124 J | 0.000957 J | 0.000902 J |
| Barium | mg/L | **0.362** | **0.290** | **0.203** | **0.0860** | **0.625** | **0.393** | **0.606** | **0.251** | **0.129** | **0.15** | **0.0996** | **0.108** | **0.196** | **0.237** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **101** | **93.7** | **102** | **90.3** | **113** | **70.8** | **87.8** | **102** | **102** | **99.7** | **95.6** | **116** | **63.3** | **78.4** |
| Chromium | mg/L | 0.00105 J | 0.000720 J | 0.000523 J | <0.0004 | <0.0004 | <0.0004 | <0.00173 | 0.000678 J | <0.0004 | 0.000779 J | <0.0004 | <0.0004 | <0.0004 | 0.00304 J |
| Iron | mg/L | **0.229** | 0.0685 J | 0.0513 J | 0.0225 J | 0.0383 J | 0.0528 J | <0.06 | 0.0271 J | 0.0482 J | 0.0471 J | 0.158 J | <0.012 | 0.122 J | <0.06 |
| Lead | mg/L | 0.00105 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 |
| Magnesium | mg/L | **21.5** | **20.8** | **20.0** | **21.8** | **22.3** | **15.1** | **17.9** | **24.4** | **22.1** | **23.0** | **21.8** | **22.9** | **12.8** | **15.5** |
| Manganese | mg/L | **0.852** | **0.109** | **0.153** | **0.101** | **0.634** | **1.00** | **0.403** | **0.228** | **0.0912** | **0.171** | **0.192** | **0.164** | **2.06** | **0.368** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.00121 J | 0.00178 J | 0.00120 J | 0.000984 J | 0.00136 J | 0.000792 J | <0.0013 | 0.00169 J | 0.00136 J | 0.00130 J | **0.00213** | 0.00148 J | 0.00156 J | <0.0013 |
| Potassium | mg/L | **2.98** | **2.81** | **2.78** | **2.45** | **2.16** | **2.68** | **2.56** | **3.03** | **2.94** | **3.08** | **2.47** | **2.01** | **2.46** | **2.92** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **268** | **217** | **264** | **228** | **190** | **150** | **221** | **298** | **289** | **322** | **250** | **232** | **123** | **187** |
| Strontium | mg/L | **0.775** | **0.736** | **0.712** | **0.703** | **0.861** | **0.547** | **0.687** | **0.760** | **0.762** | **0.775** | **0.738** | **0.840** | **0.481** | **0.567** |
| Vanadium | mg/L | 0.00293 J | 0.00201 J | 0.00142 J | 0.00202 J | 0.00226 J | 0.00405 J | **0.00509** | 0.00175 J | 0.00153 J | 0.00130 J | 0.00119 J | 0.00205 J | 0.000805 J | 0.00156 J |
| Zinc | mg/L | **0.00769** | 0.00352 J | **0.0515** | **0.00588** | **0.00901** | **0.00472** | 0.00714 J | **0.0362** | **0.0105** | **0.00483** | <0.002 | <0.002 | **0.00410** | 0.00307 J |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **170** | **150** | **153** | **164** | **150** | **162** | **208** | **162** | **140** | **162** | **174** | **134** | **149** | **166** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | <3 | <3 | <3 | 6.40 J | <1.2 | <1.2 | <3 | <3 | <3 | <3 | 9.00 J | <1.2 | <1.2 |
| Chloride | mg/L | **488** | **430** | **434** | **412** | **399** | **227** | **351** | **537** | **428** | **427** | **419** | **401** | **201** | **279** |
| Sulfate | mg/L | **177** | **189** | **204** | **191** | **159** | **66.2** | **56.6** | **164** | **203** | **207** | **197** | **168** | **71.4** | **62.9** |
| Total Dissolved Solids (TDS) | mg/L | **1,070** | **944** | **1,100 H** | **884** | **1,160** | **688** | **968** | **888 H** | **1,100** | **2,380** | **1,100** | **1,150** | **728** | **1,050** |
| pH | SI | 6.27 H | 7.90 H | 7.22 H | 8.40 H | 8.34 H | 7.43 H | 7.80 H | 7.55 H | 7.92 H | 7.87 H | 7.91 H | 8.46 H | 7.76 H | 7.96 H |
| Field pH | SI | **6.99** | **7.71** | **7.63** | **8.29** | **6.79** | **6.79** | **7.54** | **7.72** | **8.15** | **7.65** | **7.99** | **9.70** | **6.46** | **7.57** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 | <0.5 | 0.638 J | <0.5 | <0.5 | **1.62** | <0.5 | <0.5 H | <0.5 | <0.5 | <0.5 | <0.5 | 0.722 J | <0.5 |
| Sulfide | mg/L | <1.2 | <1.2 | <0.92 | <0.92 | <0.92 | 1.52 J | <0.92 | <1.2 H | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.167 | **0.00592** | <0.0018 | <0.0018 | **0.0139** | <0.0018 | <0.0018 | <0.0333 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.167 | <0.0004 | <0.0004 | <0.0004 | 0.000773 J | <0.0004 | <0.0004 | <0.0333 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | 0.0325 J | 0.0558 J | <0.025 | <0.025 | <0.025 | 0.0568 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0333 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 0.0269 J | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | LDNR 6 | | | | | | | LDNR 7 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/18/24 | 1/29/25 | 2/24/25 | 3/18/25 | 4/22/25 | 7/22/25 | 10/21/25 | 12/18/24 | 1/29/25 | 2/24/25 | 3/18/25 | 4/22/25 | 7/23/25 | 10/21/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00106 J | 0.000757 J | 0.000746 J | 0.000898 J | 0.00146 J | 0.00103 J | 0.000900 J | 0.00105 J | 0.000680 J | 0.000657 J | 0.000879 J | 0.00126 J | 0.000970 J | 0.000845 J |
| Barium | mg/L | **0.237** | **0.134** | **0.13** | **0.0882** | **0.107** | **0.196** | **0.232** | **0.242** | **0.128** | **0.126** | **0.0912** | **0.107** | **0.149** | **0.226** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **96.2** | **103** | **98.1** | **89.6** | **98.3** | **64.5** | **73.3** | **98.7** | **97.1** | **98.0** | **92.1** | **111** | **59.0** | **73.9** |
| Chromium | mg/L | 0.000801 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.00173 | 0.000682 J | 0.00162 J | <0.0004 | <0.0004 | 0.000884 J | <0.0004 | <0.00173 |
| Iron | mg/L | 0.0293 J | 0.0483 J | 0.108 J | **0.201** | <0.012 | 0.0713 J | <0.06 | 0.0248 J | 0.0543 J | 0.0915 J | 0.198 J | <0.012 | 0.0231 J | <0.06 |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 |
| Magnesium | mg/L | **22.2** | **22.8** | **20.8** | **20.6** | **17.2** | **11.6** | **14.0** | **23.7** | **21.2** | **20.8** | **21.3** | **22.3** | **12.5** | **14.2** |
| Manganese | mg/L | **0.308** | **0.163** | **0.0844** | **0.170** | **0.253** | **0.874** | **0.326** | **0.266** | **0.159** | **0.0683** | **0.131** | **0.114** | **1.03** | **0.273** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.00132 J | 0.00138 J | 0.00101 J | 0.00155 J | 0.000903 J | 0.000820 J | <0.0013 | 0.00139 J | 0.00115 J | 0.00122 J | 0.00152 J | 0.000883 J | <0.0006 | <0.0013 |
| Potassium | mg/L | **2.85** | **2.99** | **2.85** | **2.41** | **2.19** | **2.23** | **2.68** | **3.00** | **2.75** | **2.91** | **2.43** | **1.96** | **2.23** | **2.74** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **294** | **321** | **219** | **240** | **222** | **119** | **169** | **304** | **268** | **230** | **255** | **233** | **136** | **170** |
| Strontium | mg/L | **0.744** | **0.800** | **0.744** | **0.692** | **0.671** | **0.471** | **0.524** | **0.769** | **0.745** | **0.765** | **0.723** | **0.836** | **0.454** | **0.533** |
| Vanadium | mg/L | 0.00182 J | 0.00144 J | 0.00233 J | 0.00141 J | 0.00222 J | 0.00304 J | 0.00240 J | 0.00200 J | 0.00148 J | 0.00124 J | 0.00156 J | 0.00160 J | <0.0006 | 0.00196 J |
| Zinc | mg/L | **0.0127** | **0.00702** | <0.002 | 0.00327 J | **0.00789** | 0.00375 J | 0.00421 J | **0.0172** | <0.002 | <0.002 | 0.00232 J | 0.00214 J | 0.00231 J | 0.00527 J |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **160** | **137** | **152** | **182** | **141** | **140** | **168** | **163** | **141** | **150** | **186** | **134** | **121** | **166** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | **5.20** | <3 | <3 | 8.80 J | <1.2 | <1.2 | <3 | **5.40** | <3 | <3 | **10.4** | <1.2 | <1.2 |
| Chloride | mg/L | **540** | **443** | **402** | **428** | **393** | **207** | **290** | **551** | **441** | **404** | **424** | **400** | **222** | **284** |
| Sulfate | mg/L | **176** | **196** | **204** | **195** | **162** | **89.1** | **62.7** | **181** | **196** | **214** | **194** | **167** | **83.2** | **63.0** |
| Total Dissolved Solids (TDS) | mg/L | **1,030** | **1,010** | **1,000** | **1,060** | **1,180** | **696** | **756** | **1,240** | **1,020** | **1,090** | **1,100** | **1,010** | **728** | **734** |
| pH | SI | 7.69 H | 8.18 H | 7.62 H | 8.02 H | 8.45 H | 7.67 H | 7.96 H | 7.91 H | 8.06 H | 7.67 H | 8.17 H | 8.50 H | 8.19 H | 8.02 H |
| Field pH | SI | **7.77** | **8.37** | **7.83** | **8.24** | **7.69** | **7.05** | **6.95** | **7.78** | **8.36** | **8.00** | **8.46** | **7.53** | **7.73** | **7.21** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **1.62** | <0.5 | **1.40** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sulfide | mg/L | <1.2 | <1.2 | <0.92 | <0.92 | <0.92 | 1.52 J | <0.92 | 1.32 J | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.167 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.167 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | <0.025 | 0.0519 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.0250 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | LDNR 8 | | | | | | | LDNR 9 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/18/24 | 1/29/25 | 2/24/25 | 3/19/25 | 4/22/25 | 7/23/25 | 10/22/25 | 12/17/24 | 1/27/25 | 2/19/25 | 3/19/25 | 4/23/25 | 7/23/25 | 10/22/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00104 J | 0.000674 J | 0.000697 J | 0.000970 J | 0.00129 J | 0.00110 J | 0.000888 J | 0.00130 J | 0.000961 J | 0.00110 J | **0.00290** | **0.00638** | **0.00490** | **0.00255** |
| Barium | mg/L | **0.257** | **0.121** | **0.128** | **0.104** | **0.112** | **0.115** | **0.239** | **0.122** | **0.0817** | **0.0708** | **0.0921** | **0.181** | **0.154** | **0.206** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **103** | **96.6** | **96.8** | **100** | **115** | **51.0** | **74.7** | **103** | **78.4** | **74.8** | **78.0** | **74.2** | **47.8** | **52.6** |
| Chromium | mg/L | 0.000617 J | 0.00314 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.00173 | 0.000589 J | 0.000765 J | 0.000747 J | <0.0004 | 0.000446 J | 0.000780 J | <0.00173 |
| Iron | mg/L | 0.0201 J | 0.0461 J | 0.0997 J | 0.0293 J | <0.012 | 0.0326 J | <0.06 | 0.143 J | **1.17** | **0.238** | **0.918** | **0.518** | **0.976** | **1.24** |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.000498 J |
| Magnesium | mg/L | **24.7** | **21.1** | **21.2** | **22.9** | **23.3** | **13.0** | **14.7** | **11.4** | **8.86** | **8.69** | **9.32** | **8.92** | **6.62** | **7.23** |
| Manganese | mg/L | **0.253** | **0.0996** | **0.0656** | **0.139** | **0.136** | **0.283** | **0.295** | **0.243** | **0.384** | **0.156** | **0.290** | **0.841** | **0.246** | **0.193** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.00129 J | **0.00230** | 0.00114 J | 0.00106 J | 0.000971 J | <0.0006 | <0.0013 | 0.00170 J | 0.00164 J | **0.00244** | **0.00207** | **0.00216** | 0.00150 J | 0.00134 J |
| Potassium | mg/L | **3.11** | **2.72** | **2.86** | **2.52** | **2.00** | **1.58** | **2.78** | **2.36** | **2.06** | **2.05** | **2.18** | **2.69** | **2.50** | **1.58** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **310** | **254** | **226** | **247** | **244** | **173** | **180** | **169** | **127** | **149** | **200** | **178** | **85.2** | **115** |
| Strontium | mg/L | **0.795** | **0.716** | **0.763** | **0.764** | **0.862** | **0.453** | **0.557** | **0.594** | **0.466** | **0.450** | **0.499** | **0.468** | **0.381** | **0.413** |
| Vanadium | mg/L | 0.00205 J | 0.00110 J | 0.00130 J | 0.00183 J | 0.00193 J | 0.000694 J | 0.00185 J | <0.0006 | 0.000959 J | 0.000738 J | 0.00162 J | 0.00465 J | **0.00576** | 0.00318 J |
| Zinc | mg/L | **0.00991** | 0.00200 J | **0.0302** | 0.00260 J | 0.00245 J | 0.00201 J | 0.00594 J | **0.00410** | 0.00332 J | 0.00230 J | **0.00621** | **0.00468** | **0.00861** | **0.0268** |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **170** | **140** | **150** | **134** | **133** | **87.2** | **167** | **148** | **172** | **203** | **223** | **262** | **163** | **184** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | 4.00 J | <3 | <3 | **10.8** | **18.2** | <1.2 | <3 | <3 | <3 | <3 | **21.2** | **12.2** | <1.2 |
| Chloride | mg/L | **539** | **405** | **344** | **421** | **412** | **302** | **287** | **197** | **160** | **201** | **205** | **254** | **99.1** | **136** |
| Sulfate | mg/L | **169** | **182** | **174** | **194** | **170** | **81.5** | **64.0** | **255** | **161** | **140** | **90.8** | **17.2** | **21.7** | **17.3** |
| Total Dissolved Solids (TDS) | mg/L | **1,050** | **956** | **960** | **884** | **1,350** | **836** | **920** | **1,180 H** | **972** | **678** | **702** | **808** | **372** | **886** |
| pH | SI | 7.82 H | 8.13 H | 7.78 H | 7.91 H | 8.54 H | 8.95 H | 7.99 H | 7.71 H | 7.96 H | 8.02 H | 7.95 H | 8.63 H | 8.57 H | 7.76 H |
| Field pH | SI | **7.78** | **8.21** | **7.83** | **8.07** | **6.33** | **8.43** | **5.72** | **7.93** | **8.16** | **8.52** | **8.07** | **7.56** | **7.48** | **7.11** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 | <0.5 | <0.5 | **1.28** | <0.5 | **12.4** | <0.5 | <0.5 H | **1.28** | <0.5 | <0.5 | <0.5 | **3.91** | <0.5 |
| Sulfide | mg/L | <1.2 | <1.2 | <0.92 | 1.20 J | <0.92 | **11.7** | <0.92 | <1.2 H | 1.20 J | <0.92 | <0.92 | <0.92 | 3.68 J | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00040 J | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.833 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.167 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.833 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.833 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | LDNR 12 | | | | | | | LDNR 13 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/18/24 | 1/29/25 | 2/19/25 | 3/18/25 | 4/22/25 | 7/23/25 | 10/21/25 | 12/18/24 | 1/28/25 | 2/19/25 | 3/18/25 | 4/23/25 | 7/22/25 | 10/21/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00104 J | 0.000633 J | 0.000904 J | 0.000963 J | 0.00138 J | 0.00122 J | 0.000888 J | 0.00102 J | 0.000643 J | 0.000839 J | 0.000847 J | 0.00157 J | 0.00126 J | 0.000890 J |
| Barium | mg/L | **0.242** | **0.132** | **0.138** | **0.0991** | **0.117** | **0.147** | **0.233** | **0.252** | **0.130** | **0.130** | **0.0842** | **0.124** | **0.231** | **0.244** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **99.7** | **102** | **112** | **97.8** | **117** | **48.5** | **75.4** | **105** | **99.0** | **110** | **82.2** | **110** | **63.4** | **75.3** |
| Chromium | mg/L | 0.000650 J | <0.0004 | 0.00165 J | 0.000442 J | <0.0004 | <0.0004 | <0.00173 | 0.000590 J | <0.0004 | 0.00175 J | <0.0004 | <0.0004 | <0.0004 | <0.00173 |
| Iron | mg/L | 0.0209 J | 0.0360 J | 0.0700 J | 0.0387 J | <0.012 | 0.0460 J | <0.06 | 0.0194 J | 0.0552 J | 0.0281 J | **0.527** | 0.0709 J | 0.0800 J | <0.06 |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 |
| Magnesium | mg/L | **24.4** | **22.3** | **23.7** | **22.1** | **23.9** | **10.9** | **14.9** | **24.8** | **21.8** | **23.0** | **19.1** | **28.2** | **13.0** | **14.9** |
| Manganese | mg/L | **0.251** | **0.115** | **0.0965** | **0.166** | **0.225** | **0.298** | **0.268** | **0.288** | **0.106** | **0.0631** | **0.0827** | **0.593** | **1.09** | **0.409** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.00137 J | 0.00120 J | 0.00131 J | 0.00115 J | 0.00124 J | <0.0006 | <0.0013 | 0.00190 J | 0.00117 J | 0.00135 J | **0.00331** | 0.00154 J | 0.000727 J | <0.0013 |
| Potassium | mg/L | **3.03** | **2.89** | **3.15** | **2.46** | **2.06** | **1.56** | **2.89** | **3.11** | **2.85** | **3.04** | **2.10** | **3.34** | **1.65** | **2.77** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **305** | **264** | **276** | **236** | **208** | **147** | **171** | **344** | **271** | **269** | **276** | **304** | **211** | **183** |
| Strontium | mg/L | **0.780** | **0.769** | **0.749** | **0.737** | **0.858** | **0.439** | **0.551** | **0.801** | **0.750** | **0.736** | **0.671** | **0.764** | **0.521** | **0.557** |
| Vanadium | mg/L | 0.00194 J | 0.00150 J | 0.00165 J | 0.00195 J | 0.00198 J | 0.00153 J | 0.00248 J | 0.00158 J | 0.00144 J | 0.00136 J | <0.0006 | 0.00139 J | 0.00184 J | 0.00255 J |
| Zinc | mg/L | 0.00254 J | <0.002 | **0.130** | **0.00731** | 0.00272 J | **0.00548** | **0.0128** | **0.00425** | **0.00480** | <0.002 | **0.00404** | **0.00447** | **0.00522** | 0.00749 J |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **167** | **138** | **156** | **173** | **131** | **81.4** | **167** | **177** | **151** | **160** | **170** | **140** | **138** | **169** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | **5.40** | <3 | <3 | **11.0** | **6.00** | <1.2 | <3 | <3 | <3 | <3 | 6.20 J | <1.2 | <1.2 |
| Chloride | mg/L | **545** | **414** | **447** | **432** | **420** | **260** | **287** | **570** | **460** | **445** | **445** | **449** | **371** | **292** |
| Sulfate | mg/L | **170** | **184** | **209** | **198** | **172** | **87.3** | **62.8** | **171** | **197** | **201** | **193** | **156** | **79.8** | **62.8** |
| Total Dissolved Solids (TDS) | mg/L | **1,040** | **1,020** | **1,070** | **900** | **1,200** | **664** | **796** | **916** | **968** | **1,180** | **1,110** | **1,250** | **848** | **776** |
| pH | SI | 7.93 H | 7.96 H | 7.55 H | 8.18 H | 8.53 H | 8.46 H | 8.02 H | 7.73 H | 8.17 H | 7.45 H | 8.19 H | 8.35 H | 7.41 H | 8.00 H |
| Field pH | SI | **7.82** | **8.32** | **7.85** | **8.51** | **8.47** | **8.55** | **6.98** | **7.97** | **8.15** | **7.85** | **8.39** | NM | **7.03** | **6.58** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 | **1.28** | <0.5 | <0.5 | <0.5 | 0.722 J | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **12.4** | <0.5 |
| Sulfide | mg/L | <1.2 | 1.20 J | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <1.2 | <1.2 | <0.92 | <0.92 | <0.9 | **11.7** | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.167 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.167 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | LDNR 14 | | | | | | | LDNR 17 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/18/24 | 1/28/25 | 2/19/25 | 3/18/25 | 4/23/25 | 7/22/25 | 10/21/25 | 12/18/24 | 1/29/25 | 2/18/25 | 3/18/25 | 4/22/25 | 7/22/25 | 10/22/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.000930 J | 0.000707 J | 0.000745 J | 0.00101 J | 0.00134 J | 0.00109 J | 0.000955 J | 0.00117 J | 0.000918 J | 0.000818 J | 0.000814 J | 0.00114 J | 0.000997 J | 0.000984 J |
| Barium | mg/L | **0.244** | **0.123** | **0.128** | **0.0987** | **0.103** | **0.183** | **0.255** | **0.267** | **0.137** | **0.156** | **0.0915** | **0.109** | **0.173** | **0.230** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **99.2** | **96.0** | **110** | **99.0** | **106** | **60.4** | **79.1** | **109** | **102** | **107** | **90.7** | **110** | **61.2** | **78.9** |
| Chromium | mg/L | 0.000526 J | <0.0004 | 0.00130 J | <0.0004 | <0.0004 | <0.0004 | <0.00173 | 0.000890 J | <0.0004 | 0.000544 J | <0.0004 | <0.0004 | 0.00158 J | <0.00173 |
| Iron | mg/L | 0.0257 J | 0.0323 J | 0.127 J | **0.242** | 0.0135 J | 0.0248 J | <0.06 | 0.0812 J | 0.102 J | 0.0285 J | 0.0773 J | <0.012 | 0.0792 J | <0.06 |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 |
| Magnesium | mg/L | **23.7** | **21.0** | **23.3** | **22.8** | **26.2** | **12.6** | **15.4** | **25.5** | **21.8** | **23.0** | **20.6** | **21.7** | **12.6** | **15.2** |
| Manganese | mg/L | **0.304** | **0.0324** | **0.0682** | **0.192** | **0.297** | **0.444** | **0.376** | **0.342** | **0.204** | **0.154** | **0.196** | **0.189** | **0.706** | **0.326** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.00129 J | 0.00122 J | 0.00132 J | 0.00183 J | 0.00148 J | 0.000618 J | <0.0013 | **0.00299** | 0.00172 J | 0.00161 J | 0.00113 J | 0.00120 J | 0.000761 J | <0.0013 |
| Potassium | mg/L | **2.95** | **2.71** | **3.06** | **2.47** | **2.96** | **1.70** | **2.90** | **3.25** | **3.01** | **3.18** | **2.36** | **1.96** | **2.40** | **2.99** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **301** | **295** | **265** | **285** | **258** | **176** | **195** | **311** | **268** | **256** | **246** | **191** | **125** | **178** |
| Strontium | mg/L | **0.784** | **0.725** | **0.730** | **0.740** | **0.683** | **0.503** | **0.596** | **0.792** | **0.758** | **0.800** | **0.682** | **0.795** | **0.448** | **0.555** |
| Vanadium | mg/L | 0.00176 J | 0.00129 J | 0.00140 J | 0.00107 J | 0.00204 J | 0.00126 J | 0.00260 J | 0.00196 J | 0.00255 J | 0.00166 J | 0.00150J | 0.00213 J | 0.00274 J | 0.00177 J |
| Zinc | mg/L | <0.002 | <0.002 | <0.002 | **0.0159** | **0.00706** | **0.00407** | 0.00626 J | 0.00373 J | **0.00618** | 0.00338 J | **0.0896** | 0.00341 J | **0.0105** | 0.00314 J |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **180** | **147** | **156** | **190** | **134** | **112** | **171** | **163** | **140** | **165** | **178** | **136** | **136** | **167** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | **5.80** | <3 | <3 | 9.20 J | <1.2 | <1.2 | <3 | <3 | <3 | <3 | 9.20 J | <1.2 | <1.2 |
| Chloride | mg/L | **559** | **452** | **436** | **433** | **416** | **300** | **291** | **527** | **437** | **424** | **418** | **405** | **200** | **284** |
| Sulfate | mg/L | **171** | **199** | **197** | **197** | **163** | **83.8** | **62.8** | **166** | **216** | **212** | **204** | **170** | **69.6** | **62.1** |
| Total Dissolved Solids (TDS) | mg/L | **1,070** | **1,010** | **1,020** | **852** | **1,200** | **744** | **778** | **1,290 H** | **904** | **1,130** | **1,050** | **1,070** | **596** | **658** |
| pH | SI | 7.66 H | 8.23 H | 7.70 H | 8.44 H | 8.47 H | 8.03 H | 7.98 H | 7.36 H | 7.62 H | 5.63 H | 7.75 H | 8.46 H | 7.61 H | 7.91 H |
| Field pH | SI | **7.76** | **8.38** | **7.83** | **8.58** | NM | **7.36** | **6.73** | **7.56** | **7.86** | **7.60** | **7.82** | **7.72** | **7.05** | **7.37** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 | <0.5 | <0.5 | **1.28** | <0.5 | <0.5 | <0.5 | <0.5 H | <0.5 | <0.5 | <0.5 | <0.5 | 0.552 J | **1.78** |
| Sulfide | mg/L | <1.2 | <1.2 | <0.92 | 1.20 J | <0.92 | <0.92 | <0.92 | <1.2 H | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | 1.68 J |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0333 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.167 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0333 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 0.0307 J | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0333 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | LDNR 18 | | | | | | | LDNR 19 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/18/24 | 1/29/25 | 2/19/25 | 3/19/25 | 4/22/25 | 7/24/25 | 10/22/25 | 12/17/24 | 1/27/25 | 2/19/25 | 3/19/25 | 4/23/25 | 7/23/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00104 J | 0.000648 J | 0.000781 J | 0.00101 J | 0.00120 J | 0.000923 J | 0.00111 J | 0.00118 J | 0.000965 J | 0.00102 J | **0.00272** | **0.00584** | **0.00517** |
| Barium | mg/L | **0.261** | **0.126** | **0.142** | **0.105** | **0.106** | **0.176** | **0.243** | **0.116** | **0.0809** | **0.0701** | **0.0917** | **0.167** | **0.167** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **103** | **97.9** | **95.1** | **105** | **112** | **65.0** | **79.5** | **97.2** | **77.8** | **72.8** | **76.6** | **70.5** | **50.5** |
| Chromium | mg/L | 0.000726 J | <0.0004 | 0.000768 J | <0.0004 | <0.0004 | <0.0004 | 0.00203 J | 0.000451 J | 0.000448 J | 0.000650 J | <0.0004 | 0.000440 J | <0.0004 |
| Iron | mg/L | 0.0654 J | 0.0450 J | 0.0441 J | 0.0322 J | <0.012 | 0.0591 J | <0.06 | 0.0613 J | **0.878** | **0.212** | **1.12** | **0.222** | **1.13** |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Magnesium | mg/L | **24.8** | **21.1** | **22.2** | **23.7** | **22.2** | **13.5** | **15.5** | **10.8** | **8.56** | **8.55** | **8.95** | **8.30** | **6.75** |
| Manganese | mg/L | **0.251** | **0.104** | **0.105** | **0.135** | **0.137** | **1.60** | **0.368** | **0.254** | **0.282** | **0.175** | **0.388** | **0.772** | **0.303** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | 0.0000300 J | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.00118 J | 0.00130 J | 0.00133 J | 0.00113 J | 0.00120 J | <0.0006 | <0.0013 | 0.00187 J | 0.00162 J | 0.00165 J | 0.00175 J | 0.00179 J | 0.00139 J |
| Potassium | mg/L | **3.08** | **2.79** | **2.99** | **2.60** | **1.98** | **2.58** | **3.01** | **2.23** | **2.03** | **1.98** | **2.09** | **2.59** | **2.56** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **296** | **276** | **282** | **262** | **198** | **129** | **188** | **164** | **124** | **150** | **205** | **172** | **86.5** |
| Strontium | mg/L | **0.774** | **0.737** | **0.729** | **0.786** | **0.813** | **0.466** | **0.578** | **0.586** | **0.465** | **0.455** | **0.488** | **0.438** | **0.381** |
| Vanadium | mg/L | 0.00196 J | 0.00136 J | 0.00128 J | 0.00177 J | 0.00210 J | 0.00101 J | 0.00176 J | <0.0006 | 0.000651 J | 0.000741 J | 0.00208 J | 0.00439 J | **0.00715** |
| Zinc | mg/L | 0.00302 J | **0.00942** | <0.002 | <0.002 | 0.00316 J | 0.00281 J | <0.003 | 0.00392 J | **0.00847** | **0.00629** | **0.0143** | **0.00832** | **0.00683** |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **163** | **133** | **154** | **138** | **133** | **149** | **166** | **154** | **194** | **196** | **252** | **265** | **164** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | <3 | <3 | <3 | **10.2** | <1.2 | <1.2 | <3 | <3 | <3 | <3 | **19.8** | **10.8** |
| Chloride | mg/L | **550** | **430** | **437** | **424** | **401** | **214** | **286** | **207** | **157** | **194** | **257** | **179** | **97.4** |
| Sulfate | mg/L | **169** | **204** | **214** | **199** | **169** | **74.0** | **63.0** | **281** | **158** | **136** | **90.8** | **17.0** | **22.4** |
| Total Dissolved Solids (TDS) | mg/L | **1,190 H** | **1,020** | **1,060** | **1,020** | **1,120** | **640** | **612** | **632** | **616** | **672** | **668** | **672** | **460** |
| pH | SI | 7.50 H | 7.74 H | 7.75 H | 7.94 H | 8.50 H | 7.54 H | 7.92 H | 7.75 H | 8.09 H | 7.46 H | 7.83 H | 8.60 H | 8.52 H |
| Field pH | SI | **7.74** | **8.17** | **7.70** | **8.04** | **7.76** | **6.90** | **7.32** | NM | **7.26** | **8.29** | **8.21** | **7.79** | **8.12** |
| **Sulfides** | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.552 J | <0.5 | **1.62** | <0.5 | <0.5 | <0.5 | <0.5 | 0.722 J |
| Sulfide | mg/L | <1.2 | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | 1.52 J | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.0333 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.0333 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.167 | <0.0004 | <0.0004 | 0.000562 J | 0.000414 J | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.0333 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| LDNR Sample No. | | LDNR 21 | | | | | | | LDNR 22 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date | | 12/18/24 | 1/29/25 | 2/19/25 | 3/19/25 | 4/22/25 | 7/24/25 | 10/22/25 | 12/18/24 | 1/29/25 | 2/19/25 | 3/19/25 | 4/22/25 | 7/24/25 | 10/22/25 |
| Sample Interval (ft) | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| Sampler | | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00114 J | 0.000606 J | 0.000822 J | 0.000910 J | 0.00128 J | 0.00106 J | 0.00105 J | 0.00110 J | 0.000687 J | 0.000968 J | 0.000822 J | 0.00145 J | 0.00114 J | 0.000990 J |
| Barium | mg/L | **0.266** | **0.130** | **0.138** | **0.0979** | **0.107** | **0.206** | **0.255** | **0.259** | **0.119** | **0.139** | **0.0910** | **0.104** | **0.184** | **0.250** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **109** | **101** | **108** | **95.2** | **116** | **63.8** | **83.0** | **105** | **89.2** | **105** | **87.9** | **110** | **63.0** | **78.1** |
| Chromium | mg/L | 0.000620 J | <0.0004 | 0.00160 J | <0.0004 | <0.0004 | <0.0004 | <0.00173 | 0.000910 J | <0.0004 | 0.00160 J | <0.0004 | <0.0004 | <0.0004 | <0.00173 |
| Iron | mg/L | 0.0269 J | 0.0473 J | 0.0407 J | 0.0316 J | <0.012 | 0.0529 J | <0.06 | 0.0244 J | 0.0401 J | 0.0581 J | 0.0292 J | 0.0135 J | 0.0432 J | <0.06 |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 |
| Magnesium | mg/L | **25.9** | **21.2** | **22.1** | **22.9** | **23.2** | **13.4** | **16.3** | **24.9** | **19.7** | **22.6** | **22.5** | **21.7** | **14.4** | **14.6** |
| Manganese | mg/L | **0.265** | **0.101** | **0.124** | **0.117** | **0.133** | **2.09** | **0.384** | **0.260** | **0.0924** | **0.121** | **0.113** | **0.135** | **2.57** | **0.321** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.00135 J | 0.00132 J | 0.00132 J | 0.00113 J | 0.000841 J | <0.0006 | <0.0013 | 0.00138 J | 0.00112 J | 0.00139 J | 0.00100 J | 0.00199 J | <0.0006 | <0.0013 |
| Potassium | mg/L | **3.25** | **2.89** | **2.95** | **2.49** | **2.04** | **2.42** | **3.13** | **3.13** | **2.58** | **2.94** | **2.45** | **2.00** | **2.43** | **2.85** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **315** | **253** | **279** | **265** | **195** | **125** | **200** | **314** | **230** | **284** | **266** | **190** | **142** | **168** |
| Strontium | mg/L | **0.798** | **0.763** | **0.692** | **0.734** | **0.842** | **0.506** | **0.598** | **0.780** | **0.694** | **0.696** | **0.685** | **0.806** | **0.485** | **0.566** |
| Vanadium | mg/L | 0.00195 J | 0.00151 J | 0.00172 J | 0.00167 J | 0.00187 J | 0.000889 J | 0.00180 J | 0.00194 J | 0.00143 J | 0.00160 J | 0.00170 J | 0.00248 J | 0.000900 J | 0.00182 J |
| Zinc | mg/L | **0.0113** | **0.00435** | 0.00385 J | <0.002 | 0.00210 J | 0.00220 J | <0.003 | 0.00209 J | 0.00334 J | **0.136** | <0.002 | **0.00893** | 0.00263 J | <0.003 |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **160** | **137** | **145** | **138** | **130** | **148** | **166** | **167** | **138** | **152** | **134** | **132** | **127** | **169** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | <3 | <3 | <3 | 10.00 J | <1.2 | <1.2 | <3 | 3.20 J | <3 | <3 | 10.00 J | <1.2 | <1.2 |
| Chloride | mg/L | **536** | **431** | **438** | **418** | **390** | **215** | **288** | **534** | **449** | **433** | **418** | **393** | **228** | **284** |
| Sulfate | mg/L | **164** | **201** | **210** | **197** | **164** | **73.9** | **63.0** | **162** | **201** | **205** | **195** | **165** | **79.0** | **63.3** |
| Total Dissolved Solids (TDS) | mg/L | **1,240 H** | **1,030** | **2,260** | **1,020** | **1,120** | **652** | **738** | **1,260 H** | **1,040** | **1,000** | **920** | **1,160** | **632** | **932** |
| pH | SI | 7.60 H | 7.89 H | 7.77 H | 7.86 H | 8.50 H | 7.57 H | 7.93 H | 7.75 H | 8.12 H | 7.84 H | 7.92 H | 8.51 H | 7.61 H | 7.93 H |
| Field pH | SI | **7.70** | **8.10** | **7.84** | **7.99** | **7.94** | **7.06** | **7.47** | **7.82** | **8.18** | **7.61** | **8.09** | **8.03** | **7.52** | **7.31** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 H | <0.5 | <0.5 | <0.5 | <0.5 | 0.552 J | <0.5 | <0.5 H | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sulfide | mg/L | <1.2 H | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <1.2 H | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.0005 | 0.0010 J | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.0003 | 0.00055 J | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.0003 | 0.0016 J | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.0333 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0333 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.0333 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0333 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.0333 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0333 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | **0.120** | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | LDNR 23 | | | | | | | | LDNR 24 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 11/21/24 | 12/18/24 | 1/29/25 | 2/24/25 | 3/20/25 | 4/22/25 | 7/25/25 | 10/22/25 | 12/17/24 | 1/28/25 | 2/18/25 | 3/17/25 | 4/21/25 | 7/22/25 | 11/17/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00108 J | 0.00112 J | 0.000674 J | 0.000731 J | 0.00108 J | 0.00127 J | 0.00103 J | 0.000995 J | **0.00295** | 0.000873 J | 0.000780 J | 0.000945 J | **0.00200** | 0.00129 J | **0.00255** |
| Barium | mg/L | **0.292** | **0.247** | **0.123** | **0.128** | **0.103** | **0.0978** | **0.261** | **0.266** | **0.362** | **0.173** | **0.155** | **0.0864** | **0.132** | **0.261** | **0.353** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **92.6** | **98.4** | **95.0** | **97.9** | **120** | **109** | **60.0** | **72.8** | **103** | **97.9** | **98.0** | **88.9** | **106** | **74.3** | **79.4** |
| Chromium | mg/L | 0.000472 J | 0.000536 J | <0.0004 | 0.000462 J | <0.0004 | 0.000584 J | <0.0004 | <0.00173 | 0.00105 J | 0.000713 J | 0.000434 J | 0.000573 J | <0.0004 | <0.0004 | <0.00173 |
| Iron | mg/L | 0.0978 J | 0.0293 J | 0.0425 J | 0.0944 J | 0.0291 J | 0.0125 J | 0.0887 J | <0.06 | 0.0602 J | 0.0440 J | 0.0383 J | **0.230** | 0.0319 J | 0.0671 J | 0.125 J |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.000637 J |
| Magnesium | mg/L | **22.9** | **23.6** | **20.7** | **20.9** | **21.6** | **21.6** | **12.1** | **14.0** | **24.4** | **22.0** | **21.3** | **19.8** | **21.3** | **13.4** | **16.5** |
| Manganese | mg/L | **0.318** | **0.272** | **0.138** | **0.112** | **0.158** | **0.115** | **3.54** | **0.429** | **0.872** | **0.327** | **0.133** | **0.117** | **0.340** | **0.512** | **1.12** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.00142 J | 0.00129 J | 0.00109 J | 0.00117 J | 0.00105 J | 0.00192 J | 0.000708 J | <0.0013 | **0.00206** | 0.00158 J | 0.00129 J | **0.00302** | 0.00102 J | 0.000762 J | <0.0013 |
| Potassium | mg/L | **2.84** | **3.00** | **2.72** | **2.88** | **2.37** | **1.96** | **2.33** | **2.78** | **3.26** | **2.97** | **2.92** | **2.35** | **1.98** | **2.59** | **3.03** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **297** | **293** | **267** | **225** | **275** | **226** | **121** | **163** | **325** | **318** | **268** | **248** | **225** | **136** | **222** |
| Strontium | mg/L | **0.748** | **0.762** | **0.721** | **0.752** | **0.799** | **0.809** | **0.463** | **0.553** | **0.813** | **0.759** | **0.754** | **0.677** | **0.784** | **0.531** | **0.624** |
| Vanadium | mg/L | 0.00249 J | 0.00203 J | 0.00133 J | 0.00175 J | 0.00203 J | 0.00214 J | 0.000786 J | 0.00282 J | 0.00462 J | 0.00150 J | 0.00134 J | 0.000960 J | 0.00152 J | 0.00242 J | 0.00279 J |
| Zinc | mg/L | **0.00421** | 0.00273 J | 0.00356 J | <0.002 | 0.00264 J | **0.00709** | 0.00204 J | 0.00325 J | **0.00489** | <0.002 | **0.00418** | 0.00380 J | **0.0114** | 0.00348 J | 0.00586 J |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **155** | **164** | **136** | **150** | **146** | **135** | **130** | **165** | **154** | **149** | **162** | **195** | **145** | **163** | **194** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.0872 J |
| Carbonate Alkalinity | mg/L | <3 | <3 | **6.80** | <3 | <3 | 9.60 J | <1.2 | <1.2 | <3 | <3 | <3 | <3 | 6.60 J | <1.2 | <1.2 |
| Chloride | mg/L | **549** | **545** | **448** | **404** | **426** | **415** | **222** | **294** | **581** | **422** | **441** | **422** | **402** | **209** | **350** |
| Sulfate | mg/L | **150** | **170** | **197** | **209** | **196** | **172** | **83.4** | **62.6** | **181** | **184** | **202** | **194** | **166** | **79.9** | **55.4** |
| Total Dissolved Solids (TDS) | mg/L | **936** | **1,040** | **1,030** | **1,050** | **1,070** | **1,100** | **604** | **928** | **1,060** | **976** | **1,090** | **612** | **956** | **656** | **884** |
| pH | SI | 7.40 H | 7.33 H | 8.21 H | 7.21 H | 7.94 H | 8.48 H | 7.61 H | 7.87 H | 7.19 H | 7.66 H | 6.20 H | 7.68 H | 8.35 H | 7.49 H | 7.57 H |
| Field pH | SI | **7.47** | **7.73** | **8.35** | **7.90** | **8.65** | **7.42** | **7.29** | **7.41** | NM | **7.35** | **7.52** | **7.52** | **7.40** | **6.92** | **7.24** |
| **Sulfides** | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | 0.552 J | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **1.28** | <0.5 | **1.28** | <0.5 | <0.5 | <0.5 |
| Sulfide | mg/L | <1.2 | <1.2 | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <1.2 | 1.20 J | <0.92 | 1.20 J | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | 0.00050 J | 0.00061 J | 0.00049 J | 0.00040 J | 0.00077 J | <0.00028 | 0.00084 J |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | 0.00066 J | 0.00069 J | 0.00054 J | 0.00046 J | 0.00081 J | <0.00033 | 0.0020 J |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.0333 | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.167 | **0.0652** | **0.0378** | **0.0249** | **0.0860** | **0.153** | **0.0600** |
| Aliphatics >C8-C10 | mg/L | <0.0333 | <0.167 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.167 | <0.0004 | <0.0004 | <0.0004 | 0.00124 J | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.0333 | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.167 | 0.00879 J | <0.0006 | <0.0006 | 0.00450 J | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | LDNR 25 | | | | | | | LDNR 26 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/18/24 | 1/28/25 | 2/24/25 | 3/18/25 | 4/23/25 | 7/23/25 | 10/21/25 | 12/17/24 | 1/28/25 | 2/17/25 | 3/17/25 | 4/21/25 | 7/22/25 | 11/17/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00101 J | 0.000678 J | 0.000694 J | 0.000942 J | 0.00135 J | 0.00126 J | 0.000791 J | **0.00203** | 0.00138 J | 0.00164 J | 0.00154 J | 0.00179 J | 0.00136 J | 0.00172 J |
| Barium | mg/L | **0.241** | **0.127** | **0.118** | **0.0925** | **0.113** | **0.241** | **0.229** | **0.452** | **0.417** | **0.478** | **0.453** | **0.512** | **0.391** | **0.409** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **102** | **96.5** | **96.5** | **96.2** | **108** | **62.4** | **70.8** | **8.72** | **8.79** | **9.77** | **8.70** | **9.28** | **8.75** | **9.01** |
| Chromium | mg/L | 0.000541 J | 0.00128 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.00173 | 0.000803 J | <0.0004 | 0.000413 J | <0.0004 | <0.0004 | <0.0004 | <0.00173 |
| Iron | mg/L | 0.0269 J | 0.0532 J | 0.0801 J | 0.106 J | <0.012 | 0.0272 J | <0.06 | 0.121 J | <0.012 | 0.147 J | 0.106 J | 0.0138 J | 0.0602 J | 0.144 J |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.00047 |
| Magnesium | mg/L | **24.2** | **21.2** | **20.5** | **22.6** | **22.0** | **12.7** | **14.1** | **1.60** | **1.67** | **1.80** | **1.64** | **1.67** | **1.61** | **1.67** |
| Manganese | mg/L | **0.192** | **0.0879** | **0.0474** | **0.154** | **0.235** | **1.70** | **0.301** | **0.0383** | 0.00483 J | **0.0216** | **0.00919** | **0.0295** | **0.0126** | **0.0448** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | **0.00003** | <0.00003 | <0.00003 | <0.00003 | <0.00003 | 0.0000420 J | 0.0000300 J | <0.00003 | <0.00003 | <0.00003 |
| Nickel | mg/L | 0.00120 J | 0.00115 J | 0.000989 J | 0.00128 J | 0.00120 J | <0.0006 | <0.0013 | 0.00127 J | 0.000991 J | 0.000862 J | 0.000899 J | 0.000670 J | **0.00404** | <0.0013 |
| Potassium | mg/L | **3.06** | **2.77** | **2.79** | **2.51** | **1.94** | **1.74** | **2.65** | **1.33** | **1.33** | **1.39** | **1.26** | **1.35** | **1.25** | **1.34** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **319** | **233** | **230** | **264** | **233** | **175** | **168** | **30.9** | **31.2** | **38.9** | **31.5** | **32.1** | **31.1** | **31.8** |
| Strontium | mg/L | **0.797** | **0.728** | **0.707** | **0.747** | **0.801** | **0.524** | **0.521** | **0.133** | **0.142** | **0.152** | **0.134** | **0.137** | **0.132** | **0.139** |
| Vanadium | mg/L | 0.00191 J | 0.00121 J | 0.00118 J | 0.00121 J | 0.00177 J | 0.000850 J | 0.00222 J | 0.000967 J | <0.0006 | 0.00155 J | <0.0006 | 0.00101 J | 0.00142 J | 0.00105 J |
| Zinc | mg/L | **0.00975** | <0.002 | <0.002 | <0.002 | 0.00236 J | 0.00240 J | <0.003 | **0.00405** | 0.00282 J | **0.168** | **0.00416** | 0.00348 J | 0.00232 J | 0.00327 J |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **167** | **139** | **148** | **225** | **129** | **125** | **168** | **39.4** | **38.1** | **40.4** | **45.0** | **40.2** | **37.9** | **42.7** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | **5.60** | <3 | <3 | 10.00 J | <1.2 | <1.2 | <3 | <3 | <3 | <3 | <3 | <1.2 | <1.2 |
| Chloride | mg/L | **587** | **450** | **406** | **433** | **415** | **307** | **292** | **37.1** | **36.5** | **36.8** | **36.4** | **35.7** | **34.0** | **37.3** |
| Sulfate | mg/L | **188** | **199** | **204** | **196** | **165** | **82.2** | **63.1** | **20.2** | **22.0** | **22.6** | **20.7** | **19.9** | **18.5** | **16.6** |
| Total Dissolved Solids (TDS) | mg/L | **1,020** | **996** | **984** | **960** | **1,080** | **852** | **692** | **250** | **132** | **124** | **174** | **130** | **148** | **47.0** |
| pH | SI | 8.00 H | 7.53 H | 7.70 H | 8.19 H | 8.49 H | **7.71** | 7.93 H | 7.23 H | 7.73 H | 7.92 H | 7.44 H | 7.95 H | 7.94 H | 7.92 H |
| Field pH | SI | **7.90** | **8.40** | **7.85** | **8.52** | NM | **7.24** | **6.33** | **6.86** | **8.40** | **8.00** | **7.01** | **7.87** | **6.20** | **8.21** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | 0.552 J | **1.49** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sulfide | mg/L | <1.2 | 1.40 J | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <1.2 | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00028 | <0.00028 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | <0.00033 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | <0.00033 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | <0.00061 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | <0.00031 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00030 | <0.00092 | <0.00092 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.167 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0333 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.167 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | 0.0336 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | 0.0273 J | <0.025 | <0.025 | <0.025 | 0.0323 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | <0.025 | 0.0558 J | <0.025 | 0.0303 J | <0.025 | <0.025 | <0.025 | **0.131** | 0.0558 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.167 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0333 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | PPG 7BS | | | | | | | SL-01 Top | | SL-01 Bott | | SL-02 Top | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/16/24 | 1/27/25 | 2/19/25 | 3/19/25 | 4/23/25 | 7/24/25 | 10/23/25 | 2/17/25 | 7/21/25 | 2/17/25 | 7/21/25 | 2/17/25 | 7/21/25 |
| | Sample Interval (ft) | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Top | | Bottom | | Top | |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Bubble Site (Surface Water)** | | | | | | | **Salt Lake Background** | | | | | |
| **Total Metals** | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00197 J | <0.02 | 0.00363 J | <0.008 | <0.02 | <0.02 | <0.0255 | 0.00171 J | 0.00149 J | 0.00168 J | 0.00141 J | 0.00161 J | 0.00154 J |
| Barium | mg/L | **0.548** | **1.41** | **1.16** | **1.59** | **1.35** | **1.29** | **2.46** | **0.468** | **0.403** | **0.481** | **0.408** | **0.434** | **0.444** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **53.1** | **224** | **200** | **240** | **216** | **183** | **221** | **9.47** | **9.25** | **9.92** | **8.90** | **9.28** | **10.0** |
| Chromium | mg/L | <0.0004 | <0.02 | **0.0440** | <0.008 | <0.02 | <0.02 | <0.0865 | <0.0004 | <0.0004 | 0.000437 J | <0.0004 | <0.0004 | <0.0004 |
| Iron | mg/L | 0.0552 J | <0.6 | 0.251 J | 0.310 J | <0.6 | 3.04 J | <3 | 0.120 J | 0.0529 J | 0.144 J | 0.0650 J | 0.0858 J | 0.0655 J |
| Lead | mg/L | <0.003 | <0.03 | <0.006 | <0.012 | <0.03 | <0.03 | <0.0235 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Magnesium | mg/L | **1.57** | 4.63 J | 4.13 J | **5.22** | 4.44 J | 3.90 J | 5.38 J | **1.71** | **1.73** | **1.78** | **1.66** | **1.69** | **1.83** |
| Manganese | mg/L | **0.316** | **0.599** | **0.527** | **0.648** | **0.682** | **0.643** | **0.484** | **0.0194** | **0.0134** | **0.0245** | **0.0141** | **0.0167** | **0.0147** |
| Mercury | mg/L | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | <0.00003 | 0.0000370 J | <0.00003 | 0.0000340 J | <0.00003 | 0.0000520 J | <0.00003 |
| Nickel | mg/L | **0.00589** | <0.03 | **0.0206** | 0.0193 J | <0.03 | <0.03 | <0.065 | 0.000667 J | 0.000690 J | 0.000969 J | <0.0006 | 0.000657 J | <0.0006 |
| Potassium | mg/L | **1.97** | 5.08 J | 4.55 J | **6.88** | 6.39 J | 7.87 J | 10.3 J | **1.37** | **1.35** | **1.44** | **1.29** | **1.33** | **1.44** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **9,010** | **42,800** | **41,300** | **50,500** | **44,100** | **39,000** | **51,600** | **32.9** | **33.2** | **34.5** | **31.9** | **32.2** | **35.6** |
| Strontium | mg/L | **0.393** | **1.09** | **0.801** | **1.10** | **0.970** | **0.984** | **1.32** | **0.15** | **0.133** | **0.153** | **0.132** | **0.143** | **0.148** |
| Vanadium | mg/L | 0.00316 J | <0.03 | 0.0174 J | <0.012 | <0.03 | <0.03 | <0.03 | 0.00134 J | 0.00137 J | 0.00175 J | 0.00153 J | 0.00114 J | 0.00166 J |
| Zinc | mg/L | **0.921** | **1.24** | **1.07** | **1.04** | **2.49** | **3.05** | **0.675** | 0.00369 J | 0.00319 J | 0.00341 J | 0.00209 J | 0.00208 J | 0.00352 J |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **104** | **131** | **130** | **138** | **126** | **142** | **231** | **39.7** | **37.1** | **38.9** | **37.7** | **40.0** | **37.6** |
| Bromide | mg/L | <0.3 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | 4.22 J | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | <3 | <3 | <3 | <3 | **10.2** | <1.2 | <3 | <1.2 | <3 | <1.2 | <3 | <1.2 |
| Chloride | mg/L | **16,100** | **62,000** | **60,900** | **67,000** | **55,100** | **52,600** | **70,900** | **37.0** | **33.9** | **37.3** | **33.9** | **36.7** | **33.9** |
| Sulfate | mg/L | **63.8** | **311** | **340** | **388** | **302** | **247** | **233** | **22.5** | **18.5** | **22.8** | **18.5** | **22.4** | **18.4** |
| Total Dissolved Solids (TDS) | mg/L | **26,200** | **97,300** | **94,500** | **92,700** | **87,200** | **85,600** | **97,700** | **140** | **166** | **122** | **174** | **130** | **296** |
| pH | SI | 7.48 H | 7.63 H | 7.52 H | 7.69 H | 8.08 H | 8.35 H | 8.26 H | 7.50 H | 8.15 H | 7.58 H | 8.16 H | 7.90 H | 7.93 H |
| Field pH | SI | **7.19** | **5.98** | **7.52** | **7.55** | **6.86** | **7.94** | **7.32** | **8.08** | **8.35** | **7.98** | **7.90** | **8.33** | **7.93** |
| **Sulfides** | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **3.91** | <0.5 | 0.722 J | <0.5 | **18.8** |
| Sulfide | mg/L | <1.2 | <1.2 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | 3.68 J | <0.92 | <0.92 | <0.92 | **17.7** |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | 0.00020 J | <0.0002 | <0.0002 | <0.00028 | NA | <0.00028 | <0.0002 | <0.00028 | <0.0002 | <0.00028 | <0.0002 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00033 | NA | <0.00033 | <0.0003 | <0.00033 | <0.0003 | <0.00033 | <0.0003 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00033 | NA | <0.00033 | <0.0002 | <0.00033 | <0.0002 | <0.00033 | <0.0002 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.00061 | NA | <0.00061 | <0.0005 | <0.00061 | <0.0005 | <0.00061 | <0.0005 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00031 | NA | <0.00031 | <0.0003 | <0.00031 | <0.0003 | <0.00031 | <0.0003 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00092 | NA | <0.00092 | <0.0003 | <0.00092 | <0.0003 | <0.00092 | <0.0003 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.333 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | NA | **0.0320** | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.333 | **0.00527** | 0.00351 J | 0.00363 J | 0.00142 J | NA | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | 0.0265 J | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | **0.141** | **0.194** | 0.0806 J | <0.025 | 0.0939 J | <0.025 | <0.025 | <0.025 | <0.025 | 0.0423 J | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.333 | **0.0658** | **0.0414** | **0.0441** | 0.0181 J | NA | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 2
**Surface Water Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | LDNR Sample No. | SL-02 Bott | | SL-03 Top | | SL-03 Bott | | SL-04 Top | | SL-04 Bott | | SL-05 Top | | SL-05 Bott | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 2/17/25 | 7/21/25 | 2/17/25 | 7/21/25 | 2/17/25 | 7/21/25 | 2/17/25 | 7/21/25 | 2/17/25 | 7/21/25 | 2/17/25 | 7/21/25 | 2/17/25 | 7/21/25 |
| | Sample Interval (ft) | Bottom | | Top | | Bottom | | Top | | Bottom | | Top | | Bottom | |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Constituent** | **Units** | **Salt Lake Background** | | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.00159 J | 0.00150 J | 0.00158 J | 0.00155 J | 0.00175 J | 0.00164 J | 0.00168 J | 0.00166 J | 0.00165 J | 0.00165 J | 0.00161 J | 0.00160 J | 0.00168 J | 0.00169 J |
| Barium | mg/L | **0.449** | **0.407** | **0.448** | **0.385** | **0.465** | **0.405** | **0.449** | **0.395** | **0.458** | **0.414** | **0.463** | **0.400** | **0.465** | **0.411** |
| Cadmium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Calcium | mg/L | **9.24** | **9.55** | **9.51** | **8.83** | **9.73** | **9.31** | **9.45** | **9.49** | **9.74** | **9.62** | **9.57** | **9.32** | **9.62** | **9.68** |
| Chromium | mg/L | <0.0004 | 0.00162 J | <0.0004 | 0.00155 J | <0.0004 | <0.0004 | <0.0004 | 0.000405 J | <0.0004 | 0.000590 J | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Iron | mg/L | 0.131 J | 0.0616 J | 0.114 J | 0.0537 J | 0.119 J | 0.0457 J | 0.0896 J | 0.0554 J | 0.173 J | 0.0523 J | 0.0739 J | 0.0434 J | 0.108 J | 0.0599 J |
| Lead | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Magnesium | mg/L | **1.67** | **1.77** | **1.74** | **1.65** | **1.74** | **1.72** | **1.73** | **1.76** | **1.79** | **1.79** | **1.73** | **1.75** | **1.75** | **1.79** |
| Manganese | mg/L | **0.0185** | **0.0136** | **0.0175** | **0.0110** | **0.0179** | **0.0119** | **0.0191** | **0.0135** | **0.02** | **0.0124** | **0.0167** | **0.0116** | **0.0181** | **0.0129** |
| Mercury | mg/L | 0.0000360 J | <0.00003 | 0.0000390 J | <0.00003 | 0.0000370 J | <0.00003 | 0.0000370 J | <0.00003 | 0.0000370 J | <0.00003 | 0.0000400 J | <0.00003 | 0.0000400 J | <0.00003 |
| Nickel | mg/L | 0.000704 J | <0.0006 | 0.000818 J | <0.0006 | 0.000846 J | <0.0006 | 0.000714 J | 0.000620 J | 0.000734 J | <0.0006 | 0.000632 J | <0.0006 | 0.000712 J | <0.0006 |
| Potassium | mg/L | **1.34** | **1.38** | **1.38** | **1.28** | **1.39** | **1.36** | **1.39** | **1.39** | **1.42** | **1.41** | **1.37** | **1.36** | **1.40** | **1.40** |
| Selenium | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Silver | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Sodium | mg/L | **31.9** | **33.5** | **32.8** | **31.3** | **33.9** | **32.8** | **32.8** | **33.9** | **33.5** | **33.8** | **33.1** | **33.0** | **33.2** | **34.0** |
| Strontium | mg/L | **0.147** | **0.141** | **0.148** | **0.132** | **0.149** | **0.137** | **0.15** | **0.136** | **0.151** | **0.140** | **0.145** | **0.141** | **0.147** | **0.141** |
| Vanadium | mg/L | 0.00153 J | 0.00152 J | 0.00128 J | 0.00120 J | 0.00123 J | 0.00125 J | 0.00118 J | 0.00123 J | 0.00126 J | 0.00128 J | 0.00110 J | 0.00135 J | 0.00128 J | 0.00126 J |
| Zinc | mg/L | <0.002 | 0.00252 J | 0.00255 J | 0.00264 J | **0.0123** | 0.00234 J | **0.00511** | 0.00320 J | <0.002 | 0.00218 J | **0.0108** | 0.00308 J | 0.00243 J | 0.00232 J |
| **Anions/Wateruality Parameters** | | | | | | | | | | | | | | | |
| Bicarbonate Alkalinity | mg/L | **40.2** | **38.0** | **40.3** | **38.2** | **39.6** | **36.9** | **43.5** | **37.7** | **39.3** | **37.2** | **41.8** | **41.1** | **40.4** | **37.9** |
| Bromide | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Carbonate Alkalinity | mg/L | <3 | <1.2 | <3 | <1.2 | <3 | <1.2 | <3 | <1.2 | <3 | <1.2 | <3 | <1.2 | <3 | <1.2 |
| Chloride | mg/L | **36.7** | **33.8** | **36.7** | **33.7** | **36.8** | **33.6** | **36.5** | **33.7** | **36.7** | **33.7** | **36.6** | **33.7** | **36.7** | **33.8** |
| Sulfate | mg/L | **22.4** | **18.8** | **22.6** | **18.6** | **22.6** | **18.4** | **22.4** | **18.5** | **22.5** | **18.5** | **22.3** | **18.5** | **22.4** | **18.4** |
| Total Dissolved Solids (TDS) | mg/L | **140** | **144** | **112** | **160** | **110** | **148** | **120** | **156** | **118** | **164** | **128** | **148** | **126** | **166** |
| pH | SI | 7.65 H | 8.09 H | 7.82 H | 8.09 H | 7.63 H | 8.12 H | 8.41 H | 8.13 H | 8.12 H | 7.98 H | 7.99 H | 8.05 H | 7.75 H | 7.97 H |
| Field pH | SI | **8.03** | **7.87** | **8.00** | **8.07** | **8.22** | **7.99** | **8.16** | **7.76** | **8.23** | **7.96** | **8.23** | **6.80** | **8.25** | **6.39** |
| **Sulfides** | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | mg/L | <0.5 | **1.78** | <0.5 | <0.5 | <0.5 | **26.2** | <0.5 | **10.3** | <0.5 | **23.0** | <0.5 | **28.1** | <0.5 | **23.0** |
| Sulfide | mg/L | <0.92 | 1.68 J | <0.92 | <0.92 | <0.92 | **24.7** | <0.92 | **9.68** | <0.92 | **21.7** | <0.92 | **26.5** | <0.92 | **21.7** |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0002 | <0.00028 | <0.0002 | <0.00028 | <0.0002 | <0.00028 | <0.0002 | <0.00028 | <0.0002 | <0.00028 | <0.0002 | <0.00028 | <0.0002 | <0.00028 |
| Ethylbenzene | mg/L | <0.0003 | <0.00033 | <0.0003 | <0.00033 | <0.0003 | <0.00033 | <0.0003 | <0.00033 | <0.0003 | <0.00033 | <0.0003 | <0.00033 | <0.0003 | <0.00033 |
| Toluene | mg/L | <0.0002 | <0.00033 | <0.0002 | <0.00033 | <0.0002 | <0.00033 | <0.0002 | <0.00033 | <0.0002 | <0.00033 | <0.0002 | <0.00033 | <0.0002 | <0.00033 |
| m,p-Xylene | mg/L | <0.0005 | <0.00061 | <0.0005 | <0.00061 | <0.0005 | <0.00061 | <0.0005 | <0.00061 | <0.0005 | <0.00061 | <0.0005 | <0.00061 | <0.0005 | <0.00061 |
| o-Xylene | mg/L | <0.0003 | <0.00031 | <0.0003 | <0.00031 | <0.0003 | <0.00031 | <0.0003 | <0.00031 | <0.0003 | <0.00031 | <0.0003 | <0.00031 | <0.0003 | <0.00031 |
| Xylenes, Total | mg/L | <0.0003 | <0.00092 | <0.0003 | <0.00092 | <0.0003 | <0.00092 | <0.0003 | <0.00092 | <0.0003 | <0.00092 | <0.0003 | <0.00092 | <0.0003 | <0.00092 |
| **TPH Fractions** | | | | | | | | | | | | | | | |
| Aliphatics >C6-C8 | mg/L | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 | <0.0018 |
| Aliphatics >C8-C10 | mg/L | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Aliphatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aliphatics >C16-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C8-C10 | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Aromatics >C10-C12 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C12-C16 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C16-C21 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Aromatics >C21-C35 | mg/L | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
**Bolded** values deteted in the sample.

Table 3
**Central Lake Water Column Profile**
Sulphur Dome
Calcasieu Parish, Louisiana

| 1/3/2025 | 9:15 | Water Column Station (water depth 5.4') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.53 | 2047 | 185 | 17.2 | 1521 |
| 3 | 7.56 | 2051 | 142 | 17.6 | 1524 |
| 5 | 7.62 | 2035 | 92 | 17.4 | 1511 |

| 1/8/2025 | 12:39 | Water Column Station (water depth NM) | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.98 | 2074 | 188 | 11.2 | 1541 |
| 3 | 7.87 | 2081 | 110 | 10.8 | 1550 |
| 5 | 7.99 | 2084 | 123 | 11.2 | 1554 |

| 1/17/2025 | 9:45 | Water Column Station (water depth 5.5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.98 | 1828 | 263 | 11.9 | 1351 |
| 3 | 7.93 | 1825 | 233 | 11.5 | 1350 |
| 5 | 7.84 | 1812 | 145 | 12.3 | 1337 |

| 1/24/2025 | 9:37 | Water Column Station (water depth 5.5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 8.18 | 1832 | 236 | 7.9 | 1361 |
| 3 | 8.16 | 1842 | 225 | 7.3 | 1372 |
| 5 | 8.14 | 1856 | 198 | 7.3 | 1374 |

| 1/31/2025 | 9:11 | Water Column Station (water depth 5.5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 8.07 | 1909 | 238 | 17.4 | 1417 |
| 3 | 8.00 | 1855 | 227 | 17.1 | 1370 |
| 5 | 7.87 | 1881 | 180 | 16.8 | 1395 |

| 2/14/2025 | 12:30 | Water Column Station (water depth 5.9') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.77 | 1884 | 161 | 14.3 | 1393 |
| 3 | 7.54 | 1876 | 84 | 15.2 | 1386 |
| 5 | 7.58 | 1878 | 61 | 15.2 | 1388 |

| 2/21/2025 | 12:35 | Water Column Station (water depth 6.0') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.84 | 1886 | 207 | 8.7 | 1406 |
| 3 | 7.74 | 1889 | 90 | 8.4 | 1409 |
| 5 | 7.87 | 1886 | 90 | 8.5 | 1409 |

| 2/28/2025 | 9:16 | Water Column Station (water depth 5.9') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.76 | 1750 | 226 | 17.3 | 1282 |
| 3 | 7.73 | 1737 | 181 | 16.7 | 1274 |
| 5 | 7.79 | 1755 | 198 | 17.9 | 1283 |

| 3/7/2025 | 9:30 | Water Column Station (water depth 5.6') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 8.27 | 1814 | 91 | 18.2 | 1335 |
| 3 | 8.03 | 1802 | 110 | 17.7 | 1323 |
| 5 | 7.91 | 1833 | 110 | 18.6 | 1348 |

Table 3
**Central Lake Water Column Profile**
Sulphur Dome
Calcasieu Parish, Louisiana

| 3/14/2025 | 9:30 | Water Column Station (water depth 5.10') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 8.17 | 1841 | 222 | 22.2 | 1347 |
| 3 | 8.09 | 1835 | 215 | 22.1 | 1344 |
| 5 | 8.14 | 1858 | 173 | 22.1 | 1360 |

| 3/21/2025 | 9:16 | Water Column Station (water depth 5.9') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 8.07 | 1901 | 137 | 17.9 | 1406 |
| 3 | 7.97 | 1898 | 138 | 17.6 | 1402 |
| 5 | 7.87 | 1897 | 65 | 16.9 | 1399 |

| 3/27/2025 | 12:33 | Water Column Station (water depth 5.9') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 8.13 | 1933 | 102 | 23.9 | 1419 |
| 3 | 8.01 | 1923 | 125 | 23.7 | 1410 |
| 5 | 7.69 | 2024 | 13 | 22.9 | 1474 |

| 4/4/2025 | 8:00 | Water Column Station (water depth 5.8') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.78 | 1765 | 222 | 25.3 | 1283 |
| 3 | 7.69 | 1778 | 70 | 25.3 | 1289 |
| 5 | 7.75 | 1756 | 42 | 25.5 | 1273 |

| 4/11/2025 | 9:30 | Water Column Station (water depth 5.4') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.86 | 1755 | 183 | 32.7 | 1278 |
| 3 | 7.75 | 1751 | 161 | 22.4 | 1277 |
| 5 | 7.70 | 1767 | 40 | 22.3 | 1291 |

| 4/17/2025 | NM | Water Column Station (water depth 5.3') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.89 | 1798 | 185 | 26.0 | 1314 |
| 3 | 7.82 | 1795 | 150 | 25.2 | 1304 |
| 5 | 7.93 | 1818 | 121 | 25.9 | 1322 |

| 4/25/2025 | 11:01 | Water Column Station (water depth 5.11') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.90 | 1705 | 146 | 28.2 | 1228 |
| 3 | 7.81 | 1145 | 110 | 27.6 | 1237 |
| 5 | 7.50 | 1837 | -127 | 27.5 | 1329 |

| 5/2/2025 | 10:00 | Water Column Station (water depth 6.6') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 8.11 | 1657 | 187 | 27.5 | 1193 |
| 3 | 8.12 | 1653 | 168 | 27.0 | 1191 |
| 5 | 7.92 | 1672 | 45 | 27.0 | 1201 |

| 5/9/2025 | 12:45 | Water Column Station (water depth 7') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.64 | 1021 | 154 | 23.8 | 721.2 |
| 3 | 7.33 | 1133 | 20 | 23.8 | 802.4 |
| 5 | 7.35 | 1286 | -124 | 23.8 | 917.1 |

Table 3
**Central Lake Water Column Profile**
Sulphur Dome
Calcasieu Parish, Louisiana

| 5/16/2025 | 9:00 | Water Column Station (water depth 7') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.63 | 1010 | 90 | 27.5 | 706.5 |
| 3 | 7.28 | 1011 | 5 | 26.7 | 709.0 |
| 5 | 7.08 | 1112 | -150 | 25.4 | 783.4 |

| 5/23/2025 | 1:00 | Water Column Station (water depth 5.2') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.36 | 1073 | 32 | 31.1 | 748.7 |
| 3 | 7.27 | 1066 | -42 | 30.8 | 742.6 |
| 5 | 6.98 | 1169 | -197 | 29.7 | 821.2 |

| 5/30/2025 | 9:00 | Water Column Station (water depth 5.9') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.44 | 1069 | 149 | 28.8 | 749.2 |
| 3 | 7.25 | 1066 | -28 | 28.2 | 746.6 |
| 5 | 7.26 | 1170 | -158 | 28.2 | 934.2 |

| 6/6/2025 | 12:40 | Water Column Station (water depth 5.4') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.31 | 1131 | 104 | 35.0 | 784.3 |
| 3 | 7.21 | 1109 | -54 | 32.8 | 772.4 |
| 5 | 6.95 | 1190 | -172 | 33.7 | 824.3 |

| 6/13/2025 | 8:00 | Water Column Station (water depth 5.5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.60 | 1145 | -2 | 27.3 | 804.0 |
| 3 | 7.32 | 1141 | -46 | 27.4 | 801.7 |
| 5 | 7.26 | 1178 | -92 | 27.3 | 829.4 |

| 6/20/2025 | 9:30 | Water Column Station (water depth 5.4') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.57 | 977.9 | 109 | 30.9 | 678.6 |
| 3 | 7.56 | 1005 | -120 | 29.9 | 699.5 |
| 5 | 7.24 | 1080 | -178 | 28.7 | 756.3 |

| 6/27/2025 | 8:00 | Water Column Station (water depth 5.5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.37 | 962.7 | 118 | 28.5 | 668.2 |
| 3 | 7.35 | 964.5 | -34 | 28.9 | 669.5 |
| 5 | 7.04 | 1132 | -213 | 28.9 | 793.2 |

| 7/3/2025 | 7:40 | Water Column Station (water depth 5.2') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.30 | 1005 | -75 | 29.4 | 698.7 |
| 3 | 7.37 | 995.3 | -68 | 29.7 | 693.8 |
| 5 | 7.07 | 1281 | -200 | 29.1 | 903.0 |

| 7/11/2025 | 7:45 | Water Column Station (water depth 5.5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.29 | 1009 | -98 | 28.6 | 704.8 |
| 3 | 7.31 | 1010 | -123 | 28.8 | 704.0 |
| 5 | 7.04 | 1128 | -194 | 29.1 | 790.9 |

Table 3
**Central Lake Water Column Profile**
Sulphur Dome
Calcasieu Parish, Louisiana

| 7/17/2025 | 8:00 | Water Column Station (water depth NM) | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.27 | 1057 | -84 | 28.0 | 739.6 |
| 3 | 7.31 | 1049 | -113 | 28.4 | 732.8 |
| 5 | 6.95 | 1124 | -196 | 28.2 | 789.2 |

| 7/25/2025 | 7:30 | Water Column Station (water depth 5.4') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.26 | 1138 | -85 | 28.1 | 798.6 |
| 3 | 7.23 | 1134 | -124 | 29 | 797.6 |
| 5 | 6.92 | 1210 | -195 | 28.1 | 857.9 |

| 8/1/2025 | 7:30 | Water Column Station (water depth 5.0') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.23 | 1195 | -106 | 28 | 846.2 |
| 3 | 7.28 | 1193 | -116 | 28.3 | 839.8 |
| 5 | 7.22 | 1230 | -110 | 28.3 | 866.8 |

| 8/15/2025 | 7:30 | Water Column Station (water depth 5.3') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.55 | 1360 | -28 | 28.6 | 959.9 |
| 3 | 7.60 | 1361 | -74 | 29.3 | 965.0 |
| 5 | 7.02 | 1486 | -191 | 29.5 | 1060 |

| 8/18/2025 | 7:30 | Water Column Station (water depth 5.3') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.34 | 1289 | 57 | 28.5 | 909.9 |
| 3 | 7.37 | 1280 | -83 | 29.0 | 912.3 |
| 5 | 7.12 | 1407 | -149 | 29.5 | 997.7 |

| 8/22/2025 | 8:50 | Water Column Station (water depth 4.5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.43 | 1427 | -25 | 28.0 | 1013 |
| 3 | 7.51 | 1422 | -73 | 28.3 | 1008 |
| 5 | 7.09 | 1489 | -161 | 28.4 | 1062 |

| 8/28/2025 | 7:45 | Water Column Station (water depth 5.5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.48 | 1423 | 93 | 27.2 | 1013 |
| 3 | 7.49 | 1428 | 92 | 27.9 | 1014 |
| 5 | 7.14 | 1556 | -172 | 28.6 | 1111 |

| 9/5/2025 | 8:39 | Water Column Station (water depth 6.3') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 8.14 | 848.7 | -8 | 28.6 | 586.8 |
| 3 | 7.44 | 859.8 | -135 | 28.5 | 595.7 |
| 5 | 7.09 | 1014 | -184 | 28.6 | 708.5 |

| 9/12/2025 | 8:09 | Water Column Station (water depth 5.4') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.32 | 893.7 | 190 | 26.6 | 623.9 |
| 3 | 7.20 | 870.2 | 12 | 27.2 | 604.7 |
| 5 | 7.06 | 1048 | -177 | 27.2 | 736.8 |

Table 3
**Central Lake Water Column Profile**
Sulphur Dome
Calcasieu Parish, Louisiana

| 9/19/2025 | 11:00 | Water Column Station (water depth 5.3') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.34 | 941.4 | 127 | 29.6 | 652.5 |
| 3 | 7.30 | 940.6 | 85 | 30.5 | 651.7 |
| 5 | 6.94 | 1001 | -169 | 30.8 | 746.8 |

| 9/26/2025 | 8:30 | Water Column Station (water depth 5.3') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.37 | 1027 | 123 | 25.3 | 726.3 |
| 3 | 7.36 | 1031 | 95 | 26.3 | 725.9 |
| 5 | 7.06 | 1152 | 156 | 26.8 | 814.4 |

| 10/3/2025 | 7:30 | Water Column Station (water depth 5.2') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.50 | 1119 | 189 | 24.8 | 793.2 |
| 3 | 7.38 | 1106 | 119 | 25.4 | 781.0 |
| 5 | 7.14 | 1257 | -123 | 25.6 | 893.8 |

| 10/10/2025 | 7:30 | Water Column Station (water depth 5.1') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.52 | 1175 | 182 | 23.9 | 845 |
| 3 | 7.50 | 1173 | 173 | 25.3 | 843.7 |
| 5 | 7.06 | 1480 | -97 | 25.1 | 996.6 |

| 10/17/2025 | 7:30 | Water Column Station (water depth 5.1') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.35 | 1238 | 253 | 23.2 | 882.7 |
| 3 | 7.32 | 1235 | 202 | 23.6 | 881 |
| 5 | 7.12 | 1469 | -65 | 23 | 1056 |

| 10/24/2025 | 7:56 | Water Column Station (water depth 4.9') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.55 | 1345 | 108 | 21.9 | 963.1 |
| 3 | 7.54 | 1337 | 123 | 22.2 | 959.1 |
| 5 | 7.27 | 1458 | -41 | 21.9 | 1050 |

| 10/31/2025 | 8:06 | Water Column Station (water depth 5.1') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.73 | 1382 | 91 | 17 | 1002 |
| 3 | 7.60 | 1372 | 89 | 17.4 | 993.3 |
| 5 | 7.34 | 1528 | -50 | 18.6 | 1012 |

| 11/7/2025 | 7:43 | Water Column Station (water depth 5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.64 | 1447 | 40 | 21.1 | 1043 |
| 3 | 7.64 | 1448 | 87 | 21.1 | 1046 |
| 5 | 7.40 | 1444 | -17 | 21.6 | 1041 |

| 11/14/2025 | 7:30 | Water Column Station (water depth 5') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.98 | 1507 | 163 | 20.2 | 1093 |
| 3 | 7.65 | 1500 | 120 | 19.7 | 1088 |
| 5 | 7.68 | 1497 | 139 | 21.5 | 1082 |

Table 3
**Central Lake Water Column Profile**
Sulphur Dome
Calcasieu Parish, Louisiana

| 11/21/2025 | 13:06 | Water Column Station (water depth 4.9') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.54 | 1568 | 98 | 26.2 | 1129 |
| 3 | 7.54 | 1560 | 110 | 26 | 1121 |
| 5 | 7.55 | 1574 | 69 | 25.4 | 1132 |

| 11/28/2025 | 7:30 | Water Column Station (water depth 4.9') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.51 | 1576 | 122 | 20.4 | 1144 |
| 3 | 7.49 | 1577 | 105 | 20.7 | 1148 |
| 5 | 7.47 | 1572 | 34 | 20.1 | 1142 |

| 12/5/2025 | 8:00 | Water Column Station (water depth 5.4') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.77 | 1495 | 231 | 11.6 | 1099 |
| 3 | 7.73 | 1497 | 219 | 11 | 1100 |
| 5 | 7.63 | 1494 | 48 | 10.8 | 1098 |

| 12/12/2025 | 7:30 | Water Column Station (water depth 5.4') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.78 | 1558 | 215 | 14.6 | 1139 |
| 3 | 7.61 | 1552 | 196 | 14.3 | 1134 |
| 5 | 7.46 | 1546 | 77 | 15.3 | 1129 |

| 12/19/2025 | 10:20 | Water Column Station (water depth 5.3') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 7.64 | 1598 | 115 | 14.8 | 1169 |
| 3 | 7.72 | 1595 | 118 | 14.8 | 1165 |
| 5 | 7.70 | 1597 | 100 | 16.2 | 1166 |

| 12/26/2025 | 9:20 | Water Column Station (water depth 5.4') | | | |
|---|---|---|---|---|---|
| Depth (ft) | pH | SC (uS/cm) | ORP (mV) | Temp (°C) | TDS (ppm) |
| 1 | 8.03 | 1633 | 228 | 19.1 | 1190 |
| 3 | 7.81 | 1631 | 203 | 18.9 | 1189 |
| 5 | 7.50 | 1628 | 80 | 18.2 | 1188 |

Notes:
Readings were recorded with an Ultrameter II, hand-held meter

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | LDNR 1 | | | | | | LDNR 3 | | | | | | LDNR 4 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | | | | | | | | | | | | | | | | |
| | Sample Date | 1/29/25 | 2/18/25 | 3/20/25 | 4/23/25 | 7/24/25 | 10/22/25 | 1/28/25 | 2/24/25 | 3/18/25 | 4/22/25 | 7/22/25 | 10/20/25 | 1/28/25 | 2/18/25 | 3/17/25 | 4/21/25 | 7/22/25 | 10/20/25 |
| | Sample Type | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Bubble Site** | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | **0.0052** | **0.0045** | **0.0060** | **0.0061** | **0.0060** | **0.0043** | **0.0040** | **0.0036** | **0.0035** | **0.0039** | **0.0041** | **0.0037** | **0.0041** | **0.0040** | **0.0055** | **0.0036** | **0.0042** | **0.0035** |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.0652** | **0.0568** | **0.0658** | **0.0459** | **0.0567** | **0.0688** | **0.054** | **0.0809** | **0.0553** | **0.0513** | **0.0389** | **0.0476** | **0.0429** | **0.0639** | **0.0267** | **0.0318** | **0.0302** | **0.0224** |
| Oxygen | mol% | **0.22** | **0.30** | **0.22** | **0.10** | **0.24** | **0.29** | **0.96** | **1.28** | **0.71** | **0.38** | **0.14** | **0.36** | **0.52** | **1.16** | **0.29** | **0.16** | **0.15** | **0.16** |
| Nitrogen | mol% | **3.54** | **2.91** | **3.50** | **2.42** | **3.13** | **3.53** | **3.44** | **4.82** | **2.75** | **2.34** | **1.99** | **3.23** | **2.64** | **5.03** | **1.46** | **1.74** | **1.71** | **1.41** |
| Carbon Dioxide | mol% | **2.73** | **1.55** | **1.75** | **2.73** | **2.51** | **6.02** | **1.54** | **1.15** | **1.18** | **1.75** | **2.55** | **2.74** | **1.21** | **1.36** | **1.35** | **1.51** | **2.47** | **1.91** |
| Methane | mol% | **91.32** | **93.01** | **92.33** | **92.45** | **91.84** | **88.24** | **93.00** | **91.40** | **94.29** | **94.44** | **94.24** | **92.59** | **93.81** | **90.69** | **95.09** | **94.76** | **93.87** | **94.69** |
| Ethane | mol% | **1.39** | **1.42** | **1.40** | **1.46** | **1.43** | **1.23** | **0.605** | **0.905** | **0.612** | **0.623** | **0.630** | **0.613** | **1.25** | **1.21** | **1.26** | **1.29** | **1.26** | **1.31** |
| Ethylene | mol% | **0.0002** | **0.0005** | **0.0005** | **0.0007** | **0.0006** | **0.0008** | **0.0104** | **0.0089** | **0.0116** | **0.0081** | **0.0096** | **0.0076** | **0.0319** | **0.0299** | **0.0305** | **0.0308** | **0.0244** | **0.0173** |
| Propane | mol% | **0.402** | **0.414** | **0.409** | **0.420** | **0.424** | **0.351** | **0.171** | **0.175** | **0.175** | **0.175** | **0.181** | **0.182** | **0.182** | **0.251** | **0.243** | **0.255** | **0.256** | **0.252** | **0.249** |
| Propylene | mol% | ND | ND | ND | ND | ND | **0.0001** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | **0.0977** | **0.100** | **0.100** | **0.102** | **0.102** | **0.0875** | **0.6510** | **0.0635** | **0.0671** | **0.0689** | **0.0674** | **0.0678** | **0.0757** | **0.0730** | **0.0770** | **0.0776** | **0.0758** | **0.0766** |
| N-butane | mol% | **0.101** | **0.104** | **0.104** | **0.108** | **0.108** | **0.0851** | **0.0535** | **0.0510** | **0.0552** | **0.0569** | **0.0554** | **0.0561** | **0.0677** | **0.0653** | **0.0691** | **0.0689** | **0.0673** | **0.0684** |
| Iso-pentane | mol% | **0.0403** | **0.0411** | **0.0419** | **0.0438** | **0.0455** | **0.0333** | **0.0306** | **0.0274** | **0.0316** | **0.0324** | **0.0340** | **0.0328** | **0.0300** | **0.0288** | **0.0306** | **0.0302** | **0.0325** | **0.0309** |
| N-pentane | mol% | **0.0279** | **0.0296** | **0.0296** | **0.0320** | **0.0318** | **0.0195** | **0.0223** | **0.0190** | **0.0232** | **0.0238** | **0.0230** | **0.0226** | **0.0208** | **0.0199** | **0.0213** | **0.0207** | **0.0205** | **0.0217** |
| Hexanes + | mol% | **0.0579** | **0.0591** | **0.0595** | **0.0755** | **0.0779** | **0.0387** | **0.0413** | **0.0301** | **0.0430** | **0.0417** | **0.0394** | **0.0449** | **0.0318** | **0.0292** | **0.0323** | **0.0282** | **0.0285** | **0.0314** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-39.03** | **-39.07** | **-39.02** | **-39.05** | **-38.96** | **-40.18** | **-34.24** | **-35.43** | **-34.21** | **-34.21** | **-34.28** | **-34.42** | **-37.19** | **-37.10** | **-37.04** | **-37.00** | **-36.95** | **-36.95** |
| $\delta D$ ($CH_4$) | ‰ | **-155.8** | **-153.4** | **-158.5** | **-156.3** | **-154.5** | **-166.8** | **-142.1** | **-147.0** | **-139.0** | **-146.1** | **-143.2** | **-146.5** | **-152.1** | **-148.0** | **-152.1** | **-149.2** | **-152.4** | **-154.3** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | **0.3** | **0.6** | **0.1** | **15.5** | **28.4** | **0.9** | **3.3** | **5.1** | <0.1 | **1.5** | **180.1** | **120.5** | **8.2** | **1.5** | **0.7** | **5.8** | **1,292.6** | **91.6** |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | LDNR 5 | | | | | | LDNR 6 | | | | | | LDNR 7 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | | | | | | | | | | | | | | | | |
| | Sample Date | 1/27/25 | 2/18/25 | 3/18/25 | 4/23/25 | 7/23/25 | 10/20/25 | 1/28/25 | 2/24/25 | 3/18/25 | 4/22/25 | 7/22/25 | 10/20/25 | 1/28/25 | 2/24/25 | 3/18/25 | 4/22/25 | 7/23/25 | 10/20/25 |
| | Sample Type | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | DG | Gas |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Bubble Site** | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | **0.0044** | **0.0044** | **0.0036** | **0.0037** | **0.0051** | **0.0037** | **0.0035** | **0.0040** | **0.0045** | **0.0037** | **0.0047** | **0.0041** | **0.0027** | **0.0041** | **0.0025** | **0.0032** | NA | **0.0032** |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.0788** | **0.0544** | **0.0455** | **0.0597** | **0.0544** | **0.0673** | **0.134** | **0.128** | **0.0794** | **0.0775** | **0.0646** | **0.0982** | **0.454** | **0.166** | **0.115** | **0.143** | **1.39** | **0.10** |
| Oxygen | mol% | **1.63** | **0.59** | **0.74** | **0.63** | **0.13** | **0.43** | **2.75** | **2.08** | **1.35** | **0.83** | **0.12** | **1.39** | **9.73** | **2.52** | **2.55** | **2.58** | **27.31** | **0.94** |
| Nitrogen | mol% | **3.93** | **2.63** | **2.27** | **2.78** | **2.69** | **3.32** | **5.95** | **7.47** | **3.89** | **3.70** | **3.20** | **6.18** | **34.01** | **9.11** | **5.71** | **6.86** | **68.94** | **5.52** |
| Carbon Dioxide | mol% | **0.48** | **0.97** | **1.02** | **0.95** | **1.63** | **1.29** | **0.20** | **0.60** | **0.74** | **1.02** | **1.75** | **1.33** | **0.20** | **0.49** | **0.29** | **0.33** | **1.02** | **1.26** |
| Methane | mol% | **92.34** | **94.19** | **94.37** | **93.99** | **93.97** | **93.37** | **89.90** | **88.65** | **92.80** | **93.24** | **93.71** | **89.86** | **53.57** | **85.09** | **88.05** | **86.85** | **1.32** | **88.70** |
| Ethane | mol% | **1.05** | **1.06** | **1.05** | **1.03** | **0.973** | **1.03** | **0.622** | **0.638** | **0.664** | **0.664** | **0.692** | **0.694** | **1.78** | **2.31** | **2.90** | **2.86** | **0.0111** | **3.08** |
| Ethylene | mol% | **0.0155** | **0.0186** | **0.0181** | **0.0614** | **0.0527** | **0.0056** | **0.0311** | **0.0331** | **0.0373** | **0.0394** | **0.0369** | **0.0331** | ND | ND | ND | ND | ND | ND |
| Propane | mol% | **0.263** | **0.268** | **0.267** | **0.273** | **0.267** | **0.258** | **0.206** | **0.202** | **0.215** | **0.217** | **0.218** | **0.207** | **0.144** | **0.188** | **0.236** | **0.228** | **0.0016** | **0.242** |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | **0.0768** | **0.0774** | **0.0775** | **0.0805** | **0.0788** | **0.0800** | **0.0812** | **0.0775** | **0.0830** | **0.0845** | **0.0837** | **0.0813** | **0.0387** | **0.0550** | **0.0619** | **0.0604** | ND | **0.0633** |
| N-butane | mol% | **0.0686** | **0.0690** | **0.0692** | **0.0729** | **0.0707** | **0.0707** | **0.0629** | **0.0599** | **0.0661** | **0.0673** | **0.0670** | **0.0656** | **0.0312** | **0.0354** | **0.0498** | **0.0476** | ND | **0.0526** |
| Iso-pentane | mol% | **0.0270** | **0.0266** | **0.0270** | **0.0284** | **0.0304** | **0.0284** | **0.0272** | **0.0249** | **0.0284** | **0.0286** | **0.0311** | **0.0281** | **0.0118** | **0.0166** | **0.0184** | **0.0175** | ND | **0.0193** |
| N-pentane | mol% | **0.0173** | **0.0168** | **0.0171** | **0.0181** | **0.0174** | **0.0178** | **0.0143** | **0.0129** | **0.0153** | **0.0154** | **0.0152** | **0.0153** | **0.0065** | **0.0065** | **0.0098** | **0.0092** | ND | **0.0106** |
| Hexanes + | mol% | **0.0241** | **0.0222** | **0.0224** | **0.0233** | **0.0241** | **0.0217** | **0.0144** | **0.0119** | **0.0155** | **0.0158** | **0.0158** | **0.0159** | **0.0116** | **0.0127** | **0.0141** | **0.0133** | ND | **0.0157** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-36.24** | **-36.19** | **-36.09** | **-35.86** | **-35.70** | **-35.58** | **-34.72** | **-34.93** | **-34.71** | **-34.67** | **-34.77** | **-34.63** | **-43.77** | **-42.50** | **-43.89** | **-43.88** | **-49.3** | **-44.29** |
| $\delta D$ ($CH_4$) | ‰ | **-149.9** | **-144.0** | **-151.2** | **-148.6** | **-147.8** | **-146.4** | **-145.0** | **-142.2** | **-145.8** | **-146.9** | **-145.1** | **-142.7** | **-178.1** | **-172.0** | **-183.6** | **-184.3** | NA | **-186.0** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | <0.1 | <0.1 | <0.1 | <0.1 | **281.4** | **0.4** | <0.1 | **0.3** | <0.1 | <0.1 | NA | **3.8** | <0.1 | <0.1 | <0.1 | <0.1 | NA | **1.1** |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | LDNR 8 | | | | | | LDNR 9 | | | | | | LDNR 10 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | | | | | | | | | | | | | | | | |
| | Sample Date | 1/28/25 | 2/24/25 | 3/19/25 | 4/22/25 | 7/23/25 | 10/21/25 | 1/28/25 | 2/19/25 | 3/19/25 | 4/23/25 | 7/24/25 | 10/22/25 | 1/30/25 | 2/19/25 | 3/20/25 | 4/24/25 | 7/24/25 | 10/23/25 |
| | Sample Type | Gas | Gas | Gas | Gas | DG | DG | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Bubble Site** | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | **0.0036** | ND | ND | **0.0032** | NA | NA | **0.0027** | **0.0035** | **0.0056** | **0.0027** | **0.0033** | ND | ND | ND | ND | ND | ND | ND |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.228** | **0.667** | **0.169** | **0.128** | **1.20** | **1.58** | **0.0681** | **0.0409** | **0.0444** | **0.0661** | **0.0444** | **0.157** | **0.93** | **0.938** | **0.935** | **0.334** | **0.939** | **0.935** |
| Oxygen | mol% | **4.74** | **14.24** | **3.22** | **1.71** | **43.26** | **17.99** | **0.94** | **0.49** | **0.44** | **0.69** | **0.31** | **3.01** | **20.89** | **21.18** | **21.02** | **5.36** | **21.03** | **20.99** |
| Nitrogen | mol% | **15.63** | **53.21** | **8.11** | **6.02** | **55.41** | **75.27** | **3.22** | **1.99** | **2.29** | **3.77** | **2.17** | **12.15** | **78.09** | **77.82** | **77.97** | **26.93** | **77.75** | **77.91** |
| Carbon Dioxide | mol% | **0.47** | **0.31** | **0.18** | **0.52** | **0.11** | **4.93** | **1.43** | **2.05** | **2.33** | **2.35** | **2.71** | **2.59** | **0.044** | **0.046** | **0.048** | **4.86** | **0.071** | **0.082** |
| Methane | mol% | **76.35** | **30.43** | **85.21** | **88.23** | **0.0167** | **0.231** | **93.61** | **94.67** | **94.15** | **92.37** | **93.97** | **81.41** | **0.0428** | **0.0132** | **0.0313** | **62.20** | **0.204** | **0.0863** |
| Ethane | mol% | **2.25** | **1.02** | **2.75** | **2.99** | ND | ND | **0.539** | **0.557** | **0.558** | **0.556** | **0.590** | **0.513** | **0.0002** | **0.0001** | ND | **0.291** | **0.0008** | **0.0002** |
| Ethylene | mol% | **0.0011** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Propane | mol% | **0.189** | **0.0786** | **0.216** | **0.235** | ND | ND | **0.0938** | **0.0960** | **0.0954** | **0.0950** | **0.0978** | **0.0862** | ND | ND | ND | **0.0062** | ND | ND |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | **0.0539** | **0.0214** | **0.0615** | **0.0660** | ND | ND | **0.0437** | **0.0441** | **0.0440** | **0.0449** | **0.0461** | **0.0400** | ND | ND | ND | **0.0091** | ND | ND |
| N-butane | mol% | **0.0425** | **0.0164** | **0.0471** | **0.0524** | ND | ND | **0.0131** | **0.0134** | **0.0133** | **0.0126** | **0.0131** | **0.0125** | ND | ND | ND | ND | ND | ND |
| Iso-pentane | mol% | **0.0171** | **0.0061** | **0.0185** | **0.0204** | ND | ND | **0.0106** | **0.0106** | **0.0106** | **0.0111** | **0.0145** | **0.0096** | ND | ND | ND | **0.0018** | ND | ND |
| N-pentane | mol% | **0.0097** | **0.0032** | **0.0099** | **0.0112** | ND | ND | **0.0029** | **0.0028** | **0.0028** | **0.0028** | **0.0027** | **0.0027** | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | **0.0137** | **0.0041** | **0.0134** | **0.0157** | ND | ND | **0.0245** | **0.0233** | **0.0232** | **0.0230** | **0.0279** | **0.0196** | **0.0004** | **0.0001** | **0.0003** | **0.0039** | **0.0002** | **0.0001** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-42.25** | **-43.60** | **-43.90** | **-43.96** | NA | NA | **-34.92** | **-34.97** | **-34.98** | **-35.09** | **-35.15** | **-35.50** | NA | NA | NA | **-35.37** | **-34.6** | **-28.1** |
| δD ($CH_4$) | ‰ | **-175.0** | **-177.0** | **-184.0** | **-182.9** | NA | NA | **-145.8** | **-142.1** | **-144.5** | **-147.5** | **-146.4** | **-147.5** | NA | NA | NA | **-149.4** | NA | NA |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | <0.1 | <0.1 | <0.1 | <0.1 | NA | NA | <0.1 | <0.1 | <0.1 | <0.1 | **0.6** | **0.4** | <0.1 | <0.1 | <0.1 | **284.6** | **0.1** | <0.1 |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | LDNR 12 | | | | | | LDNR 13 | | | | | | LDNR 14 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | | | | | | | | | | | | | | | | |
| | Sample Date | 1/28/25 | 2/19/25 | 3/18/25 | 4/22/25 | 7/23/25 | 10/21/25 | 1/28/25 | 2/19/25 | 3/18/25 | 4/23/25 | 7/22/25 | 10/21/25 | 1/30/25 | 2/19/25 | 3/18/25 | 4/23/25 | 7/22/25 | 10/21/25 |
| | Sample Type | Gas | Gas | Gas | Gas | DG | Gas | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Bubble Site** | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | **0.15** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | **0.0043** | **0.0044** | **0.0031** | **0.0025** | NA | **0.0027** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.149** | **0.174** | **0.130** | **0.093** | **1.31** | **0.139** | **1.50** | **1.65** | **1.44** | **1.98** | **1.52** | **1.54** | **1.5** | **1.63** | **1.41** | **1.56** | **1.52** | **1.41** |
| Oxygen | mol% | **2.78** | **2.22** | **2.89** | **1.62** | **38.33** | **0.94** | **31.55** | **22.55** | **34.90** | **0.55** | **12.57** | **21.72** | **32.97** | **22.89** | **36.20** | **25.18** | **22.80** | **20.39** |
| Nitrogen | mol% | **8.08** | **7.91** | **6.37** | **5.10** | **60.08** | **6.62** | **65.46** | **72.57** | **62.96** | **88.41** | **75.00** | **72.59** | **64.43** | **72.09** | **61.89** | **71.21** | **72.38** | **74.09** |
| Carbon Dioxide | mol% | **0.30** | **0.43** | **0.20** | **0.91** | **0.24** | **0.99** | **1.13** | **2.97** | **0.55** | **7.54** | **5.60** | **3.98** | **0.93** | **3.24** | **0.35** | **1.76** | **2.77** | **3.95** |
| Methane | mol% | **85.54** | **86.14** | **87.21** | **88.88** | **0.0457** | **87.77** | **0.343** | **0.113** | **0.159** | **1.52** | **5.31** | **0.176** | **0.175** | **0.138** | **0.140** | **0.287** | **0.524** | **0.160** |
| Ethane | mol% | **2.78** | **2.75** | **2.83** | **3.01** | ND | **3.15** | **0.0048** | **0.0015** | **0.0006** | **0.0009** | **0.0033** | ND | **0.004** | **0.0078** | **0.0019** | **0.0011** | **0.0049** | **0.0018** |
| Ethylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Propane | mol% | **0.218** | **0.220** | **0.220** | **0.235** | ND | **0.226** | **0.0007** | ND | ND | ND | ND | ND | **0.0006** | **0.0014** | ND | ND | ND | **0.0011** |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | **0.0602** | **0.0618** | **0.0604** | **0.0635** | ND | **0.0649** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-butane | mol% | **0.0459** | **0.0459** | **0.0455** | **0.0495** | ND | **0.0512** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-pentane | mol% | **0.0183** | **0.0179** | **0.0175** | **0.0188** | ND | **0.0205** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-pentane | mol% | **0.0096** | **0.0092** | **0.0090** | **0.0099** | ND | **0.0110** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | **0.0152** | **0.0130** | **0.0129** | **0.0141** | ND | **0.0159** | **0.0047** | **0.0023** | ND | ND | ND | ND | **0.0017** | ND | ND | ND | ND | **0.0009** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-43.74** | **-43.74** | **-43.79** | **-43.81** | NA | **-45.59** | **-46.60** | NA | NA | **-59.50** | **-61.17** | NA | NA | NA | NA | NA | **-41.9** | NA |
| $\delta D$ ($CH_4$) | ‰ | **-182.5** | **-180.6** | **-179.3** | **-184.0** | NA | **-191.1** | NA | NA | NA | NA | **-267** | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | <0.1 | <0.1 | <0.1 | <0.1 | NA | **0.1** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | LDNR 17 | | | | | | LDNR 18 | | | | | | LDNR 19 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | | | | | | | | | | | | | | | | |
| | Sample Date | 1/27/25 | 2/19/25 | 3/18/25 | 4/22/25 | 7/22/25 | 10/21/25 | 1/28/25 | 2/19/25 | 3/19/25 | 4/22/25 | 7/24/25 | 10/21/25 | 1/28/25 | 2/19/25 | 3/19/25 | 4/25/25 | 7/24/25 | 10/23/25 |
| | Sample Type | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Bubble Site** | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | **0.0027** | **0.0058** | **0.0046** | **0.0039** | **0.0092** | **0.0036** | **0.0034** | **0.0038** | **0.0066** | **0.0031** | **0.0042** | **0.0032** | ND | **0.0047** | **0.0032** | ND | **0.0028** | ND |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | **0.0121** | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.287** | **0.184** | **0.088** | **0.111** | **0.0604** | **0.0782** | **0.275** | **0.223** | **0.356** | **0.178** | **0.0873** | **0.0812** | **0.135** | **0.0923** | **0.134** | **0.0430** | **0.0603** | **0.939** |
| Oxygen | mol% | **5.89** | **2.55** | **1.31** | **1.67** | **0.17** | **0.45** | **5.64** | **3.30** | **6.83** | **3.33** | **0.20** | **0.54** | **1.99** | **1.24** | **2.19** | **0.38** | **0.65** | **20.71** |
| Nitrogen | mol% | **22.42** | **10.72** | **4.50** | **6.83** | **3.15** | **4.51** | **18.55** | **12.76** | **18.63** | **11.95** | **4.29** | **4.37** | **9.00** | **6.13** | **8.08** | **2.09** | **3.51** | **78.19** |
| Carbon Dioxide | mol% | **1.12** | **0.89** | **0.86** | **1.28** | **2.61** | **1.92** | **0.38** | **0.44** | **0.23** | **0.82** | **2.11** | **1.55** | **2.14** | **3.53** | **2.11** | **6.07** | **5.85** | **0.16** |
| Methane | mol% | **68.79** | **83.85** | **91.30** | **88.15** | **91.98** | **91.06** | **74.11** | **82.15** | **73.04** | **82.49** | **91.98** | **92.08** | **86.10** | **88.35** | **86.85** | **90.71** | **89.22** | **0.0091** |
| Ethane | mol% | **1.19** | **1.44** | **1.56** | **1.57** | **1.61** | **1.58** | **0.679** | **0.742** | **0.605** | **0.811** | **0.871** | **0.912** | **0.519** | **0.537** | **0.536** | **0.572** | **0.587** | ND |
| Ethylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0002** | ND | ND | ND | ND | ND | ND |
| Propane | mol% | **0.162** | **0.197** | **0.212** | **0.209** | **0.219** | **0.217** | **0.181** | **0.199** | **0.152** | **0.206** | **0.229** | **0.231** | **0.0489** | **0.0535** | **0.0438** | **0.0514** | **0.0458** | ND |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0001** | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | **0.0522** | **0.0653** | **0.0698** | **0.0682** | **0.0710** | **0.0717** | **0.0620** | **0.0680** | **0.0543** | **0.0684** | **0.0756** | **0.0770** | **0.0354** | **0.0366** | **0.0316** | **0.0381** | **0.0369** | ND |
| N-butane | mol% | **0.382** | **0.0470** | **0.0502** | **0.0497** | **0.0524** | **0.0534** | **0.0519** | **0.0554** | **0.0391** | **0.0581** | **0.0643** | **0.0664** | **0.0002** | **0.0017** | **0.0004** | **0.0003** | **0.0001** | ND |
| Iso-pentane | mol% | **0.0173** | **0.0219** | **0.0232** | **0.0225** | **0.0271** | **0.0249** | **0.0261** | **0.0264** | **0.0195** | **0.0278** | **0.0341** | **0.0326** | **0.0087** | **0.0091** | **0.0080** | **0.0097** | **0.0125** | ND |
| N-pentane | mol% | **0.0101** | **0.0127** | **0.0134** | **0.0130** | **0.0142** | **0.0147** | **0.0179** | **0.0172** | **0.0122** | **0.0188** | **0.0215** | **0.0232** | ND | **0.0004** | **0.0002** | **0.0001** | ND | ND |
| Hexanes + | mol% | **0.0152** | **0.0207** | **0.0205** | **0.0190** | **0.0231** | **0.0227** | **0.0314** | **0.0234** | **0.0173** | **0.0280** | **0.0328** | **0.0358** | **0.0179** | **0.0192** | **0.0215** | **0.0237** | **0.0309** | ND |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-39.23** | **-39.09** | **-39.00** | **-39.11** | **-39.01** | **-38.71** | **-35.99** | **-35.91** | **-35.45** | **-35.97** | **-36.07** | **-35.94** | **-36.55** | **-36.40** | **-36.54** | **-36.64** | **-36.92** | NA |
| $\delta D$ ($CH_4$) | ‰ | **156.3** | **-156.1** | **-156.7** | **-158.9** | **-158.1** | **-160.8** | **-148.9** | **-143.5** | **-144.3** | **-149.6** | **-148.3** | **-150.5** | **-149.3** | **-147.2** | **-153.0** | **-148.7** | **-152.4** | NA |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | **0.4** | <0.1 | <0.1 | <0.1 | **224.9** | **11.4** | <0.1 | <0.1 | <0.1 | <0.1 | **376.5** | **0.3** | **3.9** | **12.4** | <0.1 | **8.3** | **16.9** | NA |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | LDNR 21 | | | | | | LDNR 22 | | | | | | LDNR 23 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | | | | | | | | | | | | | | | | |
| | Sample Date | 1/28/25 | 2/24/25 | 3/19/25 | 4/22/25 | 7/24/25 | 10/21/25 | 1/28/25 | 2/19/25 | 3/19/25 | 4/22/25 | 7/24/25 | 10/21/25 | 1/28/25 | 2/24/25 | 3/20/25 | 4/22/25 | 7/24/25 | 10/20/25 |
| | Sample Type | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | DG | Gas |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Bubble Site** | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.26** | ND |
| Helium | mol% | **0.0046** | **0.0056** | **0.0041** | **0.0043** | **0.0045** | **0.0038** | **0.0038** | **0.0051** | **0.0056** | ND | **0.0030** | **0.0030** | **0.0066** | **0.0038** | **0.0035** | **0.0036** | NA | **0.0039** |
| Hydrogen | mol% | ND | ND | ND | ND | **0.0047** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.107** | **0.208** | **0.176** | **0.126** | **0.0733** | **0.121** | **0.145** | **0.200** | **0.0806** | **0.387** | **0.248** | **0.114** | **0.101** | **0.223** | **0.105** | **0.0760** | **1.76** | **0.0623** |
| Oxygen | mol% | **1.72** | **2.53** | **2.95** | **1.98** | **0.11** | **1.03** | **2.90** | **2.44** | **1.20** | **7.79** | **2.99** | **1.05** | **1.78** | **4.38** | **1.71** | **0.84** | **4.85** | **0.43** |
| Nitrogen | mol% | **5.27** | **9.66** | **8.01** | **6.76** | **3.52** | **6.37** | **9.44** | **8.91** | **3.93** | **28.43** | **14.22** | **6.53** | **4.79** | **15.28** | **5.40** | **3.48** | **83.67** | **3.07** |
| Carbon Dioxide | mol% | **1.12** | **0.58** | **0.41** | **1.53** | **4.01** | **2.04** | **0.49** | **0.44** | **0.51** | **0.46** | **0.97** | **1.65** | **0.33** | **0.47** | **0.33** | **0.78** | **4.14** | **1.29** |
| Methane | mol% | **90.69** | **86.06** | **87.45** | **88.51** | **91.19** | **89.37** | **85.35** | **86.36** | **92.43** | **61.69** | **79.67** | **87.97** | **91.39** | **78.35** | **90.87** | **93.10** | **5.29** | **93.35** |
| Ethane | mol% | **0.856** | **0.762** | **0.800** | **0.862** | **0.874** | **0.872** | **1.26** | **1.23** | **1.39** | **0.94** | **1.59** | **2.29** | **1.130** | **0.922** | **1.130** | **1.23** | **0.0290** | **1.31** |
| Ethylene | mol% | **0.0001** | ND | ND | ND | ND | ND | **0.0035** | **0.0016** | **0.0020** | **0.0015** | ND | ND | ND | **0.0009** | ND | ND | ND | ND |
| Propane | mol% | **0.1040** | **0.0919** | **0.100** | **0.113** | **0.0951** | **0.0894** | **0.207** | **0.204** | **0.225** | **0.147** | **0.172** | **0.216** | **0.225** | **0.187** | **0.227** | **0.237** | **0.0047** | **0.233** |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | **0.0599** | **0.0549** | **0.0572** | **0.0581** | **0.0589** | **0.0581** | **0.0679** | **0.0700** | **0.0741** | **0.0503** | **0.0523** | **0.0632** | **0.0781** | **0.0646** | **0.0774** | **0.0806** | **0.0012** | **0.0799** |
| N-butane | mol% | **0.0063** | **0.0040** | **0.0044** | **0.0089** | **0.0031** | **0.0039** | **0.0572** | **0.0552** | **0.0618** | **0.0388** | **0.0381** | **0.0501** | **0.0636** | **0.0526** | **0.0660** | **0.0700** | ND | **0.0690** |
| Iso-pentane | mol% | **0.0252** | **0.0212** | **0.0225** | **0.0232** | **0.0275** | **0.0239** | **0.0286** | **0.0284** | **0.0313** | **0.0211** | **0.0206** | **0.0228** | **0.0361** | **0.0280** | **0.0344** | **0.0366** | ND | **0.0376** |
| N-pentane | mol% | **0.0013** | **0.0004** | **0.0005** | **0.0020** | **0.0002** | **0.0008** | **0.0199** | **0.0189** | **0.0216** | **0.0137** | **0.0104** | **0.0141** | **0.0256** | **0.0193** | **0.0244** | **0.0265** | ND | **0.0277** |
| Hexanes + | mol% | **0.0289** | **0.0186** | **0.0226** | **0.0228** | **0.0272** | **0.0237** | **0.0334** | **0.0304** | **0.0369** | **0.0234** | **0.0156** | **0.0236** | **0.0371** | **0.0241** | **0.0300** | **0.0334** | **0.0016** | **0.0371** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-37.70** | **-37.56** | **-37.56** | **-37.53** | **-37.77** | **-37.74** | **-37.67** | **-37.59** | **-37.66** | **-37.66** | **-40.41** | **-42.58** | **-36.82** | **-36.31** | **-36.67** | **-36.65** | **-47.39** | **-37.13** |
| δD ($CH_4$) | ‰ | **-147.6** | **-142.4** | **-144.8** | **-146.6** | **-148.6** | **-137.6** | **-154.3** | **-154.7** | **-153.6** | **-153.2** | **-166.8** | **-174.6** | **-148.5** | **-149.0** | **-157.6** | **-155.1** | **-194.0** | **-152.6** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | <0.1 | <0.1 | <0.1 | **0.3** | **402.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | NA | **1** | <0.1 | <0.1 | <0.1 | <0.1 | NA | <0.1 |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | LDNR 24 | | | | | | LDNR 25 | | | | | | LDNR 26 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | | | | | | | | | | | | | | | | |
| | Sample Date | 1/28/25 | 2/18/25 | 3/17/25 | 4/21/25 | 7/22/25 | 11/17/25 | 1/28/25 | 2/24/25 | 3/18/25 | 4/23/25 | 7/23/25 | 10/21/25 | 1/28/25 | 2/17/25 | 3/17/25 | 4/21/25 | 7/22/25 | 11/17/25 |
| | Sample Type | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | DG | DG | DG | Gas | Gas | Gas | Gas | Gas | Gas |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Bubble Site** | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.25** | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | **0.0045** | **0.0057** | **0.0057** | **0.0034** | **0.0045** | **0.0037** | ND | **0.0030** | ND | NA | NA | NA | **0.0045** | **0.0063** | **0.0062** | **0.0048** | **0.0051** | **0.0047** |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.0469** | **0.0300** | **0.0369** | **0.106** | **0.0222** | **0.0279** | **0.138** | **0.197** | **0.0942** | **1.48** | **1.56** | **1.01** | **0.267** | **0.162** | **0.186** | **0.149** | **0.121** | **0.179** |
| Oxygen | mol% | **0.57** | **0.26** | **0.61** | **2.11** | **0.11** | **0.15** | **2.53** | **3.37** | **2.34** | **25.60** | **14.76** | **19.46** | **4.39** | **1.58** | **2.01** | **1.22** | **0.79** | **2.23** |
| Nitrogen | mol% | **2.88** | **1.76** | **1.87** | **8.44** | **1.28** | **1.47** | **6.48** | **9.79** | **4.35** | **71.19** | **77.20** | **78.58** | **19.42** | **9.36** | **10.74** | **8.58** | **6.73** | **10.95** |
| Carbon Dioxide | mol% | **1.82** | **2.29** | **1.66** | **2.32** | **3.05** | **2.75** | **0.60** | **0.42** | **1.87** | **1.44** | **4.40** | **0.91** | **1.07** | **0.62** | **0.56** | **1.25** | **1.59** | **0.82** |
| Methane | mol% | **93.27** | **94.22** | **94.38** | **85.70** | **94.08** | **94.07** | **87.98** | **84.16** | **89.75** | **0.283** | **1.84** | **0.0359** | **74.09** | **87.37** | **85.63** | **87.84** | **89.81** | **84.88** |
| Ethane | mol% | **0.832** | **0.854** | **0.844** | **0.807** | **0.878** | **0.922** | **2.03** | **1.83** | **1.59** | **0.0031** | ND | **0.0005** | **0.624** | **0.741** | **0.717** | **0.779** | **0.780** | **0.753** |
| Ethylene | mol% | **0.101** | **0.0979** | **0.100** | **0.0881** | **0.0842** | **0.0819** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Propane | mol% | **0.235** | **0.239** | **0.240** | **0.218** | **0.247** | **0.254** | **0.1390** | **0.138** | **0.0059** | **0.0009** | ND | **0.0002** | **0.0495** | **0.0615** | **0.0599** | **0.0637** | **0.0631** | **0.0623** |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | **0.0753** | **0.0762** | **0.0768** | **0.0692** | **0.0772** | **0.0795** | **0.0403** | **0.0417** | **0.0023** | ND | ND | ND | **0.0625** | **0.0787** | **0.0769** | **0.0798** | **0.0802** | **0.0787** |
| N-butane | mol% | **0.0673** | **0.0686** | **0.0691** | **0.0612** | **0.0690** | **0.0711** | **0.0308** | **0.0309** | **0.0013** | ND | ND | ND | **0.0019** | **0.0025** | **0.0025** | **0.0027** | **0.0029** | **0.0035** |
| Iso-pentane | mol% | **0.0329** | **0.0336** | **0.0342** | **0.0294** | **0.0364** | **0.0347** | **0.0123** | **0.0130** | **0.0004** | ND | ND | ND | **0.0120** | **0.0156** | **0.0151** | **0.0160** | **0.0188** | **0.0164** |
| N-pentane | mol% | **0.0251** | **0.0259** | **0.0265** | **0.0222** | **0.0262** | **0.0270** | **0.0067** | **0.0073** | **0.0002** | ND | ND | ND | ND | **0.0001** | **0.0001** | **0.0001** | **0.0001** | **0.0003** |
| Hexanes + | mol% | **0.0415** | **0.0443** | **0.0458** | **0.0325** | **0.0473** | **0.0459** | **0.0120** | **0.0100** | **0.0006** | ND | ND | **0.0002** | **0.0052** | **0.0065** | **0.0047** | **0.0070** | **0.0062** | **0.0078** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-35.48** | **-35.51** | **-35.44** | **-35.46** | **-35.47** | **-35.44** | **-52.62** | **-50.98** | **-68.47** | NA | **-45.4** | NA | **-38.03** | **-37.54** | **-37.93** | **-38.07** | **-37.95** | **-37.73** |
| $\delta D$ ($CH_4$) | ‰ | **-144.9** | **-144.1** | **-145.4** | **-147.9** | **-146.3** | **-150.1** | **-206.9** | **-197.6** | **-236.8** | NA | **-154** | NA | **-151.8** | **-148.7** | **-152.2** | **-149.5** | **-154.0** | **-155.2** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | **5.2** | **2.2** | **0.2** | **2.2** | **127.7** | <0.1 | <0.1 | <0.1 | <0.1 | NA | NA | NA | <0.1 | <0.1 | <0.1 | <0.1 | **0.2** | **0.3** |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | LDNR 27 | | | | | LDNR 28 | | | | | | SN 67269 | | | | | | SN 67270 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | | | | | | | | | | PPG 7A BS | | | | | | PPG 7B BS | | | | |
| | Sample Date | 2/19/25 | 3/20/25 | 4/24/25 | 7/24/25 | 10/23/25 | 1/30/25 | 2/19/25 | 3/20/25 | 4/24/25 | 7/24/25 | 10/23/25 | 1/27/25 | 2/18/25 | 3/20/25 | 4/24/25 | 7/24/25 | 10/23/25 | 1/27/25 | 2/19/25 | 3/19/25 | 4/23/25 | 10/23/25 |
| | Sample Type | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas | DG | DG | DG | DG | DG |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Bubble Site** | | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.005** | **0.0050** | ND | **0.0045** | ND | ND | NA | NA | NA | NA | NA |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0039** | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.934** | **0.937** | **0.945** | **0.940** | **0.936** | **0.93** | **0.932** | **0.935** | **0.926** | **0.943** | **0.941** | **0.0796** | **0.0441** | **0.933** | **0.0616** | **0.938** | **0.937** | **1.27** | **1.38** | **1.39** | **1.07** | **0.999** |
| Oxygen | mol% | **21.07** | **21.08** | **21.29** | **21.03** | **21.01** | **20.84** | **20.99** | **20.95** | **19.48** | **21.03** | **19.64** | **1.22** | **0.23** | **20.94** | **0.68** | **20.99** | **21.04** | **11.9** | **0.76** | **17.15** | **1.86** | **5.55** |
| Nitrogen | mol% | **77.95** | **77.94** | **77.71** | **77.96** | **77.99** | **78.01** | **78.03** | **77.93** | **76.23** | **77.90** | **78.52** | **5.65** | **3.03** | **77.81** | **4.20** | **77.78** | **77.82** | **54.42** | **59.49** | **60.98** | **46.89** | **60.60** |
| Carbon Dioxide | mol% | **0.042** | **0.044** | **0.049** | **0.069** | **0.070** | **0.061** | **0.047** | **0.084** | **0.68** | **0.12** | **0.79** | **0.063** | **0.10** | **0.043** | **0.11** | **0.070** | **0.070** | **3.52** | **2.97** | **1.69** | **3.09** | **1.14** |
| Methane | mol% | **0.0025** | **0.0005** | **0.0021** | **0.0017** | **0.0012** | **0.162** | **0.0050** | **0.101** | **2.68** | **0.0055** | **0.118** | **91.91** | **95.46** | **0.270** | **93.86** | **0.220** | **0.136** | **28.21** | **34.78** | **18.74** | **47.06** | **31.70** |
| Ethane | mol% | ND | ND | ND | ND | ND | **0.0007** | ND | **0.0005** | **0.0056** | ND | **0.0002** | **0.739** | **0.775** | **0.0022** | **0.753** | **0.0015** | **0.0011** | **0.561** | **0.592** | **0.0505** | **0.0279** | **0.0144** |
| Ethylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0001** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Propane | mol% | ND | ND | ND | ND | ND | **0.0002** | ND | **0.0002** | **0.0018** | ND | ND | **0.216** | **0.227** | **0.001** | **0.212** | **0.0004** | **0.0003** | **0.0985** | **0.0194** | ND | ND | ND |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | ND | ND | ND | ND | ND | **0.0001** | ND | **0.0002** | **0.0024** | ND | ND | **0.0750** | **0.0790** | **0.0003** | **0.0747** | **0.0002** | **0.0001** | **0.0091** | **0.0084** | ND | ND | ND |
| N-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | **0.0004** | ND | ND | **0.0256** | **0.0271** | **0.0001** | **0.0262** | ND | ND | **0.0098** | ND | ND | ND | ND |
| Iso-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | **0.0004** | ND | ND | **0.0059** | **0.0064** | ND | **0.0066** | ND | ND | **0.0012** | ND | ND | ND | ND |
| N-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0015** | **0.0017** | ND | **0.0018** | ND | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | **0.0002** | **0.0003** | **0.0001** | **0.0007** | **0.0001** | **0.0005** | **0.0001** | **0.0003** | **0.0002** | **0.0002** | **0.0002** | **0.0040** | **0.0062** | **0.0003** | **0.0045** | **0.0003** | **0.0001** | **0.0037** | **0.0024** | **0.0017** | ND | ND |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | NA | NA | NA | NA | NA | **-39.30** | NA | **-27.60** | **-25.51** | NA | **-29.7** | **-35.13** | **-35.15** | **-34.94** | **-34.90** | **-33.2** | **-32.6** | **-43.50** | **-42.86** | **-41.54** | **-42.34** | **-42.97** |
| $\delta D$ ($CH_4$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | **-107.0** | NA | NA | **-145.5** | **-143.0** | **-144.0** | **-144.1** | NA | NA | **-159.3** | **-150.7** | **-143.7** | **-145.9** | **-153.9** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | NA | <0.1 | <0.1 | **0.4** | <0.1 | NA | NA | NA | NA | NA |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | WW 11 | | | | | | | | WW 13 | | | | | | | | WW 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | 019-580 | | | | | | | | 019-582 | | | | | | | | 019-995 | | | | | | | | |
| | Sample Date | 1/30/25 | 2/17/25 | 3/18/25 | 4/24/25 | 5/15/25 | 9/17/25 | 11/18/25 | 12/16/25 | 1/30/25 | 2/17/25 | 3/20/25 | 7/22/25 | 8/20/25 | 9/16/25 | 11/19/25 | 12/16/25 | 2/17/25 | 3/18/25 | 4/24/25 | 5/15/25 | 7/22/25 | 8/20/25 | 9/16/25 | 11/18/25 | 12/17/25 |
| | Sample Type | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Industrial Water Wells** | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **1.68** | **1.70** | **1.81** | **1.47** | **1.68** | **1.65** | **1.68** | **1.72** | **1.12** | **1.13** | **1.83** | **1.60** | **1.67** | **1.71** | **1.71** | **1.72** | **1.61** | **1.85** | **1.72** | **1.75** | **1.64** | **1.68** | **1.72** | **1.73** | **1.82** |
| Oxygen | mol% | **3.58** | **3.83** | **1.73** | **9.00** | **4.80** | **4.40** | **4.95** | **4.45** | **2.06** | **0.97** | **2.20** | **8.70** | **6.02** | **4.06** | **3.52** | **4.25** | **4.44** | **1.80** | **5.14** | **3.79** | **8.18** | **6.56** | **5.93** | **4.04** | **8.62** |
| Nitrogen | mol% | **82.95** | **82.61** | **85.43** | **80.74** | **81.53** | **82.94** | **82.23** | **82.78** | **92.1** | **93.44** | **85.26** | **78.28** | **81.75** | **83.25** | **81.12** | **82.34** | **76.09** | **84.68** | **80.63** | **83.49** | **80.89** | **81.61** | **81.81** | **84.27** | **80.87** |
| Carbon Dioxide | mol% | **11.74** | **11.82** | **10.99** | **8.76** | **11.54** | **10.97** | **10.97** | **10.98** | **3.98** | **4.40** | **10.62** | **11.22** | **10.53** | **10.95** | **12.58** | **11.66** | **17.81** | **11.66** | **12.39** | **10.56** | **9.28** | **10.08** | **10.52** | **9.94** | **8.68** |
| Methane | mol% | **0.0483** | **0.0430** | **0.0527** | **0.0358** | **0.4380** | **0.0443** | **0.173** | **0.0688** | **0.733** | **0.0636** | **0.104** | **0.203** | **0.0328** | **0.0225** | **1.06** | **0.0273** | **0.0526** | **0.0167** | **0.118** | **0.412** | **0.0126** | **0.0677** | **0.0133** | **0.0141** | **0.0195** |
| Ethane | mol% | **0.0008** | **0.0007** | **0.0007** | **0.0006** | **0.001** | ND | ND | ND | **0.0012** | **0.0004** | ND | ND | ND | ND | **0.0038** | ND | ND | ND | ND | **0.0012** | ND | **0.0030** | ND | ND | ND |
| Ethylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Propane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | **0.0017** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0014** | ND | ND | ND |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | ND | **0.0017** | ND | ND | ND | **0.0017** | ND | **0.0061** | ND | **0.0005** | ND | ND | ND | ND | **0.0012** | **0.0010** | **0.0011** | ND | ND | ND | ND | ND | **0.0008** | **0.009** | **0.0008** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | NA | NA | NA | NA | **-59.90** | NA | NA | NA | **-90.40** | NA | NA | NA | NA | NA | **-69.5** | NA | NA | NA | NA | **-63.90** | NA | NA | NA | NA | NA |
| δD ($CH_4$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | **-377.0** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| Sample Location | | WW 19 | | | | | | | WW 40 | | | | | | | | Cottages Well | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | 019-1055 | | | | | | | 019-1603 | | | | | | | | 019-17636Z | | | | | | | |
| Sample Date | | 1/30/25 | 4/29/25 | 5/13/25 | 8/21/25 | 9/16/25 | 11/19/25 | 12/17/25 | 1/30/25 | 2/18/25 | 3/20/25 | 6/18/25 | 7/22/25 | 10/23/25 | 11/20/25 | 12/17/25 | 4/23/25 | 5/13/25 | 6/18/25 | 8/20/25 | 9/16/25 | 10/23/25 | 11/18/25 | 12/16/25 |
| Sample Type | | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG |
| Sampler | | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Industrial Water Wells** | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **1.74** | **1.69** | **1.59** | **1.67** | **1.75** | **1.72** | **1.75** | **1.65** | **1.57** | **1.65** | **1.55** | **1.52** | **1.56** | **1.65** | **1.69** | **1.50** | **1.58** | **1.68** | **1.64** | **1.65** | **1.58** | **1.66** | **1.64** |
| Oxygen | mol% | **2.38** | **2.69** | **6.04** | **7.38** | **6.24** | **4.66** | **4.03** | **4.21** | **5.30** | **5.07** | **8.43** | **8.88** | **7.00** | **2.98** | **6.79** | **11.60** | **7.01** | **5.71** | **6.75** | **5.80** | **6.27** | **4.39** | **7.51** |
| Nitrogen | mol% | **81.63** | **82.75** | **80.1** | **79.84** | **80.74** | **81.54** | **82.74** | **82.26** | **80.65** | **79.85** | **78.41** | **76.34** | **78.18** | **80.29** | **82.06** | **72.81** | **75.97** | **78.97** | **79.22** | **76.99** | **79.29** | **79.58** | **78.11** |
| Carbon Dioxide | mol% | **13.84** | **12.51** | **11.92** | **10.87** | **11.14** | **11.64** | **11.20** | **11.07** | **11.44** | **6.73** | **10.99** | **12.55** | **12.67** | **6.28** | **4.36** | **13.36** | **12.22** | **11.15** | **10.85** | **12.07** | **11.55** | **11.05** | **10.70** |
| Methane | mol% | **0.394** | **0.355** | **0.341** | **0.246** | **0.124** | **0.429** | **0.270** | **0.806** | **1.03** | **6.69** | **0.623** | **0.715** | **0.594** | **8.80** | **5.09** | **0.735** | **3.220** | **2.480** | **1.540** | **3.48** | **1.32** | **3.31** | **2.03** |
| Ethane | mol% | **0.0023** | **0.0026** | **0.0017** | **0.0009** | ND | **0.0016** | **0.0007** | **0.0036** | **0.0036** | **0.0096** | **0.0039** | **0.0036** | **0.0039** | **0.0064** | **0.0043** | ND | ND | ND | ND | **0.0009** | ND | ND | ND |
| Ethylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Propane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0010** | ND | ND | ND | **0.0008** | **0.0009** | ND | ND | ND | ND | ND | ND | ND | ND |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0006** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | ND | **0.0007** | **0.0008** | ND | **0.0011** | **0.0015** | **0.0011** | **0.0008** | **0.0006** | **0.0010** | **0.0008** | ND | **0.0008** | **0.0013** | **0.0013** | ND | ND | ND | ND | **0.0025** | ND | **0.0010** | ND |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-53.50** | **-46.9** | **-53.0** | NA | NA | **-63.0** | NA | **-61.50** | **-59.10** | **-86.25** | **-54.40** | **-56.2** | **-54.7** | **-95.12** | **-94.96** | **-76.9** | **-93.6** | **-89.0** | **-76.5** | **-92.5** | **-84.2** | **-90.3** | **-85.2** |
| $\delta D$ ($CH_4$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | **-246.4** | NA | NA | NA | **-314.4** | **-331.0** | NA | **-273.0** | **-242.0** | **-168.0** | **-265** | NA | **-248** | **-201** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Location** | | **MW-1** | | | | | | | | | | | | **MW-1** | | | | | | | | | | |
| **Sample ID** | | **MW-1-200** | | | | | | | | | | | | **MW-1-500** | | | | | | | | | | |
| **Sample Date** | | 1/29/25 | 2/18/25 | 3/17/25 | 4/22/25 | 5/13/25 | 6/19/25 | 7/21/25 | 8/20/25 | 9/15/25 | 10/23/25 | 11/17/25 | 12/15/25 | 1/29/25 | 2/18/25 | 3/17/25 | 4/22/25 | 5/13/25 | 6/19/25 | 7/21/25 | 8/20/25 | 9/16/25 | 10/22/25 | 11/19/25 | 12/16/25 |
| **Sample Type** | | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG |
| **Sampler** | | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Monitoring Wells** | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.326** | **0.336** | **0.352** | **0.398** | **0.348** | **0.355** | **0.370** | **0.347** | **0.355** | **0.352** | **0.348** | **0.345** | **1.01** | **0.948** | **1.01** | **0.967** | **0.961** | **1.05** | **1.06** | **1.05** | **1.09** | **1.16** | **1.16** | **1.24** |
| Oxygen | mol% | **0.97** | **1.34** | **1.47** | **3.05** | **1.68** | **2.14** | **2.74** | **1.96** | **1.88** | **1.52** | **1.95** | **1.76** | **2.42** | **3.54** | **3.14** | **10.54** | **10.66** | **5.63** | **8.18** | **5.09** | **4.05** | **4.83** | **5.14** | **4.29** |
| Nitrogen | mol% | **14.67** | **15.79** | **15.66** | **19.14** | **15.38** | **15.83** | **16.87** | **15.75** | **17.00** | **16.12** | **16.07** | **15.82** | **44.06** | **41.33** | **44.22** | **53.68** | **58.96** | **44.01** | **45.89** | **49.32** | **48.60** | **49.55** | **50.45** | **56.52** |
| Carbon Dioxide | mol% | **0.45** | **0.39** | **0.21** | **0.36** | **0.19** | **0.29** | **0.40** | **0.51** | **0.34** | **0.34** | **0.41** | **0.40** | **0.14** | **0.36** | **0.21** | **0.38** | **0.16** | **0.26** | **0.39** | **0.18** | **0.26** | **0.27** | **0.26** | **0.16** |
| Methane | mol% | **83.55** | **82.11** | **82.28** | **77.03** | **82.37** | **81.35** | **79.59** | **81.41** | **80.39** | **81.63** | **81.19** | **81.64** | **52.36** | **53.82** | **51.43** | **34.43** | **29.26** | **49.04** | **44.48** | **44.36** | **46.00** | **44.19** | **42.99** | **37.79** |
| Ethane | mol% | **0.0324** | **0.0315** | **0.0296** | **0.0277** | **0.0320** | **0.0316** | **0.0311** | **0.0328** | **0.0307** | **0.0313** | **0.0317** | **0.0317** | **0.0009** | **0.0011** | **0.0006** | **0.0006** | ND | **0.0005** | ND | ND | **0.0005** | ND | **0.0005** | ND |
| Ethylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Propane | mol% | ND | **0.002** | ND | ND | ND | **0.0002** | ND | ND | **0.0002** | ND | **0.0002** | **0.0002** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | **0.0006** | **0.0004** | ND | **0.0002** | **0.0002** | ND | ND | ND | **0.0004** | ND | ND | **0.0012** | ND | ND | ND | **0.0005** | **0.0005** | **0.0012** | ND | ND | **0.0019** | ND | **0.0005** | **0.0010** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-56.61** | **-56.55** | **-56.50** | **-56.43** | **-56.75** | **-56.76** | **-56.31** | **-56.49** | **-56.54** | **-56.54** | **-56.59** | **-56.52** | **-67.96** | **-65.85** | **-64.60** | **-64.42** | **-64.76** | **-63.65** | **-63.08** | **-63.09** | **-63.31** | **-63.79** | **-63.96** | **-64.81** |
| δD ($CH_4$) | ‰ | **-194.9** | **-190.5** | **-194.0** | **-197.8** | **-192.3** | **-200.4** | **-197.2** | **-199.4** | **-201.9** | **-200.0** | **-196.3** | **-195.8** | **-314.6** | **-300.2** | **-302.5** | **-295.9** | **-301.2** | **-307.5** | **-294.8** | **-307.0** | **-308.4** | **-305.1** | **-300.9** | **-307.8** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | na | NA |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| Sample Location | | MW-1 | | | | | | | | | | | | MW-2 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | MW-1-700 | | | | | | | | | | | | MW-2-200 | | | | | | | | | | | |
| Sample Date | | 1/29/25 | 2/18/25 | 3/18/25 | 4/22/25 | 5/13/25 | 6/19/25 | 7/22/25 | 8/20/25 | 9/16/25 | 10/22/25 | 11/19/25 | 12/16/25 | 1/28/25 | 2/19/25 | 3/19/25 | 4/23/25 | 5/15/25 | 6/18/25 | 7/22/25 | 8/21/25 | 9/17/25 | 10/23/25 | 11/19/25 | 12/18/25 |
| Sample Type | | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG |
| Sampler | | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Monitoring Wells** | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **1.29** | **1.28** | **1.39** | **1.23** | **1.19** | **1.29** | **1.28** | **1.32** | **1.28** | **1.50** | **1.46** | **1.42** | **0.213** | **0.257** | **0.254** | **0.294** | **0.303** | **0.411** | **0.389** | **0.404** | **0.438** | **0.349** | **0.318** | **0.350** |
| Oxygen | mol% | **2.82** | **1.98** | **1.59** | **4.60** | **6.27** | **5.35** | **6.21** | **5.57** | **7.71** | **2.64** | **4.29** | **2.91** | **0.87** | **2.00** | **1.17** | **3.39** | **2.37** | **6.31** | **5.33** | **3.65** | **4.26** | **2.75** | **2.24** | **2.16** |
| Nitrogen | mol% | **55.91** | **56.83** | **57.22** | **55.67** | **64.04** | **61.45** | **59.50** | **61.75** | **66.32** | **64.81** | **64.58** | **66.22** | **7.08** | **9.41** | **8.64** | **11.78** | **13.50** | **18.29** | **15.38** | **19.95** | **17.64** | **13.91** | **13.08** | **13.74** |
| Carbon Dioxide | mol% | **0.054** | **0.071** | **0.075** | **0.086** | **0.023** | **0.054** | **0.067** | **0.055** | **0.050** | **0.036** | **0.045** | **0.038** | **0.069** | **0.16** | **0.18** | **0.12** | **0.31** | **0.17** | **0.21** | **0.22** | **0.37** | **0.66** | **0.65** | **0.62** |
| Methane | mol% | **39.91** | **39.83** | **39.72** | **38.40** | **28.47** | **31.85** | **32.94** | **31.30** | **24.65** | **31.01** | **29.62** | **29.40** | **91.68** | **88.09** | **89.68** | **84.35** | **83.47** | **74.75** | **78.63** | **75.73** | **77.25** | **82.28** | **83.66** | **83.09** |
| Ethane | mol% | **0.0031** | **0.0035** | **0.0030** | **0.0031** | **0.0024** | **0.0023** | **0.0021** | **0.0022** | **0.0018** | **0.0020** | **0.0022** | **0.0021** | **0.0818** | **0.0794** | **0.0720** | **0.0742** | **0.0512** | **0.0629** | **0.0589** | **0.0447** | **0.0446** | **0.0470** | **0.0505** | **0.0427** |
| Ethylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Propane | mol% | ND | ND | ND | ND | **0.0007** | ND | ND | ND | ND | ND | ND | ND | **0.0016** | **0.0015** | **0.0011** | **0.0011** | **0.0005** | **0.0008** | **0.0006** | **0.0003** | **0.0004** | ND | **0.0002** | **0.0003** |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | **0.0015** | **0.0018** | **0.0016** | **0.0017** | **0.0016** | **0.0014** | **0.0016** | ND | **0.0011** | **0.0013** | **0.0015** | **0.0014** | **0.0002** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-butane | mol% | ND | ND | ND | ND | **0.0006** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | **0.0021** | ND | ND | **0.0007** | **0.0021** | ND | ND | ND | **0.0006** | ND | **0.0008** | **0.0008** | **0.0003** | ND | ND | **0.0005** | ND | ND | ND | ND | **0.0008** | ND | **0.0002** | **0.0003** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-88.29** | **-86.93** | **-86.35** | **-85.30** | **-84.07** | **-81.69** | **-81.48** | **-79.81** | **-80.13** | **-78.29** | **-77.53** | **-78.87** | **-49.12** | **-48.78** | **-48.74** | **-48.64** | **-50.16** | **-50.08** | **-50.03** | **-50.24** | **-50.84** | **-50.90** | **-51.00** | **-51.39** |
| $\delta D$ ($CH_4$) | ‰ | **-290.6** | **-286.3** | **-285.0** | **-283.8** | **-284.5** | **-295.4** | **-290.2** | **-286.2** | **-294.2** | **-288.2** | **-288.6** | **-284.1** | **-180.0** | **-175.8** | **-179.8** | **-182.6** | **-181.9** | **-187.0** | **-188.7** | **-188.5** | **-189.7** | **-190.8** | **-189.7** | **-191.5** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | MW-2 | | | | | | | | | | | MW-2 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | MW-2-500 | | | | | | | | | | | MW-2-700 | | | | | | | | | | |
| | Sample Date | 1/28/25 | 2/19/25 | 4/23/25 | 5/15/25 | 6/18/25 | 7/24/25 | 8/21/25 | 9/16/25 | 10/23/25 | 11/20/25 | 12/18/25 | 1/28/25 | 2/19/25 | 3/19/25 | 4/23/25 | 5/15/25 | 6/18/25 | 7/22/25 | 8/21/25 | 9/17/25 | 10/22/25 | 11/19/25 | 12/18/25 |
| | Sample Type | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Monitoring Wells** | | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **1.28** | **1.26** | **1.40** | **1.11** | **1.16** | **1.25** | **1.23** | **1.30** | **1.35** | **1.42** | **1.33** | **1.61** | **1.87** | **1.73** | **1.72** | **1.14** | **1.64** | **1.63** | **1.54** | **1.52** | **1.54** | **1.39** | **1.45** |
| Oxygen | mol% | **2.09** | **1.34** | **6.05** | **5.01** | **5.57** | **7.74** | **3.71** | **5.93** | **3.31** | **4.28** | **9.47** | **4.42** | **0.16** | **5.09** | **3.88** | **14.03** | **6.60** | **7.84** | **4.46** | **4.32** | **3.36** | **4.00** | **3.10** |
| Nitrogen | mol% | **52.36** | **56.68** | **62.38** | **54.88** | **52.17** | **64.44** | **59.39** | **57.25** | **60.45** | **65.62** | **61.18** | **87.14** | **86.40** | **84.17** | **80.34** | **80.12** | **76.31** | **73.08** | **73.49** | **70.53** | **68.25** | **67.21** | **66.27** |
| Carbon Dioxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methane | mol% | **44.25** | **40.70** | **30.16** | **38.99** | **41.09** | **26.56** | **35.66** | **35.51** | **34.88** | **28.67** | **28.01** | **6.82** | **11.55** | **9.00** | **14.05** | **4.70** | **15.45** | **17.45** | **20.50** | **23.61** | **26.84** | **27.39** | **29.18** |
| Ethane | mol% | **0.0069** | **0.0056** | **0.0037** | **0.0045** | **0.0053** | **0.0039** | **0.0040** | **0.0044** | **0.0045** | **0.0039** | **0.0038** | **0.0038** | **0.0043** | **0.0040** | **0.0048** | **0.0021** | **0.0046** | **0.0042** | **0.0040** | **0.0046** | **0.0044** | **0.0047** | **0.0047** |
| Ethylene | mol% | **0.0005** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0010** | **0.0012** | **0.0009** | **0.0008** | **0.0003** | **0.0007** | **0.0007** | **0.0006** | **0.0009** | **0.0008** | **0.0005** | **0.0005** |
| Propane | mol% | **0.0011** | **0.0010** | ND | **0.0007** | **0.0007** | **0.0006** | **0.0006** | ND | **0.0006** | **0.0005** | ND | **0.0010** | **0.0014** | **0.0012** | **0.0012** | **0.0004** | **0.0011** | **0.0010** | **0.0010** | **0.0010** | **0.0009** | **0.0009** | **0.0011** |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | **0.0029** | **0.0028** | **0.0021** | **0.0021** | **0.0022** | **0.0019** | **0.0021** | **0.0016** | **0.0017** | **0.0018** | **0.0013** | **0.0014** | **0.0022** | **0.0017** | **0.0018** | **0.0005** | **0.0016** | **0.0012** | **0.0013** | **0.0015** | **0.0012** | **0.0014** | **0.0013** |
| N-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0115** | ND | ND | ND |
| N-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | **0.0031** | **0.0005** | **0.0011** | ND | ND | **0.0010** | ND | **0.0013** | ND | **0.008** | **0.0011** | **0.0008** | ND | ND | **0.0017** | ND | ND | ND | ND | **0.0011** | ND | **0.0014** | **0.0006** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-73.32** | **-75.23** | **-76.48** | **-74.79** | **-75.41** | **-75.90** | **-76.68** | **-76.93** | **-77.41** | **-77.85** | **-76.50** | **-75.32** | **-76.73** | **-75.55** | **-76.70** | **-74.23** | **-78.46** | **-80.25** | **-81.60** | **-82.44** | **-83.29** | **-82.87** | **-81.56** |
| $\delta D$ ($CH_4$) | ‰ | **-313.0** | **-312.0** | **-297.6** | **-293.6** | **-310.4** | **-304.1** | **-305.8** | **-313.1** | **-307.4** | **-309.0** | **-302.2** | **-234.6** | **-242.7** | **-253.6** | **-258.1** | **-252.7** | **-271.6** | **-284.5** | **-297.0** | **-303.0** | **-311.2** | **-303.1** | **-308.5** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Location** | | **MW-3** | | | | | | | | | | | | **MW-3** | | | | | | | | | | |
| **Sample ID** | | **MW-3-200** | | | | | | | | | | | | **MW-3-500** | | | | | | | | | | |
| **Sample Date** | | 1/27/25 | 2/17/25 | 3/18/25 | 4/22/25 | 5/14/25 | 6/17/25 | 7/23/25 | 8/19/25 | 9/25/25 | 10/21/25 | 11/18/25 | 12/16/25 | 1/28/25 | 2/17/25 | 3/18/25 | 4/21/25 | 5/14/25 | 6/17/25 | 7/23/25 | 7/24/25 | 8/19/25 | 9/18/25 | 10/20/25 | 11/18/25 | 12/16/25 |
| **Sample Type** | | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG |
| **Sampler** | | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Monitoring Wells** | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **0.396** | **0.205** | **0.234** | **0.284** | **0.491** | **0.477** | **0.284** | **0.365** | **0.237** | **0.219** | **0.238** | **0.258** | **0.868** | **0.830** | **0.769** | **0.892** | **0.884** | **0.892** | **0.903** | **0.637** | **0.586** | **0.693** | **0.607** | **0.813** | **0.258** |
| Oxygen | mol% | **6.50** | **0.75** | **1.55** | **3.42** | **5.16** | **8.84** | **4.45** | **1.67** | **2.78** | **2.16** | **3.13** | **3.64** | **13.34** | **2.41** | **0.057** | **5.15** | **5.80** | **6.48** | **6.69** | **0.072** | **0.096** | **3.86** | **0.081** | **0.23** | **3.64** |
| Nitrogen | mol% | **28.95** | **7.05** | **9.23** | **12.72** | **29.82** | **34.64** | **11.15** | **15.72** | **10.32** | **9.55** | **10.09** | **10.82** | **65.03** | **38.36** | **39.36** | **38.20** | **43.58** | **38.46** | **40.52** | **24.29** | **26.65** | **28.52** | **36.43** | **35.35** | **10.82** |
| Carbon Dioxide | mol% | **0.13** | **0.12** | **0.27** | **0.26** | ND | **0.091** | **0.45** | **0.11** | **0.77** | **0.66** | **0.75** | **0.62** | ND | ND | **1.00** | ND | ND | ND | ND | **1.26** | **3.11** | ND | **3.58** | ND | **0.62** |
| Methane | mol% | **63.99** | **91.82** | **88.67** | **83.27** | **64.48** | **55.93** | **83.62** | **82.10** | **85.85** | **87.37** | **85.74** | **84.61** | **20.54** | **57.78** | **58.22** | **55.16** | **49.21** | **53.59** | **51.35** | **73.00** | **68.81** | **66.17** | **58.68** | **62.90** | **84.61** |
| Ethane | mol% | **0.0364** | **0.0524** | **0.0530** | **0.0462** | **0.0395** | **0.0315** | **0.0481** | **0.0456** | **0.0461** | **0.0491** | **0.0521** | **0.0492** | **0.190** | **0.545** | **0.534** | **0.528** | **0.491** | **0.514** | **0.499** | **0.656** | **0.684** | **0.656** | **0.566** | **0.612** | **0.0492** |
| Ethylene | mol% | **0.0003** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0008** | **0.0018** | **0.0011** | **0.0022** | **0.0019** | **0.0020** | **0.0018** | **0.0013** | **0.0006** | **0.0017** | ND | **0.0020** | ND |
| Propane | mol% | ND | ND | ND | ND | **0.0003** | ND | ND | ND | ND | ND | ND | ND | **0.0079** | **0.0237** | **0.0239** | **0.0197** | **0.0127** | **0.0177** | **0.0165** | **0.0324** | **0.0384** | **0.0353** | **0.0261** | **0.0340** | ND |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0036** | **0.0143** | **0.0149** | **0.0132** | **0.0007** | **0.0127** | **0.0120** | **0.0112** | **0.0195** | **0.0149** | **0.0204** | **0.0165** | ND |
| N-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0003** | **0.0010** | **0.0010** | **0.0008** | ND | **0.0007** | **0.0007** | **0.0009** | **0.0013** | **0.0011** | **0.0010** | **0.0012** | ND |
| Iso-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0005** | **0.0005** | ND | ND | ND | ND | **0.0004** | **0.0008** | **0.0005** | **0.0007** | **0.0006** | ND |
| N-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | **0.0009** | **0.0009** | ND | ND | ND | ND | ND | ND | **0.0003** | ND | **0.0004** | **0.0013** | **0.0122** | **0.0276** | **0.0249** | **0.0336** | **0.008** | **0.0351** | **0.0069** | **0.0462** | **0.0074** | **0.0455** | **0.0053** | **0.0358** | **0.0013** |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-47.37** | **-47.29** | **-47.09** | **-47.19** | **-46.85** | **-46.88** | **-46.91** | **-46.75** | **-46.81** | **-47.13** | **-47.27** | **-47.11** | **-44.91** | **-44.98** | **-44.54** | **-44.66** | **-44.78** | **-44.71** | **-44.54** | **-44.15** | **-43.92** | **-43.86** | **-44.27** | **-43.71** | **-47.11** |
| δD ($CH_4$) | ‰ | **-182.9** | **-191.0** | **-194.3** | **-183.9** | **-182.3** | **-188.9** | **-190.9** | **-191.7** | **-192.7** | **-191.5** | **-188.9** | **-197.6** | **-151.8** | **-149.5** | **-155.0** | **-152.2** | **-149.6** | **-157.4** | **-152.7** | **-155.9** | **-154.9** | **-156.2** | **-153.4** | **-153.0** | **-197.6** |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 4
**Gas Data Summary**
Sulphur Dome
Calcasieu Parish, Louisiana

| | Sample Location | MW-3 | | | | | | | | | | | | PPG-2 | PPG-4 | BCKGRD ATM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | MW-3-700 | | | | | | | | | | | | | | | | | | | |
| | Sample Date | 12/17/24 | 1/28/25 | 2/18/25 | 3/19/25 | 4/21/25 | 5/14/25 | 6/17/25 | 8/20/25 | 9/17/25 | 10/21/25 | 11/18/25 | 12/17/25 | 10/20/25 | 10/20/25 | 1/30/25 | 2/19/25 | 3/19/25 | 4/24/25 | 7/24/25 | 10/23/25 |
| | Sample Type | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | DG | Gas | Gas | Gas | Gas | Gas | Gas | Gas | Gas |
| | Sampler | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM | ERM |
| **Component** | **Units** | **Monitoring Wells** | | | | | | | | | | | | **Oil Wells** | | **Background Atomosphere** | | | | | |
| Carbon Monoxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Helium | mol% | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND |
| Hydrogen | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.409** | **0.0042** | ND | ND | ND | ND | ND | ND |
| Argon | mol% | **1.21** | **1.20** | **1.19** | **1.26** | **1.16** | **1.01** | **1.21** | **1.29** | **1.33** | **0.940** | **1.23** | **1.20** | **0.501** | **0.231** | **0.931** | **0.937** | **0.936** | **0.941** | **0.941** | **0.938** |
| Oxygen | mol% | **3.67** | **5.06** | **3.78** | **3.51** | **6.19** | **13.48** | **6.97** | **7.07** | **8.77** | **9.03** | **4.22** | **4.54** | **0.60** | **0.071** | **20.91** | **21.15** | **21.10** | **21.21** | **21.16** | **21.07** |
| Nitrogen | mol% | **54.75** | **57.78** | **53.77** | **50.11** | **51.21** | **69.57** | **56.52** | **57.69** | **60.72** | **59.45** | **55.39** | **52.84** | **52.73** | **17.77** | **78.11** | **77.87** | **77.92** | **77.72** | **77.84** | **77.88** |
| Carbon Dioxide | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | **1.07** | **0.044** | ND | **1.42** | **0.12** | **0.044** | **0.044** | **0.043** | **0.070** | **0.053** | **0.065** |
| Methane | mol% | **40.32** | **35.91** | **41.21** | **45.07** | **41.40** | **15.92** | **35.27** | **33.92** | **29.15** | **29.48** | **39.08** | **41.38** | **43.04** | **78.04** | **0.0003** | **0.0021** | **0.0012** | **0.0585** | **0.0010** | **0.0443** |
| Ethane | mol% | **0.0432** | **0.0385** | **0.0392** | **0.0411** | **0.0363** | **0.0151** | **0.0329** | **0.0322** | **0.0245** | **0.0321** | **0.0278** | **0.0274** | **0.394** | **0.758** | ND | ND | ND | **0.0016** | ND | **0.0004** |
| Ethylene | mol% | **0.0005** | **0.0004** | **0.0006** | **0.0007** | **0.0007** | ND | **0.0006** | **0.0008** | **0.0010** | ND | **0.0014** | **0.0027** | **0.0004** | ND | ND | ND | ND | ND | ND | ND |
| Propane | mol% | **0.0037** | **0.0032** | **0.0032** | **0.0031** | **0.0029** | **0.0012** | **0.0029** | **0.0027** | **0.0020** | **0.0028** | **0.0029** | **0.0029** | **0.195** | **0.989** | ND | ND | ND | **0.0003** | ND | ND |
| Propylene | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0005** | **0.0005** | **0.0002** | ND | ND | ND | ND | ND | ND | ND |
| Iso-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0905** | **0.240** | ND | ND | ND | **0.0001** | ND | ND |
| N-butane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.230** | **0.712** | ND | ND | ND | **0.0001** | ND | ND |
| Iso-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.106** | **0.268** | ND | ND | ND | ND | ND | ND |
| N-pentane | mol% | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.127** | **0.344** | ND | ND | ND | ND | ND | ND |
| Hexanes + | mol% | ND | **0.0013** | ND | **0.0006** | ND | ND | ND | ND | **0.0010** | ND | **0.0018** | **0.0029** | **0.157** | **0.455** | **0.0002** | ND | **0.0004** | **0.0003** | **0.0002** | ND |
| **Stable Isotopes** | | | | | | | | | | | | | | | | | | | | | |
| $\delta^{13}C$ ($CH_4$) | ‰ | **-63.22** | **-62.39** | **-62.41** | **-62.31** | **-62.65** | **-62.73** | **-63.20** | **-64.68** | **-65.47** | **-73.51** | **-72.90** | **-72.36** | **-40.03** | **-33.73** | NA | NA | NA | **-35.60** | NA | NA |
| $\delta D$ ($CH_4$) | ‰ | **-266.2** | **-276.8** | **-278.8** | **-279.4** | **-271.5** | **269.4** | **-285.4** | **-287.0** | **-285.4** | **-256.4** | **-300.4** | **-318.7** | **-149.9** | **-146.5** | NA | NA | NA | NA | NA | NA |
| $\delta^{13}C$ ($CO_2$) | ‰ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Hydrogen Sulfide** | | | | | | | | | | | | | | | | | | | | | |
| Hydrogen Sulfide | ppmw | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.1 | <0.1 | <0.1 | **0.7** | <0.1 | <0.1 |

Notes:
**Bolded** values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
**Survey Results and Groundwater Elevations**
Sulphur Dome
Calcasieu Parish, Louisiana

| | | | | | | | | | | | | | 1/27/2025 | | | 2/17/2025 | | | 3/17/2025 | | | 4/21/2025 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Well ID** | **UTM X** | **UTM Y** | **Screened Interval** | **Screen Length** | **Top of Casing Elevation** | **Ground Elevation** | **Stickup** | **Total Depth** | **Mid Screen** | **Mid Screen Elevation** | **TDS** | **Calcuated Density** | **DTW** | **Water Elevation** | **EFWH** | **DTW** | **Water Elevation** | **EFWH** | **DTW** | **Water Elevation** | **EFWH** | **DTW** | **Water Elevation** | **EFWH** |
| | m | m | ft bgs | ft | ft | ft | ft | ft btoc | ft bgs | ft | mg/L | kg/m$^3$ | ft btoc | ft | ft | ft btoc | ft | ft | ft btoc | ft | ft | ft btoc | ft | ft |
| MW-1-200 | 460257.857 | 3347201.961 | 162-172 | 10 | 12.75 | 9.22 | 3.53 | 175.81 | 167 | -158.06 | 328 | 998.434 | 23.68 | -10.93 | -10.90 | 23.55 | -10.80 | -10.77 | 23.21 | -10.46 | -10.43 | 22.88 | -10.13 | -10.10 |
| MW-1-500 | 460260.314 | 3347203.590 | 503-513 | 10 | 12.11 | 9.30 | 2.81 | 515.90 | 508 | -498.79 | 296 | 998.411 | 55.16 | -43.05 | -42.95 | 55.19 | -43.08 | -42.98 | 54.33 | -42.22 | -42.12 | 53.69 | -41.58 | -41.48 |
| MW-1-700 | 460262.682 | 3347205.242 | 694-674 | 10 | 12.17 | 9.26 | 2.91 | 708.40 | 699 | -691.23 | 494 | 998.553 | 54.52 | -42.35 | -42.12 | 54.54 | -42.37 | -42.14 | 53.69 | -41.52 | -41.29 | 53.10 | -40.93 | -40.70 |
| MW-2-200 | 460190.048 | 3346592.350 | 230-240 | 10 | 14.56 | 11.40 | 3.16 | 243.06 | 235 | -223.50 | 260 | 998.386 | 47.99 | -33.43 | -33.40 | 48.07 | -33.51 | -33.48 | 47.75 | -33.19 | -33.16 | 47.34 | -32.78 | -32.75 |
| MW-2-500 | 460186.918 | 3346593.844 | 502-512 | 10 | 14.61 | 11.51 | 3.10 | 515.10 | 507 | -495.49 | 296 | 998.411 | 59.49 | -44.88 | -44.78 | 59.52 | -44.91 | -44.81 | 58.29 | -43.68 | -43.58 | 58.05 | -43.44 | -43.34 |
| MW-2-700 | 460198.229 | 3346589.473 | 680-690 | 10 | 14.69 | 11.09 | 3.60 | 694.60 | 685 | -674.91 | 594 | 998.624 | 59.44 | -44.75 | -44.48 | 59.47 | -44.78 | -44.51 | 59.30 | -44.61 | -44.34 | 58.02 | -43.33 | -43.06 |
| MW-3-200 | 460555.076 | 3346638.627 | 228-238 | 10 | 14.74 | 12.04 | 2.70 | 242.69 | 233 | -222.95 | 552 | 998.594 | 53.18 | -38.44 | -38.37 | 53.40 | -38.66 | -38.59 | 52.85 | -38.11 | -38.04 | 52.32 | -37.58 | -37.51 |
| MW-3-500 | 460555.867 | 3346635.699 | 464-474 | 10 | 15.08 | 11.64 | 3.44 | 475.95 | 469 | -455.87 | 2,220 | 999.786 | 58.65 | -43.57 | -42.92 | 58.62 | -43.54 | -42.88 | 57.42 | -42.34 | -41.68 | 57.18 | -42.10 | -41.44 |
| MW-3-700 | 460557.858 | 3346628.300 | 680-690 | 10 | 14.41 | 11.53 | 2.88 | 695.38 | 685 | -675.97 | 4,320 | 1,001.286 | 58.66 | -44.25 | -42.30 | 58.57 | -44.16 | -42.21 | 57.35 | -42.94 | -40.98 | 57.07 | -42.66 | -40.70 |

| | | | | | | | | | | | | | 5/13/2025 | | | 6/19/2025 | | | 7/21/2025 | | | 8/19/2025 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Well ID** | **UTM X** | **UTM Y** | **Screened Interval** | **Screen Length** | **Top of Casing Elevation** | **Ground Elevation** | **Stickup** | **Total Depth** | **Mid Screen** | **Mid Screen Elevation** | **TDS** | **Calcuated Density** | **DTW** | **Water Elevation** | **EFWH** | **DTW** | **Water Elevation** | **EFWH** | **DTW** | **Water Elevation** | **EFWH** | **DTW** | **Water Elevation** | **EFWH** |
| | m | m | ft bgs | ft | ft | ft | ft | ft btoc | ft bgs | ft | mg/L | kg/m$^3$ | ft btoc | ft | ft | ft btoc | ft | ft | ft btoc | ft | ft | ft btoc | ft | ft |
| MW-1-200 | 460257.857 | 3347201.961 | 162-172 | 10 | 12.75 | 9.22 | 3.53 | 175.81 | 167 | -158.06 | 328 | 998.434 | 22.40 | -9.65 | -9.62 | 22.29 | -9.54 | -9.51 | 22.45 | -9.70 | -9.67 | 22.70 | -9.95 | -9.92 |
| MW-1-500 | 460260.314 | 3347203.590 | 503-513 | 10 | 12.11 | 9.30 | 2.81 | 515.90 | 508 | -498.79 | 296 | 998.411 | 52.92 | -40.81 | -40.71 | 54.47 | -42.36 | -42.26 | 56.24 | -44.13 | -44.03 | 55.65 | -43.54 | -43.44 |
| MW-1-700 | 460262.682 | 3347205.242 | 694-674 | 10 | 12.17 | 9.26 | 2.91 | 708.40 | 699 | -691.23 | 494 | 998.553 | 52.34 | -40.17 | -39.94 | 53.91 | -41.74 | -41.51 | 55.56 | -43.39 | -43.16 | 55.00 | -42.83 | -42.60 |
| MW-2-200 | 460190.048 | 3346592.350 | 230-240 | 10 | 14.56 | 11.40 | 3.16 | 243.06 | 235 | -223.50 | 260 | 998.386 | 46.90 | -32.34 | -32.31 | 47.04 | -32.48 | -32.45 | 47.45 | -32.89 | -32.86 | 47.45 | -32.89 | -32.86 |
| MW-2-500 | 460186.918 | 3346593.844 | 502-512 | 10 | 14.61 | 11.51 | 3.10 | 515.10 | 507 | -495.49 | 296 | 998.411 | 57.14 | -42.53 | -42.43 | 58.76 | -44.15 | -44.05 | 60.60 | -45.99 | -45.89 | 59.65 | -45.04 | -44.94 |
| MW-2-700 | 460198.229 | 3346589.473 | 680-690 | 10 | 14.69 | 11.09 | 3.60 | 694.60 | 685 | -674.91 | 594 | 998.624 | 57.13 | -42.44 | -42.17 | 58.74 | -44.05 | -43.78 | 60.50 | -45.81 | -45.54 | 59.71 | -45.02 | -44.75 |
| MW-3-200 | 460555.076 | 3346638.627 | 228-238 | 10 | 14.74 | 12.04 | 2.70 | 242.69 | 233 | -222.95 | 552 | 998.594 | 51.68 | -36.94 | -36.87 | 52.20 | -37.46 | -37.39 | 52.91 | -38.17 | -38.10 | 53.25 | -38.51 | -38.44 |
| MW-3-500 | 460555.867 | 3346635.699 | 464-474 | 10 | 15.08 | 11.64 | 3.44 | 475.95 | 469 | -455.87 | 2,220 | 999.786 | 56.45 | -41.37 | -40.71 | 58.13 | -43.05 | -42.39 | 59.90 | -44.82 | -44.17 | 59.19 | -44.11 | -43.46 |
| MW-3-700 | 460557.858 | 3346628.300 | 680-690 | 10 | 14.41 | 11.53 | 2.88 | 695.38 | 685 | -675.97 | 4,320 | 1,001.286 | 56.28 | -41.87 | -39.91 | 57.83 | -43.42 | -41.46 | 59.53 | -45.12 | -43.17 | 58.71 | -44.30 | -42.35 |

| | | | | | | | | | | | | | 9/15/2025 | | | 10/20/2025 | | | 11/17/2025 | | | 12/15/2025 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Well ID** | **UTM X** | **UTM Y** | **Screened Interval** | **Screen Length** | **Top of Casing Elevation** | **Ground Elevation** | **Stickup** | **Total Depth** | **Mid Screen** | **Mid Screen Elevation** | **TDS** | **Calcuated Density** | **DTW** | **Water Elevation** | **EFWH** | **DTW** | **Water Elevation** | **EFWH** | **DTW** | **Water Elevation** | **EFWH** | **DTW** | **Water Elevation** | **EFWH** |
| | m | m | ft bgs | ft | ft | ft | ft | ft btoc | ft bgs | ft | mg/L | kg/m$^3$ | ft btoc | ft | ft | ft btoc | ft | ft | ft btoc | ft | ft | ft btoc | ft | ft |
| MW-1-200 | 460257.857 | 3347201.961 | 162-172 | 10 | 12.75 | 9.22 | 3.53 | 175.81 | 167 | -158.06 | 328 | 998.434 | 22.56 | -9.81 | -9.78 | 23.21 | -10.46 | -10.43 | 23.49 | -10.74 | -10.71 | 23.66 | -10.91 | -10.88 |
| MW-1-500 | 460260.314 | 3347203.590 | 503-513 | 10 | 12.11 | 9.30 | 2.81 | 515.90 | 508 | -498.79 | 296 | 998.411 | 55.90[a] | -43.79 | -43.69 | 56.18 | -44.07 | -43.97 | 56.63 | -44.52 | -44.42 | 55.62 | -43.51 | -43.41 |
| MW-1-700 | 460262.682 | 3347205.242 | 694-674 | 10 | 12.17 | 9.26 | 2.91 | 708.40 | 699 | -691.23 | 494 | 998.553 | 54.97 | -42.80 | -42.57 | 55.38 | -43.21 | -42.98 | 55.61 | -43.44 | -43.21 | 55.29 | -43.12 | -42.89 |
| MW-2-200 | 460190.048 | 3346592.350 | 230-240 | 10 | 14.56 | 11.40 | 3.16 | 243.06 | 235 | -223.50 | 260 | 998.386 | 47.70 | -33.14 | -33.11 | 47.95 | -33.39 | -33.36 | 48.24 | -33.68 | -33.65 | 49.75 | -35.19 | -35.16 |
| MW-2-500 | 460186.918 | 3346593.844 | 502-512 | 10 | 14.61 | 11.51 | 3.10 | 515.10 | 507 | -495.49 | 296 | 998.411 | 59.66 | -45.05 | -44.95 | 60.51 | -45.90 | -45.80 | 60.32 | -45.71 | -45.61 | 60.12 | -45.51 | -45.41 |
| MW-2-700 | 460198.229 | 3346589.473 | 680-690 | 10 | 14.69 | 11.09 | 3.60 | 694.60 | 685 | -674.91 | 594 | 998.624 | 59.64 | -44.95 | -44.68 | 60.55 | -45.86 | -45.59 | 60.33 | -45.64 | -45.37 | 59.89 | -45.20 | -44.93 |
| MW-3-200 | 460555.076 | 3346638.627 | 228-238 | 10 | 14.74 | 12.04 | 2.70 | 242.69 | 233 | -222.95 | 552 | 998.594 | 55.42 | -40.68 | -40.61 | 53.75 | -39.01 | -38.94 | 53.97 | -39.23 | -39.16 | 54.52 | -39.78 | -39.71 |
| MW-3-500 | 460555.867 | 3346635.699 | 464-474 | 10 | 15.08 | 11.64 | 3.44 | 475.95 | 469 | -455.87 | 2,220 | 999.786 | 59.15 | -44.07 | -43.42 | 60.08 | -45.00 | -44.35 | 59.71 | -44.63 | -43.98 | 59.08 | -44.00 | -43.35 |
| MW-3-700 | 460557.858 | 3346628.300 | 680-690 | 10 | 14.41 | 11.53 | 2.88 | 695.38 | 685 | -675.97 | 4,320 | 1,001.286 | 58.69 | -44.28 | -42.33 | 59.63 | -45.22 | -43.27 | 59.26 | -44.85 | -42.90 | 58.72 | -44.31 | -42.36 |

Notes:
Coordinates, Top of Casing Elevation, and Ground elevation data from Mayeux Surveying.
All elevation data are referenced to NAVD '88 datum.
Depth to water (DTW) measurements are shown as depth below top of casing (btoc).
Density is calculated using Langevin, et al., 2003.
ft bgs = feet below ground surface
EFWH = Equivalent fresh water head (corrected for density based on TDS), based on Post, et al., 2007.
[a] - Water level collected prior to sampling

# ATTACHMENT 1 LABORATORY REPORTS

# Certificate of Analysis

Number: 1030-25100796-001A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-06
Sample Date: 10/20/2025 13:30
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 3.8 | ppmw | | MG | 10/31/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-002A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-07
Sample Date: 10/20/2025 14:00
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 1.1 | ppmw | | MG | 10/31/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100796-003A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: PPG-07A-BS
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 10/28/2025 15:42:39 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/23/2025 13:30
Received Date: 10/24/2025

## Analytical Data

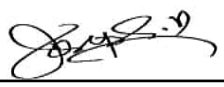
| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 99.474 | 99.639 | | GPM TOTAL C2+ | 0.000 |
| Methane | 0.467 | 0.268 | | GPM TOTAL C3+ | 0.000 |
| Carbon Dioxide | 0.059 | 0.093 | | GPM TOTAL iC5+ | 0.000 |
| Ethane | NIL | NIL | NIL | | |
| Propane | NIL | NIL | NIL | | |
| Iso-butane | NIL | NIL | NIL | | |
| n-Butane | NIL | NIL | NIL | | |
| Iso-pentane | NIL | NIL | NIL | | |
| n-Pentane | NIL | NIL | NIL | | |
| Hexanes Plus | NIL | NIL | NIL | | |
| | 100.000 | 100.000 | 0.000 | | |

| **Calculated Physical Properties** | **Total** |
|---|---|
| Relative Density Real Gas | 0.9655 |
| Calculated Molecular Weight | 27.97 |
| Compressibility Factor | 0.9997 |

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft³ @ 14.696 psia & 60°F**

| | |
|---|---|
| Real Gas Dry BTU | 5 |
| Water Sat. Gas Base BTU | 5 |



Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-003A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: PPG-07A-BS
Sample Date: 10/23/2025 13:30
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | <0.1 | ppmw | | MG | 11/02/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-004A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: BCKGRD-ATM
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 10/28/2025 16:19:17 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/23/2025 09:45
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 99.916 | 99.868 | | GPM TOTAL C2+ | 0.000 |
| Methane | NIL | NIL | | GPM TOTAL C3+ | 0.000 |
| Carbon Dioxide | 0.084 | 0.132 | | GPM TOTAL iC5+ | 0.000 |
| Ethane | NIL | NIL | NIL | | |
| Propane | NIL | NIL | NIL | | |
| Iso-butane | NIL | NIL | NIL | | |
| n-Butane | NIL | NIL | NIL | | |
| Iso-pentane | NIL | NIL | NIL | | |
| n-Pentane | NIL | NIL | NIL | | |
| Hexanes Plus | NIL | NIL | NIL | | |
| | 100.000 | 100.000 | 0.000 | | |

| Calculated Physical Properties | Total |
|---|---|
| Relative Density Real Gas | 0.9676 |
| Calculated Molecular Weight | 28.03 |
| Compressibility Factor | 0.9997 |

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft³ @ 14.696 psia & 60°F**

| | |
|---|---|
| Real Gas Dry BTU | NIL |
| Water Sat. Gas Base BTU | NIL |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

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# Certificate of Analysis

Number: 1030-25100796-004A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: BCKGRD-ATM
Sample Date: 10/23/2025 09:45
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | <0.1 | ppmw | | MG | 11/02/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-005A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-01
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 16:48:08 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/22/2025 15:30
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 5.639 | 8.420 | | GPM TOTAL C2+ | 0.530 |
| Methane | 86.740 | 74.174 | | GPM TOTAL C3+ | 0.208 |
| Carbon Dioxide | 5.755 | 13.500 | | GPM TOTAL iC5+ | 0.055 |
| Ethane | 1.206 | 1.933 | 0.322 | | |
| Propane | 0.348 | 0.818 | 0.096 | | |
| Iso-butane | 0.089 | 0.276 | 0.029 | | |
| n-Butane | 0.088 | 0.273 | 0.028 | | |
| Iso-pentane | 0.036 | 0.138 | 0.013 | | |
| n-Pentane | 0.021 | 0.081 | 0.008 | | |
| Hexanes Plus | 0.078 | 0.387 | 0.034 | | |
| | 100.000 | 100.000 | 0.530 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6489 | 3.2176 |
| Calculated Molecular Weight | 18.76 | 93.19 |
| Compressibility Factor | 0.9979 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 920 | 5129 |
| Water Sat. Gas Base BTU | 904 | 5040 |

**Comments:** Reran Sample Confirmed GC Analysis

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-005A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-01
Sample Date: 10/22/2025 15:30
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 0.9 | ppmw | | MG | 11/02/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100796-006A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-27
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 17:27:43 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/23/2025
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 99.949 | 99.920 | | GPM TOTAL C2+ | 0.000 |
| Methane | NIL | NIL | | GPM TOTAL C3+ | 0.000 |
| Carbon Dioxide | 0.051 | 0.080 | | GPM TOTAL iC5+ | 0.000 |
| Ethane | NIL | NIL | NIL | | |
| Propane | NIL | NIL | NIL | | |
| Iso-butane | NIL | NIL | NIL | | |
| n-Butane | NIL | NIL | NIL | | |
| Iso-pentane | NIL | NIL | NIL | | |
| n-Pentane | NIL | NIL | NIL | | |
| Hexanes Plus | NIL | NIL | NIL | | |
| | 100.000 | 100.000 | 0.000 | | |

| **Calculated Physical Properties** | **Total** |
|---|---|
| Relative Density Real Gas | 0.9674 |
| Calculated Molecular Weight | 28.02 |
| Compressibility Factor | 0.9997 |

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft³ @ 14.696 psia & 60°F**

| | |
|---|---|
| Real Gas Dry BTU | NIL |
| Water Sat. Gas Base BTU | NIL |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-006A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-27
Sample Date: 10/23/2025
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | <0.1 | ppmw | | MG | 11/02/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-007A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-28
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 17:50:28 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/23/2025 10:15
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 98.974 | 98.398 | | GPM TOTAL C2+ | 0.000 |
| Methane | NIL | NIL | | GPM TOTAL C3+ | 0.000 |
| Carbon Dioxide | 1.026 | 1.602 | | GPM TOTAL iC5+ | 0.000 |
| Ethane | NIL | NIL | NIL | | |
| Propane | NIL | NIL | NIL | | |
| Iso-butane | NIL | NIL | NIL | | |
| n-Butane | NIL | NIL | NIL | | |
| Iso-pentane | NIL | NIL | NIL | | |
| n-Pentane | NIL | NIL | NIL | | |
| Hexanes Plus | NIL | NIL | NIL | | |
| | 100.000 | 100.000 | 0.000 | | |

| **Calculated Physical Properties** | **Total** |
|---|---|
| Relative Density Real Gas | 0.9728 |
| Calculated Molecular Weight | 28.18 |
| Compressibility Factor | 0.9997 |

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft³ @ 14.696 psia & 60°F**

| | |
|---|---|
| Real Gas Dry BTU | NIL |
| Water Sat. Gas Base BTU | NIL |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-007A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-28
Sample Date: 10/23/2025 10:15
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | <0.1 | ppmw | | MG | 11/02/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-008A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-10
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 18:20:36 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/25/2025 10:10
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 99.941 | 99.907 | | GPM TOTAL C2+ | 0.000 |
| Methane | NIL | NIL | | GPM TOTAL C3+ | 0.000 |
| Carbon Dioxide | 0.059 | 0.093 | | GPM TOTAL iC5+ | 0.000 |
| Ethane | NIL | NIL | NIL | | |
| Propane | NIL | NIL | NIL | | |
| Iso-butane | NIL | NIL | NIL | | |
| n-Butane | NIL | NIL | NIL | | |
| Iso-pentane | NIL | NIL | NIL | | |
| n-Pentane | NIL | NIL | NIL | | |
| Hexanes Plus | NIL | NIL | NIL | | |
| | 100.000 | 100.000 | 0.000 | | |

| **Calculated Physical Properties** | **Total** |
|---|---|
| Relative Density Real Gas | 0.9674 |
| Calculated Molecular Weight | 28.02 |
| Compressibility Factor | 0.9997 |

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft³ @ 14.696 psia & 60°F**

| | |
|---|---|
| Real Gas Dry BTU | NIL |
| Water Sat. Gas Base BTU | NIL |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-008A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-10
Sample Date: 10/25/2025 10:10
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | <0.1 | ppmw | | MG | 11/02/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100796-009A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-05
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 18:42:07 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/20/2025 14:40
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia |
|---|---|---|---|
| Nitrogen | 5.748 | 9.266 | |
| Methane | 91.620 | 84.577 | |
| Carbon Dioxide | 1.156 | 2.927 | |
| Ethane | 0.988 | 1.709 | 0.264 |
| Propane | 0.257 | 0.652 | 0.071 |
| Iso-butane | 0.083 | 0.278 | 0.027 |
| n-Butane | 0.073 | 0.244 | 0.023 |
| Iso-pentane | 0.026 | 0.108 | 0.010 |
| n-Pentane | 0.020 | 0.083 | 0.007 |
| Hexanes Plus | 0.029 | 0.156 | 0.013 |
| | 100.000 | 100.000 | 0.415 |

| | |
|---|---|
| GPM TOTAL C2+ | 0.415 |
| GPM TOTAL C3+ | 0.151 |
| GPM TOTAL iC5+ | 0.030 |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6010 | 3.2176 |
| Calculated Molecular Weight | 17.38 | 93.19 |
| Compressibility Factor | 0.9980 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 960 | 5129 |
| Water Sat. Gas Base BTU | 943 | 5040 |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100796-009A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-05
Sample Date: 10/20/2025 14:40
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 0.4 | ppmw | | MG | 11/02/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# SPL, Inc.
## Analysis Request Chain of Custody Record

| | | | |
|---|---|---|---|
| SPL Work Order No.: | Acct. Mate Code: | Dept. Code | Page 1 of Pages |

| | | | |
|---|---|---|---|
| Report To: (Company Name): ERM | Project/Station Name: | Project/Station Number: | Project/Station Location: |
| Address: 840 W. Sam Houston Pkwy N #600 | Special Instructions: | | Requested TAT* |
| City/State/Zip: Houston, TX TX 77024 | | | |
| Contact/Email: Scott Himes Scott.Himes@ERM.com | Indicate Billing Type: (Place "X", where appropriate) Net 30 day Acct. | Check # | |
| Phone: 281-600-1000 Fax: | Credit Card | <<<Contact SPL, Inc for CC payment arrangements. | * Surcharges May Apply (See quote for details) |
| Invoice To: (Company Name): SAME | † Terms: Cylinders will be rented for $10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost. | Requested Analysis (Place an "X" next to Sample ID below) | |
| Address: | | | |
| City/State/Zip: | | | |
| Contact/Email: | | | |
| Phone: Fax: | | | |
| Client PO# or Ref. No.: 0801006 | | | |
| Contract/Proposal #: (i.e. SPLQ####) | | | |

| Sample ID (used to log/track sample) | Sample Date | Sample Time | Sample Type (Gas/Liq /Solid) | Duplicate | Composite | Spot | Cylinder Tracking Info† Cylinder # | Date Out | Date In | AS - D - 5504 - H2S | GPA - 2201 - C6+ | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LDNR-6 | 10/20/25 | 1330 | GAS | | X | | | | | X | X | |
| LDNR-7 | 10/20/25 | 1400 | X | | X | | | | | X | X | |
| ~~PPG-4 DS~~ | 10/23/25 | 0945 | X | X | ● | | | | | | | |
| PPG-1 DS | | 1350 | X | | X | | | | | X | X | |
| PPG-7A BS | ~~10/23/25~~ | ~~0930~~ | | | | | | | | X | X | |
| Bkgrd-ATM | 10/23/25 | 0945 | | | | | | | | X | X | |
| LDNR-1 | 10/22/25 | 1530 | | | | | | | | X | X | |
| LDNR-27 | 10/23/25 | 1000 | | | | | | | | X | X | |
| LDNR-28 | 10/23/25 | 1015 | | | | | | | | X | X | |
| LDNR-10 | 10/23/25 | 1010 | | | | | | | | X | X | |
| LDNR-5 | 10/20/25 | 1440 | | | | | | | | X | Y | |

| | | | | | |
|---|---|---|---|---|---|
| Sampled By-Print Name: David Sanguinetti | | Received By-Company: | | | |
| Signature: | | | | | |
| Relinquished By-Print Name: Zedric Cox | Date: 10/24/25 | Time: 9:30 | Received By-Print Name: | Date: 10-24-25 | Time: |
| Signature: | | | Signature: | | |
| Relinquished By-Print Name: | Date: | Time: | Received By-Print Name: | Date: | Time: |
| Signature: | | | Signature: | | |
| Relinquished By-Print Name: | Date: | Time: | Received By-Print Name: | Date: | Time: |
| Signature: | | | Signature: | | |

| | | | | | |
|---|---|---|---|---|---|
| Choose SPL Facility>>> | Corporate HQ - Houston, TX | Ship to Address: | 8820 Interchange Dr., Houston,TX 77054 | Phone: | 713.660.0901 |

Please contact one of our offices above for the form to be e-mailed to you.

# Certificate of Analysis

Number: 1030-25100797-001A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-17
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 19:43:36 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/21/2025 08:40
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 4.741 | 7.589 | | GPM TOTAL C2+ | 0.554 |
| Methane | 91.478 | 83.863 | | GPM TOTAL C3+ | 0.137 |
| Carbon Dioxide | 1.784 | 4.487 | | GPM TOTAL iC5+ | 0.033 |
| Ethane | 1.560 | 2.680 | 0.417 | | |
| Propane | 0.222 | 0.559 | 0.061 | | |
| Iso-butane | 0.076 | 0.252 | 0.025 | | |
| n-Butane | 0.057 | 0.189 | 0.018 | | |
| Iso-pentane | 0.028 | 0.115 | 0.010 | | |
| n-Pentane | 0.018 | 0.074 | 0.007 | | |
| Hexanes Plus | 0.036 | 0.192 | 0.016 | | |
| | 100.000 | 100.000 | 0.554 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6052 | 3.2176 |
| Calculated Molecular Weight | 17.50 | 93.19 |
| Compressibility Factor | 0.9980 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 967 | 5129 |
| Water Sat. Gas Base BTU | 951 | 5040 |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-001A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-17
Sample Date: 10/21/2025 08:40
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 11.4 | ppmw | | MG | 11/05/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-002A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-12
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 20:07:17 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/21/2025 08:50
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 9.410 | 14.642 | | GPM TOTAL C2+ | 0.951 |
| Methane | 86.194 | 76.803 | | GPM TOTAL C3+ | 0.123 |
| Carbon Dioxide | 0.897 | 2.193 | | GPM TOTAL iC5+ | 0.022 |
| Ethane | 3.097 | 5.172 | 0.828 | | |
| Propane | 0.226 | 0.554 | 0.062 | | |
| Iso-butane | 0.067 | 0.216 | 0.022 | | |
| n-Butane | 0.054 | 0.174 | 0.017 | | |
| Iso-pentane | 0.021 | 0.084 | 0.008 | | |
| n-Pentane | 0.012 | 0.048 | 0.004 | | |
| Hexanes Plus | 0.022 | 0.114 | 0.010 | | |
| | 100.000 | 100.000 | 0.951 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6226 | 3.2176 |
| Calculated Molecular Weight | 18.00 | 93.19 |
| Compressibility Factor | 0.9981 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 939 | 5129 |
| Water Sat. Gas Base BTU | 923 | 5040 |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-002A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-12
Sample Date: 10/21/2025 08:50
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | <0.1 | ppmw | | MG | 11/05/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100797-003A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-18
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 20:26:46 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/21/2025 08:30
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 5.410 | 8.697 | | GPM TOTAL C2+ | 0.395 |
| Methane | 91.754 | 84.474 | | GPM TOTAL C3+ | 0.158 |
| Carbon Dioxide | 1.448 | 3.657 | | GPM TOTAL iC5+ | 0.045 |
| Ethane | 0.886 | 1.529 | 0.237 | | |
| Propane | 0.234 | 0.592 | 0.064 | | |
| Iso-butane | 0.081 | 0.270 | 0.026 | | |
| n-Butane | 0.074 | 0.247 | 0.023 | | |
| Iso-pentane | 0.035 | 0.145 | 0.013 | | |
| n-Pentane | 0.023 | 0.095 | 0.008 | | |
| Hexanes Plus | 0.055 | 0.294 | 0.024 | | |
| | 100.000 | 100.000 | 0.395 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6026 | 3.2176 |
| Calculated Molecular Weight | 17.43 | 93.19 |
| Compressibility Factor | 0.9980 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 960 | 5129 |
| Water Sat. Gas Base BTU | 944 | 5040 |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-003A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-18
Sample Date: 10/21/2025 08:30
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 0.3 | ppmw | | MG | 11/07/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-004A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

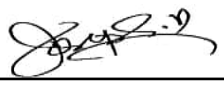
Station Name: LDNR-21
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 20:47:18 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/21/2025 08:20
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 7.322 | 11.606 | | GPM TOTAL C2+ | 0.300 |
| Methane | 89.689 | 81.409 | | GPM TOTAL C3+ | 0.074 |
| Carbon Dioxide | 1.920 | 4.781 | | GPM TOTAL iC5+ | 0.027 |
| Ethane | 0.844 | 1.436 | 0.226 | | |
| Propane | 0.092 | 0.230 | 0.025 | | |
| Iso-butane | 0.061 | 0.201 | 0.020 | | |
| n-Butane | 0.006 | 0.020 | 0.002 | | |
| Iso-pentane | 0.026 | 0.106 | 0.010 | | |
| n-Pentane | NIL | NIL | NIL | | |
| Hexanes Plus | 0.040 | 0.211 | 0.017 | | |
| | 100.000 | 100.000 | 0.300 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6112 | 3.2176 |
| Calculated Molecular Weight | 17.67 | 93.19 |
| Compressibility Factor | 0.9981 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 930 | 5129 |
| Water Sat. Gas Base BTU | 914 | 5040 |



Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100797-004A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-21
Sample Date: 10/21/2025 08:20
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | <0.1 | ppmw | | MG | 11/05/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100797-005A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-22
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 21:27:00 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/21/2025 08:10
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 6.876 | 10.820 | | GPM TOTAL C2+ | 0.761 |
| Methane | 88.773 | 80.000 | | GPM TOTAL C3+ | 0.133 |
| Carbon Dioxide | 1.576 | 3.896 | | GPM TOTAL iC5+ | 0.031 |
| Ethane | 2.351 | 3.971 | 0.628 | | |
| Propane | 0.224 | 0.555 | 0.062 | | |
| Iso-butane | 0.069 | 0.225 | 0.023 | | |
| n-Butane | 0.053 | 0.173 | 0.017 | | |
| Iso-pentane | 0.026 | 0.105 | 0.010 | | |
| n-Pentane | 0.015 | 0.061 | 0.005 | | |
| Hexanes Plus | 0.037 | 0.194 | 0.016 | | |
| | 100.000 | 100.000 | 0.761 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6156 | 3.2176 |
| Calculated Molecular Weight | 17.80 | 93.19 |
| Compressibility Factor | 0.9980 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 953 | 5129 |
| Water Sat. Gas Base BTU | 937 | 5040 |

**Comments:** Reran Sample Confirmed GC Analysis

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100797-005A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-22
Sample Date: 10/21/2025 08:10
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 1.0 | ppmw | | MG | 11/06/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-006A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-23
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/28/2025 21:48:45 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/20/2025 13:50
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 11.753 | 18.176 | | GPM TOTAL C2+ | 0.480 |
| Methane | 85.505 | 75.726 | | GPM TOTAL C3+ | 0.157 |
| Carbon Dioxide | 1.039 | 2.524 | | GPM TOTAL iC5+ | 0.049 |
| Ethane | 1.209 | 2.007 | 0.323 | | |
| Propane | 0.223 | 0.543 | 0.061 | | |
| Iso-butane | 0.081 | 0.260 | 0.026 | | |
| n-Butane | 0.068 | 0.218 | 0.021 | | |
| Iso-pentane | 0.040 | 0.159 | 0.015 | | |
| n-Pentane | 0.030 | 0.119 | 0.011 | | |
| Hexanes Plus | 0.052 | 0.268 | 0.023 | | |
| | 100.000 | 100.000 | 0.480 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6263 | 3.2176 |
| Calculated Molecular Weight | 18.11 | 93.19 |
| Compressibility Factor | 0.9982 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 903 | 5129 |
| Water Sat. Gas Base BTU | 887 | 5040 |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-006A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-23
Sample Date: 10/20/2025 13:50
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | <0.1 | ppmw | | MG | 11/07/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# No Results Available

Number: 1030-25100797-007A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

| | | | |
|---|---|---|---|
| Station Name: | LDNR-19 | Report Date: | 11/12/2025 |
| Received Date: | 10/24/2025 | Sampled By: | DS |
| Login Date: | 10/24/2025 | Sample Of: | Gas Composite |
| Method: | GPA-2261M | Sample Conditions: | |
| | | Sample Date: | 10/23/2025 10:45 |

The above-mentioned sample could not be analyzed properly by our laboratory personnel due to:

**Sample is out of the scope of the method. Has High Nitrogen**

We regret that an analysis could not be performed and recommend that another sample be collected, if appropriate. Please contact us if we can be of any assistance in this matter.

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100797-007A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-19
Sample Date: 10/23/2025 10:45
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | NA | | | | |

**Comments:**
AS-D-5504-H2S: NA = No Results Available: Sample is out of the scope of the method. Has high Nitrogen.

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100797-008A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-03
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/29/2025 14:30:36 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/20/2025 12:15
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia |
|---|---|---|---|
| Nitrogen | 2.690 | 4.341 | |
| Methane | 93.712 | 86.610 | |
| Carbon Dioxide | 2.514 | 6.374 | |
| Ethane | 0.623 | 1.079 | 0.167 |
| Propane | 0.189 | 0.480 | 0.052 |
| Iso-butane | 0.074 | 0.248 | 0.024 |
| n-Butane | 0.059 | 0.198 | 0.019 |
| Iso-pentane | 0.036 | 0.150 | 0.013 |
| n-Pentane | 0.027 | 0.112 | 0.010 |
| Hexanes Plus | 0.076 | 0.408 | 0.033 |
| | 100.000 | 100.000 | 0.318 |

| | |
|---|---|
| GPM TOTAL C2+ | 0.318 |
| GPM TOTAL C3+ | 0.151 |
| GPM TOTAL iC5+ | 0.056 |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6003 | 3.2176 |
| Calculated Molecular Weight | 17.36 | 93.19 |
| Compressibility Factor | 0.9979 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 975 | 5129 |
| Water Sat. Gas Base BTU | 958 | 5040 |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-008A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-03
Sample Date: 10/20/2025 12:15
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 120.5 | ppmw | | MG | 11/07/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-009A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-04
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/29/2025 14:52:44 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/20/2025 12:20
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 3.102 | 5.026 | | GPM TOTAL C2+ | 0.505 |
| Methane | 93.349 | 86.608 | | GPM TOTAL C3+ | 0.163 |
| Carbon Dioxide | 1.752 | 4.459 | | GPM TOTAL iC5+ | 0.043 |
| Ethane | 1.279 | 2.224 | 0.342 | | |
| Propane | 0.254 | 0.648 | 0.070 | | |
| Iso-butane | 0.080 | 0.269 | 0.026 | | |
| n-Butane | 0.076 | 0.255 | 0.024 | | |
| Iso-pentane | 0.035 | 0.146 | 0.013 | | |
| n-Pentane | 0.023 | 0.096 | 0.008 | | |
| Hexanes Plus | 0.050 | 0.269 | 0.022 | | |
| | 100.000 | 100.000 | 0.505 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.5980 | 3.2176 |
| Calculated Molecular Weight | 17.29 | 93.19 |
| Compressibility Factor | 0.9979 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 984 | 5129 |
| Water Sat. Gas Base BTU | 967 | 5040 |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-009A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-04
Sample Date: 10/20/2025 12:20
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 91.6 | ppmw | | MG | 11/07/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25100797-010A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-09
Login Date: 10/24/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 10/29/2025 15:15:18 by EKK

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:
Sample Date: 10/22/2025 14:30
Received Date: 10/24/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 4.386 | 7.031 | | GPM TOTAL C2+ | 0.228 |
| Methane | 92.213 | 84.653 | | GPM TOTAL C3+ | 0.074 |
| Carbon Dioxide | 2.594 | 6.533 | | GPM TOTAL iC5+ | 0.025 |
| Ethane | 0.577 | 0.993 | 0.154 | | |
| Propane | 0.102 | 0.257 | 0.028 | | |
| Iso-butane | 0.049 | 0.163 | 0.016 | | |
| n-Butane | 0.017 | 0.057 | 0.005 | | |
| Iso-pentane | 0.012 | 0.050 | 0.004 | | |
| n-Pentane | 0.003 | 0.012 | 0.001 | | |
| Hexanes Plus | 0.047 | 0.251 | 0.020 | | |
| | 100.000 | 100.000 | 0.228 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6043 | 3.2176 |
| Calculated Molecular Weight | 17.48 | 93.19 |
| Compressibility Factor | 0.9980 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 951 | 5129 |
| Water Sat. Gas Base BTU | 935 | 5040 |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25100797-010A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-09
Sample Date: 10/22/2025 14:30
Received Date: 10/24/2025
Login Date: 10/24/2025

Report Date: 11/12/2025
Sampled By: DS
Sample Of: Gas Composite
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 0.4 | ppmw | | MG | 11/07/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# SPL, Inc.
## Analysis Request Chain of Custody Record

SPL

| SPL Work Order No.: | Acct. Mate Code: | Dept. Code | Page | Pages |
|---|---|---|---|---|
| | | | 1 | 1 |

| Report To: (Company Name): | ERM | Project/Station Name: | Project/Station Number: | Project/Station Location: | Requested TAT* |
|---|---|---|---|---|---|
| Address: | 840 W. Sam Houston Pkwy N. #600 | | | | |
| City/State/Zip: | Houston TX 77024 | Special Instructions: | | | |
| Contact/Email: | Scott Himes Scott.Himes@ERM.com | Indicate Billing Type: (Place "X", where appropriate) | Net 30 day Acct. | Check # | |
| Phone: | 281-600-1000 Fax: | | Credit Card | <<<Contact SPL, Inc for CC payment arrangements. | * Surcharges May Apply (See quote for details) |
| Invoice To: (Company Name): | SAME | † Terms: Cylinders will be rented for $10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost. | Requested Analysis (Place an "X" next to Sample ID below) | | |
| Address: | | | | | |
| City/State/Zip: | | | | | |
| Contact/Email: | | | | | |
| Phone: | Fax: | | | | |
| Client PO# or Ref. No.: | 080006 | | | | |
| Contract/Proposal #: (i.e. SPLQ####) | | | | | |

| Sample ID (used to log/track sample) | Sample Date | Sample Time | Sample Type (Gas/Liq./Solid) | Duplicate | Composite | Spot | Cylinder Tracking Info† Cylinder # | Date Out | Date In | AS-D-5504-H2S | GPA-2201-GC† | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LDNR-17 | 10/21/25 | 0840 | GAS | | X | | | | | X | X | |
| LDNR-12 | 10/24/25 | 0850 | | | X | | | | | X | X | |
| LDNR-18 | 10/21/25 | 0830 | | | X | | | | | X | X | |
| LDNR-21 | 10/21/25 | 0820 | | | X | | | | | X | X | |
| LDNR-22 | 10/21/25 | ~~0840~~ PENDING | | | X | | | | | X | X | |
| GAS DUP-01 | 10/20/25 | 1200 | | X | | | | | | X | X | |
| LDNR-23 | 10/20/25 | 1350 | | | X | | | | | X | X | |
| LDNR-~~18~~ 19 | 10/23/25 | 1045 | | | X | | | | | X | X | |
| LDNR-03 | 10/20/25 | 1215 | | | X | | | | | X | X | |
| LDNR-04 | 10/20/25 | 1220 | | | X | | | | | X | X | |
| LDNR-09 | 10/22/25 | 1430 | | | X | | | | | X | X | |

| | | | | | |
|---|---|---|---|---|---|
| Sampled By-Print Name: | David Sanguinetti | Received By-Company: | | | |
| Signature: | | | | | |
| Relinquished By-Print Name: | Zedric Cano | Date: 10/24/25 | Time: 8:30 | Received By-Print Name: | Date: 10-24-25 | Time: |
| Signature: | | | | Signature: | | |
| Relinquished By-Print Name: | | Date: | Time: | Received By-Print Name: | Date: | Time: |
| Signature: | | | | Signature: | | |
| Relinquished By-Print Name: | | Date: | Time: | Received By-Print Name: | Date: | Time: |
| Signature: | | | | Signature: | | |

| Choose SPL Facility>>> | Corporate HQ - Houston, TX | Ship to Address: | 8820 Interchange Dr., Houston,TX 77054 | Phone: | 713.660.0901 |
|---|---|---|---|---|---|

Please contact one of our offices above for the form to be e-mailed to you.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25110697-001A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-24
Login Date: 11/20/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 11/21/2025 15:47:46 by KAN

Report Date: 12/03/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Conditions:
Sample Date: 11/17/2025 11:45
Received Date: 11/20/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 2.340 | 3.753 | | GPM TOTAL C2+ | 0.418 |
| Methane | 93.403 | 85.787 | | GPM TOTAL C3+ | 0.179 |
| Carbon Dioxide | 2.808 | 7.075 | | GPM TOTAL iC5+ | 0.058 |
| Ethane | 0.893 | 1.537 | 0.239 | | |
| Propane | 0.257 | 0.649 | 0.071 | | |
| Iso-butane | 0.083 | 0.276 | 0.027 | | |
| n-Butane | 0.074 | 0.246 | 0.023 | | |
| Iso-pentane | 0.037 | 0.153 | 0.014 | | |
| n-Pentane | 0.030 | 0.124 | 0.011 | | |
| Hexanes Plus | 0.075 | 0.400 | 0.033 | | |
| | 100.000 | 100.000 | 0.418 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6041 | 3.2176 |
| Calculated Molecular Weight | 17.47 | 93.19 |
| Compressibility Factor | 0.9979 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 979 | 5129 |
| Water Sat. Gas Base BTU | 963 | 5040 |

**Comments:** Reran Sample Confirmed GC Analysis

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-25110697-001A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-24
Sample Date: 11/17/2025 11:45
Received Date: 11/20/2025
Login Date: 11/20/2025

Report Date: 12/03/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | <0.1 | ppmw | | MG | 12/02/2025 |

**Comments:**
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25110697-002A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-26
Login Date: 11/20/2025
Method: GPA-2261M
Instrument: HGC 24A + 24B, 850 MIB_4 - Channel 1
Analyzed: 11/21/2025 16:08:31 by KAN

Report Date: 12/03/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Conditions:
Sample Date: 11/17/2025 12:45
Received Date: 11/20/2025

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|
| Nitrogen | 11.282 | 17.770 | | GPM TOTAL C2+ | 0.254 |
| Methane | 87.017 | 78.488 | | GPM TOTAL C3+ | 0.055 |
| Carbon Dioxide | 0.783 | 1.937 | | GPM TOTAL iC5+ | 0.010 |
| Ethane | 0.743 | 1.256 | 0.199 | | |
| Propane | 0.065 | 0.161 | 0.018 | | |
| Iso-butane | 0.083 | 0.271 | 0.027 | | |
| n-Butane | 0.001 | 0.003 | NIL | | |
| Iso-pentane | 0.017 | 0.069 | 0.006 | | |
| n-Pentane | 0.002 | 0.008 | 0.001 | | |
| Hexanes Plus | 0.007 | 0.037 | 0.003 | | |
| | 100.000 | 100.000 | 0.254 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.6150 | 3.2176 |
| Calculated Molecular Weight | 17.79 | 93.19 |
| Compressibility Factor | 0.9982 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 899 | 5129 |
| Water Sat. Gas Base BTU | 884 | 5040 |

**Comments:** Reran Sample Confirmed GC Analysis

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# Certificate of Analysis

Number: 1030-25110697-002A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-26
Sample Date: 11/17/2025 12:45
Received Date: 11/20/2025
Login Date: 11/20/2025

Report Date: 12/03/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Conditions:

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | ASTM D-5504 | 0.3 | ppmw | | MG | 12/02/2025 |

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

# SPL, Inc.

## Analysis Request Chain of Custody Record

SPL

| SPL Work Order No.: | Acct. Mate Code: | Dept. Code | Page | Pages |
|---|---|---|---|---|
| | | | 1 | 1 |

| | | | |
|---|---|---|---|
| Report To: (Company Name): | Scott. Hines | Project/Station Name: | Requested TAT* |
| Address: | ~~840~~ 840 W. Sam Houston Pkwy N. #600 | Special Instructions: | 10 Business Day |
| City/State/Zip: | Houston TX | | |
| Contact/Email: | Scott.Hines@ERM.com | Indicate Billing Type: (Place "X", where appropriate) Net 30 day Acct. | Check # |
| Phone: | Fax: | Credit Card | <<<Contact SPL, Inc for CC payment arrangements. |
| Invoice To: (Company Name): | ERM | | * Surcharges May Apply (See quote for details) |
| Address: | Same | † Terms: Cylinders will be rented for $10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost. | |
| City/State/Zip: | | | |
| Contact/Email: | | | |
| Phone: | Fax: | | |
| Client PO# or Ref. No.: | 080006 | | |
| Contract/Proposal #: (i.e. SPLQ####) | | | |

| Sample ID (used to log/track sample) | Sample Date | Sample Time | Sample Type (Gas/Liq./Solid) | Duplicate | Composite | Spot | Cylinder Tracking Info† Cylinder # | Date Out | Date In | Requested Analysis (Place an "X" next to Sample ID below): AS-D-5504-H2S | GPA-2261-C6+ | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~LDNR-1A~~ | ~~10/25/25~~ | ~~1045~~ | | | | | | | | | | |
| LDNR-24 | 11/17 | 1145 | Gas | | | / | | | | / | / | |
| LDNR-26 | 11/17 | 1245 | Gas | | | / | | | | / | / | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sampled By-Print Name: | Marcus Smith | | | Received By-Company: | | | |
| Signature: | MS | | | | | | |
| Relinquished By-Print Name: | MS | Date: | Time: | Received By-Print Name: | Bryan Mendez | Date: | Time: |
| Signature: | Marcus Smith | 11/17 | 1400 | Signature: | BM | 3:24PM 11.20.25 | |
| Relinquished By-Print Name: | Cedric Cage | Date: | Time: | Received By-Print Name: | | Date: | Time: |
| Signature: | Cedric Cage | 11/20 | 1525 | Signature: | | | |
| Relinquished By-Print Name: | | Date: | Time: | Received By-Print Name: | | Date: | Time: |
| Signature: | | | | Signature: | | | |

Note - As a convenience to our clients, this form is available in an electronic format. Please contact one of our offices above for the form to be e-mailed to you.

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

October 31, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25101106**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 20 sample(s) on Oct 22, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

**Generated By: DAYNA.FISHER**
Alexis Dorenbosch
Project Manager

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**Work Order:** HS25101106

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS25101106-01 | MW-3-500 | Water | | 20-Oct-2025 16:00 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-02 | FB-102025 | Water | | 20-Oct-2025 16:10 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-03 | MW-3-200 | Water | | 21-Oct-2025 10:30 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-04 | MW-3-700 | Water | | 21-Oct-2025 12:30 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-05 | FB-102125 | Water | | 21-Oct-2025 15:30 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-06 | LDNR-25 | Water | | 21-Oct-2025 10:50 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-07 | LDNR-13 | Water | | 21-Oct-2025 11:15 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-08 | LDNR-14 | Water | | 21-Oct-2025 11:40 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-09 | LDNR-12 | Water | | 21-Oct-2025 14:15 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-10 | LDNR-06 | Water | | 21-Oct-2025 14:30 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-11 | LDNR-07 | Water | | 21-Oct-2025 15:00 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-12 | SW-DUP-01 | Water | | 21-Oct-2025 00:00 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-13 | CG-100125-380 | Water | CG-100125-380 | 21-Oct-2025 00:00 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-14 | CG-100125-385 | Water | CG-100125-385 | 21-Oct-2025 00:00 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-15 | CG-100125-370 | Water | CG-100125-370 | 21-Oct-2025 00:00 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-16 | CG-100125-377 | Water | CG-100125-377 | 21-Oct-2025 00:00 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-17 | CG-100125-387 | Water | CG-100125-387 | 21-Oct-2025 00:00 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-18 | FB-102225 | Water | | 22-Oct-2025 08:15 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-19 | Rinsate | Water | | 22-Oct-2025 09:00 | 22-Oct-2025 12:54 | ☐ |
| HS25101106-20 | LDNR-08 | Water | | 22-Oct-2025 10:20 | 22-Oct-2025 12:54 | ☐ |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25101106

## Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

## Work Order Comments

• Login notes:

Sample LDNR-08 not on chain of custody, logged in for all analysis per client email.

## GC Semivolatiles by Method MA EPH

### Batch ID: 234676

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GC Volatiles by Method MA VPH

### Batch ID: R525349,R525350,R525356,R525359

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GCMS Volatiles by Method SW8260

### Batch ID: R525238

**Sample ID: LCS**

• Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

### Batch ID: R525143

**Sample ID: LCS**

• Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

## Metals by Method SW7470A

### Batch ID: 234922

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## Metals by Method SW6020A

### Batch ID: 234880

**Sample ID: HS25101288-15MS**

• MS/MSD and DUPs are for an unrelated sample

## WetChemistry by Method M2540C

### Batch ID: R524814,R525068

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25101106

**WetChemistry by Method SW9056**

**Batch ID: R525124**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method E376.1**

**Batch ID: R524821**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SM4500 S2-F**

**Batch ID: R524796**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SM4500H+ B**

**Batch ID: R524648,R524954**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SM2320B**

**Batch ID: R524646,R524950**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 20-Oct-2025 16:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| **Benzene** | **0.00057** | J | **0.00028** | **0.0010** | **mg/L** | 1 | 29-Oct-2025 18:26 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 18:26 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 18:26 |
| **o-Xylene** | **0.00033** | J | **0.00031** | **0.0020** | **mg/L** | 1 | 29-Oct-2025 18:26 |
| **Toluene** | **0.0015** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 29-Oct-2025 18:26 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 18:26 |
| *Surr: 1,2-Dichloroethane-d4* | *100* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 18:26* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 18:26* |
| *Surr: Dibromofluoromethane* | *99.1* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 18:26* |
| *Surr: Toluene-d8* | *100* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 18:26* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| **Aliphatics >C6 - C8** | **0.600** | | **0.0360** | **0.100** | **mg/L** | 20 | 30-Oct-2025 23:02 |
| Aliphatics >C8 - C10 | U | | 0.00800 | 0.100 | mg/L | 20 | 30-Oct-2025 23:02 |
| Aromatics >C8 - C10 | U | | 0.0120 | 0.400 | mg/L | 20 | 30-Oct-2025 23:02 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *107* | | | *70-130* | *%REC* | *20* | *30-Oct-2025 23:02* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *108* | | | *70-130* | *%REC* | *20* | *30-Oct-2025 23:02* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:24 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:24 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:24 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:24 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:24 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:24 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:24 |
| *Surr: 1-Chlorooctadecane* | *67.1* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 17:24* |
| *Surr: 2-Bromonaphthalene* | *83.1* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 17:24* |
| *Surr: 2-Fluorobiphenyl* | *81.7* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 17:24* |
| *Surr: o-Terphenyl* | *65.5* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 17:24* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 20-Oct-2025 16:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 30-Oct-2025 18:43 |
| **Barium** | **0.149** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 18:43 |
| **Calcium** | **353** | | **6.00** | **25.0** | **mg/L** | 50 | 30-Oct-2025 19:58 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 18:43 |
| **Iron** | **15.5** | | **0.0600** | **0.200** | **mg/L** | 1 | 30-Oct-2025 18:43 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 18:43 |
| **Magnesium** | **37.9** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 18:43 |
| **Manganese** | **0.785** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 18:43 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 18:43 |
| **Potassium** | **6.97** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 18:43 |
| **Sodium** | **1,080** | | **6.50** | **25.0** | **mg/L** | 50 | 30-Oct-2025 19:58 |
| **Strontium** | **7.52** | | **0.0150** | **0.250** | **mg/L** | 50 | 30-Oct-2025 19:58 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 30-Oct-2025 18:43 |
| **Zinc** | **0.00583** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 18:43 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:13 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **3,520** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **260** | | **1.20** | **5.00** | **mg/L** | 1 | 22-Oct-2025 22:52 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 22:52 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.97** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 22:52 |
| **Temp Deg C @pH** | **21.2** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 22:52 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **1.14** | | **0.0600** | **0.200** | **mg/L** | 2 | 28-Oct-2025 17:46 |
| **Chloride** | **1,780** | | **10.0** | **25.0** | **mg/L** | 50 | 28-Oct-2025 18:22 |
| **Sulfate** | **598** | | **10.0** | **25.0** | **mg/L** | 50 | 28-Oct-2025 18:22 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-102025
Collection Date: 20-Oct-2025 16:10

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 17:40 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 17:40 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 17:40 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 17:40 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 17:40 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 17:40 |
| *Surr: 1,2-Dichloroethane-d4* | *98.2* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 17:40* |
| *Surr: 4-Bromofluorobenzene* | *110* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 17:40* |
| *Surr: Dibromofluoromethane* | *105* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 17:40* |
| *Surr: Toluene-d8* | *97.6* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 17:40* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 01:39 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 01:39 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 01:39 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *96.0* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 01:39* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *96.8* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 01:39* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:52 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:52 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:52 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:52 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:52 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:52 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 17:52 |
| *Surr: 1-Chlorooctadecane* | *63.7* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 17:52* |
| *Surr: 2-Bromonaphthalene* | *78.5* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 17:52* |
| *Surr: 2-Fluorobiphenyl* | *79.1* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 17:52* |
| *Surr: o-Terphenyl* | *65.1* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 17:52* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-102025
Collection Date: 20-Oct-2025 16:10

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:00 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:00 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 30-Oct-2025 19:00 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:00 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:00 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:00 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 30-Oct-2025 19:00 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:00 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:00 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 30-Oct-2025 19:00 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 30-Oct-2025 19:00 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:00 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:00 |
| **Zinc** | **0.00364** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:00 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:22 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| Total Dissolved Solids (Residue, Filterable) | U | | 3.00 | 10.0 | mg/L | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:03 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:03 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.33** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 23:03 |
| **Temp Deg C @pH** | **21.1** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 23:03 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 17:58 |
| **Chloride** | **3.32** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 17:58 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 28-Oct-2025 17:58 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 21-Oct-2025 10:30

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| **Benzene** | **0.00032** | J | **0.00028** | **0.0010** | **mg/L** | 1 | 29-Oct-2025 18:49 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 18:49 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 18:49 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 18:49 |
| Toluene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 18:49 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 18:49 |
| *Surr: 1,2-Dichloroethane-d4* | *95.2* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 18:49* |
| *Surr: 4-Bromofluorobenzene* | *108* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 18:49* |
| *Surr: Dibromofluoromethane* | *105* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 18:49* |
| *Surr: Toluene-d8* | *96.0* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 18:49* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 06:12 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 06:12 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 06:12 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *97.6* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 06:12* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *100* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 06:12* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:21 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:21 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:21 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:21 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:21 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:21 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:21 |
| *Surr: 1-Chlorooctadecane* | *66.9* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 18:21* |
| *Surr: 2-Bromonaphthalene* | *75.8* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 18:21* |
| *Surr: 2-Fluorobiphenyl* | *80.1* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 18:21* |
| *Surr: o-Terphenyl* | *62.9* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 18:21* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 21-Oct-2025 10:30

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.00210** | | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| **Barium** | **0.234** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| **Calcium** | **19.5** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:03 |
| **Iron** | **2.37** | | **0.0600** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:03 |
| **Magnesium** | **3.98** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| **Manganese** | **0.0284** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:03 |
| **Potassium** | **28.6** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| **Sodium** | **127** | | **0.130** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| **Strontium** | **0.315** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| **Vanadium** | **0.00112** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| **Zinc** | **0.0205** | | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:03 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:23 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **436** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **298** | | **1.20** | **5.00** | **mg/L** | 1 | 22-Oct-2025 23:08 |
| **Alkalinity, Carbonate (As CaCO3)** | **12.0** | | **1.20** | **5.00** | **mg/L** | 1 | 22-Oct-2025 23:08 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.46** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 23:08 |
| **Temp Deg C @pH** | **21.1** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 23:08 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 18:04 |
| **Chloride** | **23.4** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 18:04 |
| **Sulfate** | **0.519** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 18:04 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 21-Oct-2025 12:30

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 19:12 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 19:12 |
| **m,p-Xylene** | **0.00065** | J | **0.00061** | **0.0040** | **mg/L** | 1 | 29-Oct-2025 19:12 |
| **o-Xylene** | **0.00033** | J | **0.00031** | **0.0020** | **mg/L** | 1 | 29-Oct-2025 19:12 |
| **Toluene** | **0.0014** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 29-Oct-2025 19:12 |
| **Xylenes, Total** | **0.00098** | J | **0.00092** | **0.0060** | **mg/L** | 1 | 29-Oct-2025 19:12 |
| *Surr: 1,2-Dichloroethane-d4* | *106* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 19:12* |
| *Surr: 4-Bromofluorobenzene* | *105* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 19:12* |
| *Surr: Dibromofluoromethane* | *103* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 19:12* |
| *Surr: Toluene-d8* | *98.6* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 19:12* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 06:51 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 06:51 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 06:51 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *97.2* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 06:51* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *94.8* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 06:51* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:50 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:50 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:50 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:50 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:50 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:50 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 18:50 |
| *Surr: 1-Chlorooctadecane* | *67.7* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 18:50* |
| *Surr: 2-Bromonaphthalene* | *89.6* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 18:50* |
| *Surr: 2-Fluorobiphenyl* | *87.4* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 18:50* |
| *Surr: o-Terphenyl* | *81.0* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 18:50* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 21-Oct-2025 12:30

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:05 |
| **Barium** | **3.14** | | **0.0150** | **0.100** | **mg/L** | 20 | 30-Oct-2025 20:03 |
| **Calcium** | **232** | | **2.40** | **10.0** | **mg/L** | 20 | 30-Oct-2025 20:03 |
| **Chromium** | **0.00189** | J | **0.00173** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:05 |
| **Iron** | **10.0** | | **0.0600** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:05 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:05 |
| **Magnesium** | **49.6** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:05 |
| **Manganese** | **0.935** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:05 |
| **Nickel** | **0.00197** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:05 |
| **Potassium** | **9.49** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:05 |
| **Sodium** | **1,440** | | **2.60** | **10.0** | **mg/L** | 20 | 30-Oct-2025 20:03 |
| **Strontium** | **4.30** | | **0.00600** | **0.100** | **mg/L** | 20 | 30-Oct-2025 20:03 |
| **Vanadium** | **0.00188** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:05 |
| **Zinc** | **0.0748** | | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:05 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:25 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **3,660** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **175** | | **1.20** | **5.00** | **mg/L** | 1 | 22-Oct-2025 23:14 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:14 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.57** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 23:14 |
| **Temp Deg C @pH** | **21.3** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 23:14 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **2.55** | | **0.0600** | **0.200** | **mg/L** | 2 | 28-Oct-2025 17:52 |
| **Chloride** | **2,910** | | **10.0** | **25.0** | **mg/L** | 50 | 28-Oct-2025 18:27 |
| **Sulfate** | **2.44** | | **0.400** | **1.00** | **mg/L** | 2 | 28-Oct-2025 17:52 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-102125
Collection Date: 21-Oct-2025 15:30

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 18:03 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 18:03 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 18:03 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 18:03 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 18:03 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 18:03 |
| *Surr: 1,2-Dichloroethane-d4* | *102* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 18:03* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 18:03* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 18:03* |
| *Surr: Toluene-d8* | *96.1* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 18:03* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 02:18 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 02:18 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 02:18 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *90.4* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 02:18* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *90.4* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 02:18* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:19 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:19 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:19 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:19 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:19 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:19 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:19 |
| *Surr: 1-Chlorooctadecane* | *59.3* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 19:19* |
| *Surr: 2-Bromonaphthalene* | *89.9* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 19:19* |
| *Surr: 2-Fluorobiphenyl* | *88.3* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 19:19* |
| *Surr: o-Terphenyl* | *77.1* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 19:19* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-102125
Collection Date: 21-Oct-2025 15:30

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:08 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:08 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 30-Oct-2025 19:08 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:08 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:08 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:08 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 30-Oct-2025 19:08 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:08 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:08 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 30-Oct-2025 19:08 |
| **Sodium** | **0.272** | J | **0.130** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:08 |
| **Strontium** | **0.000387** | J | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:08 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:08 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 30-Oct-2025 19:08 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:27 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| Total Dissolved Solids (Residue, Filterable) | U | | 3.00 | 10.0 | mg/L | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:19 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:19 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.58** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 23:19 |
| **Temp Deg C @pH** | **21.6** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 23:19 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 18:10 |
| Chloride | U | | 0.200 | 0.500 | mg/L | 1 | 28-Oct-2025 18:10 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 28-Oct-2025 18:10 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-25
Collection Date: 21-Oct-2025 10:50

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 23:24 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 23:24 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 23:24 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 23:24 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 23:24 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 23:24 |
| *Surr: 1,2-Dichloroethane-d4* | *103* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 23:24* |
| *Surr: 4-Bromofluorobenzene* | *104* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 23:24* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 23:24* |
| *Surr: Toluene-d8* | *96.6* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 23:24* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 07:30 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 07:30 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 07:30 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *102* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 07:30* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *102* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 07:30* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:48 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:48 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:48 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:48 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:48 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:48 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 19:48 |
| *Surr: 1-Chlorooctadecane* | *65.8* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 19:48* |
| *Surr: 2-Bromonaphthalene* | *83.7* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 19:48* |
| *Surr: 2-Fluorobiphenyl* | *82.4* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 19:48* |
| *Surr: o-Terphenyl* | *77.2* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 19:48* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-25
Collection Date: 21-Oct-2025 10:50

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.000791** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 19:10 |
| **Barium** | **0.229** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:10 |
| **Calcium** | **70.8** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:10 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:10 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:10 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:10 |
| **Magnesium** | **14.1** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:10 |
| **Manganese** | **0.301** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:10 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:10 |
| **Potassium** | **2.65** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:10 |
| **Sodium** | **168** | | **0.130** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:10 |
| **Strontium** | **0.521** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:10 |
| **Vanadium** | **0.00222** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:10 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 30-Oct-2025 19:10 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:28 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **692** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **168** | | **1.20** | **5.00** | **mg/L** | 1 | 22-Oct-2025 23:24 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:24 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.93** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 23:24 |
| **Temp Deg C @pH** | **21.7** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 23:24 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 18:57 |
| **Chloride** | **292** | | **2.00** | **5.00** | **mg/L** | 10 | 28-Oct-2025 19:03 |
| **Sulfate** | **63.1** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 18:57 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-13
Collection Date: 21-Oct-2025 11:15

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 23:46 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 23:46 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 23:46 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 23:46 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 23:46 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 23:46 |
| *Surr: 1,2-Dichloroethane-d4* | *108* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 23:46* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 23:46* |
| *Surr: Dibromofluoromethane* | *104* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 23:46* |
| *Surr: Toluene-d8* | *96.9* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 23:46* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 08:09 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 08:09 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 08:09 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *88.4* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 08:09* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *88.4* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 08:09* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 20:17 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 20:17 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 20:17 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 20:17 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 20:17 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 20:17 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 20:17 |
| *Surr: 1-Chlorooctadecane* | *61.3* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 20:17* |
| *Surr: 2-Bromonaphthalene* | *86.7* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 20:17* |
| *Surr: 2-Fluorobiphenyl* | *84.3* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 20:17* |
| *Surr: o-Terphenyl* | *70.5* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 20:17* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-13
Collection Date: 21-Oct-2025 11:15

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.000890** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 19:12 |
| **Barium** | **0.244** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:12 |
| **Calcium** | **75.3** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:12 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:12 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:12 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:12 |
| **Magnesium** | **14.9** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:12 |
| **Manganese** | **0.409** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:12 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:12 |
| **Potassium** | **2.77** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:12 |
| **Sodium** | **183** | | **2.60** | **10.0** | **mg/L** | 20 | 30-Oct-2025 20:05 |
| **Strontium** | **0.557** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:12 |
| **Vanadium** | **0.00255** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:12 |
| **Zinc** | **0.00749** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:12 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:36 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **776** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **169** | | **1.20** | **5.00** | **mg/L** | 1 | 22-Oct-2025 23:42 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:42 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.00** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 23:42 |
| **Temp Deg C @pH** | **21.6** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 23:42 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 19:20 |
| **Chloride** | **292** | | **2.00** | **5.00** | **mg/L** | 10 | 28-Oct-2025 19:38 |
| **Sulfate** | **62.8** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 19:20 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-14
Collection Date: 21-Oct-2025 11:40

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 30-Oct-2025 00:09 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 00:09 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 30-Oct-2025 00:09 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 30-Oct-2025 00:09 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 00:09 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 30-Oct-2025 00:09 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-126* | *%REC* | *1* | *30-Oct-2025 00:09* |
| *Surr: 4-Bromofluorobenzene* | *108* | | | *77-113* | *%REC* | *1* | *30-Oct-2025 00:09* |
| *Surr: Dibromofluoromethane* | *103* | | | *77-123* | *%REC* | *1* | *30-Oct-2025 00:09* |
| *Surr: Toluene-d8* | *94.6* | | | *82-127* | *%REC* | *1* | *30-Oct-2025 00:09* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 08:48 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 08:48 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 08:48 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *106* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 08:48* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *106* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 08:48* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 21:43 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 21:43 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 21:43 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 21:43 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 21:43 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 21:43 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 21:43 |
| *Surr: 1-Chlorooctadecane* | *59.8* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 21:43* |
| *Surr: 2-Bromonaphthalene* | *87.9* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 21:43* |
| *Surr: 2-Fluorobiphenyl* | *85.2* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 21:43* |
| *Surr: o-Terphenyl* | *82.7* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 21:43* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-14
Collection Date: 21-Oct-2025 11:40

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.000955** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 19:15 |
| **Barium** | **0.255** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:15 |
| **Calcium** | **79.1** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:15 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:15 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:15 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:15 |
| **Magnesium** | **15.4** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:15 |
| **Manganese** | **0.376** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:15 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:15 |
| **Potassium** | **2.90** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:15 |
| **Sodium** | **195** | | **2.60** | **10.0** | **mg/L** | 20 | 30-Oct-2025 20:07 |
| **Strontium** | **0.596** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:15 |
| **Vanadium** | **0.00260** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:15 |
| **Zinc** | **0.00626** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:15 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:38 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **778** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **171** | | **1.20** | **5.00** | **mg/L** | 1 | 22-Oct-2025 23:48 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:48 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.98** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 23:48 |
| **Temp Deg C @pH** | **21.5** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 23:48 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 19:26 |
| **Chloride** | **291** | | **2.00** | **5.00** | **mg/L** | 10 | 28-Oct-2025 19:44 |
| **Sulfate** | **62.8** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 19:26 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-12
Collection Date: 21-Oct-2025 14:15

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 30-Oct-2025 00:32 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 00:32 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 30-Oct-2025 00:32 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 30-Oct-2025 00:32 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 00:32 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 30-Oct-2025 00:32 |
| *Surr: 1,2-Dichloroethane-d4* | *105* | | | *70-126* | *%REC* | *1* | *30-Oct-2025 00:32* |
| *Surr: 4-Bromofluorobenzene* | *105* | | | *77-113* | *%REC* | *1* | *30-Oct-2025 00:32* |
| *Surr: Dibromofluoromethane* | *100* | | | *77-123* | *%REC* | *1* | *30-Oct-2025 00:32* |
| *Surr: Toluene-d8* | *95.8* | | | *82-127* | *%REC* | *1* | *30-Oct-2025 00:32* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 09:26 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 09:26 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 09:26 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *96.0* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 09:26* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *96.0* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 09:26* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:12 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:12 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:12 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:12 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:12 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:12 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:12 |
| *Surr: 1-Chlorooctadecane* | *63.0* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 22:12* |
| *Surr: 2-Bromonaphthalene* | *90.6* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 22:12* |
| *Surr: 2-Fluorobiphenyl* | *87.7* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 22:12* |
| *Surr: o-Terphenyl* | *86.3* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 22:12* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-12
Collection Date: 21-Oct-2025 14:15

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.000888** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 19:17 |
| **Barium** | **0.233** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:17 |
| **Calcium** | **75.4** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:17 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:17 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:17 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:17 |
| **Magnesium** | **14.9** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:17 |
| **Manganese** | **0.268** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:17 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:17 |
| **Potassium** | **2.89** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:17 |
| **Sodium** | **171** | | **2.60** | **10.0** | **mg/L** | 20 | 30-Oct-2025 20:10 |
| **Strontium** | **0.551** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:17 |
| **Vanadium** | **0.00248** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:17 |
| **Zinc** | **0.0128** | | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:17 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:40 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **796** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **167** | | **1.20** | **5.00** | **mg/L** | 1 | 22-Oct-2025 23:53 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:53 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.02** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 23:53 |
| **Temp Deg C @pH** | **21.5** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 23:53 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 19:32 |
| **Chloride** | **287** | | **2.00** | **5.00** | **mg/L** | 10 | 28-Oct-2025 19:50 |
| **Sulfate** | **62.8** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 19:32 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-06
Collection Date: 21-Oct-2025 14:30

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-10
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 30-Oct-2025 00:55 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 00:55 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 30-Oct-2025 00:55 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 30-Oct-2025 00:55 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 00:55 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 30-Oct-2025 00:55 |
| *Surr: 1,2-Dichloroethane-d4* | *105* | | | *70-126* | *%REC* | *1* | *30-Oct-2025 00:55* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *30-Oct-2025 00:55* |
| *Surr: Dibromofluoromethane* | *103* | | | *77-123* | *%REC* | *1* | *30-Oct-2025 00:55* |
| *Surr: Toluene-d8* | *95.8* | | | *82-127* | *%REC* | *1* | *30-Oct-2025 00:55* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 10:05 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 10:05 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 10:05 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *100* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 10:05* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *100* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 10:05* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:41 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:41 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:41 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:41 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:41 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:41 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 22:41 |
| *Surr: 1-Chlorooctadecane* | *71.3* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 22:41* |
| *Surr: 2-Bromonaphthalene* | *74.1* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 22:41* |
| *Surr: 2-Fluorobiphenyl* | *82.5* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 22:41* |
| *Surr: o-Terphenyl* | *73.8* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 22:41* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-06
Collection Date: 21-Oct-2025 14:30

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-10
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.000900** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| **Barium** | **0.232** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| **Calcium** | **73.3** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:27 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:27 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:27 |
| **Magnesium** | **14.0** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| **Manganese** | **0.326** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:27 |
| **Potassium** | **2.68** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| **Sodium** | **169** | | **0.130** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| **Strontium** | **0.524** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| **Vanadium** | **0.00240** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| **Zinc** | **0.00421** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:27 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:41 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **756** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **168** | | **1.20** | **5.00** | **mg/L** | 1 | 22-Oct-2025 23:59 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 22-Oct-2025 23:59 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.96** | H | **0.100** | **1.00** | **pH Units** | 1 | 22-Oct-2025 23:59 |
| **Temp Deg C @pH** | **21.6** | H | **0** | **0** | **°C** | 1 | 22-Oct-2025 23:59 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 20:19 |
| **Chloride** | **290** | | **2.00** | **5.00** | **mg/L** | 10 | 28-Oct-2025 20:43 |
| **Sulfate** | **62.7** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 20:19 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-07
Collection Date: 21-Oct-2025 15:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-11
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 30-Oct-2025 01:18 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 01:18 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 30-Oct-2025 01:18 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 30-Oct-2025 01:18 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 01:18 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 30-Oct-2025 01:18 |
| *Surr: 1,2-Dichloroethane-d4* | *105* | | | *70-126* | *%REC* | *1* | *30-Oct-2025 01:18* |
| *Surr: 4-Bromofluorobenzene* | *105* | | | *77-113* | *%REC* | *1* | *30-Oct-2025 01:18* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *30-Oct-2025 01:18* |
| *Surr: Toluene-d8* | *96.6* | | | *82-127* | *%REC* | *1* | *30-Oct-2025 01:18* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 10:44 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 10:44 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 10:44 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *107* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 10:44* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *109* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 10:44* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:10 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:10 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:10 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:10 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:10 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:10 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:10 |
| *Surr: 1-Chlorooctadecane* | *69.1* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 23:10* |
| *Surr: 2-Bromonaphthalene* | *76.9* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 23:10* |
| *Surr: 2-Fluorobiphenyl* | *75.7* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 23:10* |
| *Surr: o-Terphenyl* | *62.3* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 23:10* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-07
Collection Date: 21-Oct-2025 15:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-11
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.000845** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| **Barium** | **0.226** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| **Calcium** | **73.9** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:29 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:29 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:29 |
| **Magnesium** | **14.2** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| **Manganese** | **0.273** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:29 |
| **Potassium** | **2.74** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| **Sodium** | **170** | | **0.130** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| **Strontium** | **0.533** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| **Vanadium** | **0.00196** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| **Zinc** | **0.00527** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:29 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:43 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **734** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **166** | | **1.20** | **5.00** | **mg/L** | 1 | 23-Oct-2025 00:04 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 23-Oct-2025 00:04 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.02** | H | **0.100** | **1.00** | **pH Units** | 1 | 23-Oct-2025 00:04 |
| **Temp Deg C @pH** | **21.7** | H | **0** | **0** | **°C** | 1 | 23-Oct-2025 00:04 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 20:25 |
| **Chloride** | **284** | | **2.00** | **5.00** | **mg/L** | 10 | 28-Oct-2025 20:48 |
| **Sulfate** | **63.0** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 20:25 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SW-DUP-01
Collection Date: 21-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-12
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 30-Oct-2025 01:41 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 01:41 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 30-Oct-2025 01:41 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 30-Oct-2025 01:41 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 30-Oct-2025 01:41 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 30-Oct-2025 01:41 |
| *Surr: 1,2-Dichloroethane-d4* | *106* | | | *70-126* | *%REC* | *1* | *30-Oct-2025 01:41* |
| *Surr: 4-Bromofluorobenzene* | *104* | | | *77-113* | *%REC* | *1* | *30-Oct-2025 01:41* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *30-Oct-2025 01:41* |
| *Surr: Toluene-d8* | *96.5* | | | *82-127* | *%REC* | *1* | *30-Oct-2025 01:41* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 11:23 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 11:23 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 11:23 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *104* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 11:23* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *104* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 11:23* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:39 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:39 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:39 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:39 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:39 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:39 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Oct-2025 23:39 |
| *Surr: 1-Chlorooctadecane* | *66.2* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 23:39* |
| *Surr: 2-Bromonaphthalene* | *83.0* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 23:39* |
| *Surr: 2-Fluorobiphenyl* | *80.0* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 23:39* |
| *Surr: o-Terphenyl* | *67.2* | | | *40-140* | *%REC* | *1* | *28-Oct-2025 23:39* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SW-DUP-01
Collection Date: 21-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-12
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.000949** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| **Barium** | **0.237** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| **Calcium** | **73.7** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:32 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:32 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:32 |
| **Magnesium** | **14.3** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| **Manganese** | **0.341** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:32 |
| **Potassium** | **2.67** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| **Sodium** | **174** | | **0.130** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| **Strontium** | **0.531** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| **Vanadium** | **0.00250** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| **Zinc** | **0.00566** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:32 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:45 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **768** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **164** | | **1.20** | **5.00** | **mg/L** | 1 | 23-Oct-2025 00:10 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 23-Oct-2025 00:10 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.98** | H | **0.100** | **1.00** | **pH Units** | 1 | 23-Oct-2025 00:10 |
| **Temp Deg C @pH** | **21.9** | H | **0** | **0** | **°C** | 1 | 23-Oct-2025 00:10 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 20:31 |
| **Chloride** | **290** | | **2.00** | **5.00** | **mg/L** | 10 | 28-Oct-2025 20:54 |
| **Sulfate** | **62.8** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 20:31 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-380
Collection Date: 21-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-13
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 12:20 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 12:20 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 12:20 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 12:20 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 12:20 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 12:20 |
| *Surr: 1,2-Dichloroethane-d4* | *95.8* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 12:20* |
| *Surr: 4-Bromofluorobenzene* | *113* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 12:20* |
| *Surr: Dibromofluoromethane* | *92.3* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 12:20* |
| *Surr: Toluene-d8* | *101* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 12:20* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-385
Collection Date: 21-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-14
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 12:43 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 12:43 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 12:43 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 12:43 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 12:43 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 12:43 |
| *Surr: 1,2-Dichloroethane-d4* | *103* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 12:43* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 12:43* |
| *Surr: Dibromofluoromethane* | *102* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 12:43* |
| *Surr: Toluene-d8* | *96.4* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 12:43* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-370
Collection Date: 21-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-15
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 15:46 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 15:46 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 15:46 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 15:46 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 15:46 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 15:46 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 15:46* |
| *Surr: 4-Bromofluorobenzene* | *109* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 15:46* |
| *Surr: Dibromofluoromethane* | *103* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 15:46* |
| *Surr: Toluene-d8* | *97.2* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 15:46* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-377
Collection Date: 21-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-16
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 16:09 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 16:09 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 16:09 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 16:09 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 16:09 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 16:09 |
| *Surr: 1,2-Dichloroethane-d4* | *104* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 16:09* |
| *Surr: 4-Bromofluorobenzene* | *104* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 16:09* |
| *Surr: Dibromofluoromethane* | *100.0* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 16:09* |
| *Surr: Toluene-d8* | *97.2* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 16:09* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-387
Collection Date: 21-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-17
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 16:32 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 16:32 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 16:32 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 16:32 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 16:32 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 16:32 |
| *Surr: 1,2-Dichloroethane-d4* | *96.8* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 16:32* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 16:32* |
| *Surr: Dibromofluoromethane* | *102* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 16:32* |
| *Surr: Toluene-d8* | *95.8* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 16:32* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-102225
Collection Date: 22-Oct-2025 08:15

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-18
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 16:55 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 16:55 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 16:55 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 16:55 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 16:55 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 16:55 |
| *Surr: 1,2-Dichloroethane-d4* | *103* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 16:55* |
| *Surr: 4-Bromofluorobenzene* | *103* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 16:55* |
| *Surr: Dibromofluoromethane* | *100* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 16:55* |
| *Surr: Toluene-d8* | *96.6* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 16:55* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 02:57 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 02:57 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 02:57 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *97.2* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 02:57* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *100* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 02:57* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:08 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:08 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:08 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:08 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:08 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:08 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:08 |
| *Surr: 1-Chlorooctadecane* | *72.6* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 00:08* |
| *Surr: 2-Bromonaphthalene* | *76.9* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 00:08* |
| *Surr: 2-Fluorobiphenyl* | *75.3* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 00:08* |
| *Surr: o-Terphenyl* | *64.6* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 00:08* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-102225
Collection Date: 22-Oct-2025 08:15

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-18
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:34 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:34 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 30-Oct-2025 19:34 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:34 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:34 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:34 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 30-Oct-2025 19:34 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:34 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:34 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 30-Oct-2025 19:34 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 30-Oct-2025 19:34 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:34 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:34 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 30-Oct-2025 19:34 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:47 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| Total Dissolved Solids (Residue, Filterable) | U | | 3.00 | 10.0 | mg/L | 1 | 28-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 23-Oct-2025 00:14 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 23-Oct-2025 00:14 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.34** | H | **0.100** | **1.00** | **pH Units** | 1 | 23-Oct-2025 00:14 |
| **Temp Deg C @pH** | **22.1** | H | **0** | **0** | **°C** | 1 | 23-Oct-2025 00:14 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 18:16 |
| **Chloride** | **0.238** | J | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 18:16 |
| **Sulfate** | **0.228** | J | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 18:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Rinsate
Collection Date: 22-Oct-2025 09:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-19
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 17:18 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 17:18 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 17:18 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 17:18 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 17:18 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 17:18 |
| *Surr: 1,2-Dichloroethane-d4* | *104* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 17:18* |
| *Surr: 4-Bromofluorobenzene* | *104* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 17:18* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 17:18* |
| *Surr: Toluene-d8* | *97.9* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 17:18* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 03:36 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 03:36 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 03:36 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *100* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 03:36* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *98.8* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 03:36* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:36 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:36 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:36 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:36 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:36 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:36 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 00:36 |
| *Surr: 1-Chlorooctadecane* | *62.6* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 00:36* |
| *Surr: 2-Bromonaphthalene* | *85.9* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 00:36* |
| *Surr: 2-Fluorobiphenyl* | *84.0* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 00:36* |
| *Surr: o-Terphenyl* | *66.2* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 00:36* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Rinsate
Collection Date: 22-Oct-2025 09:00

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-19
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:36 |
| **Barium** | **0.00158** | J | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:36 |
| **Calcium** | **0.170** | J | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:36 |
| **Chromium** | **0.00262** | J | **0.00173** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:36 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:36 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:36 |
| **Magnesium** | **0.0689** | J | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:36 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:36 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:36 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 30-Oct-2025 19:36 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 30-Oct-2025 19:36 |
| **Strontium** | **0.000649** | J | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:36 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:36 |
| **Zinc** | **0.00639** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:36 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:48 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| Total Dissolved Solids (Residue, Filterable) | U | | 3.00 | 10.0 | mg/L | 1 | 28-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 23-Oct-2025 00:18 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 23-Oct-2025 00:18 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **6.16** | H | **0.100** | **1.00** | **pH Units** | 1 | 23-Oct-2025 00:18 |
| **Temp Deg C @pH** | **22.1** | H | **0** | **0** | **°C** | 1 | 23-Oct-2025 00:18 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 21:06 |
| **Chloride** | **0.273** | J | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 21:06 |
| **Sulfate** | **0.327** | J | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 21:06 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-08
Collection Date: 22-Oct-2025 10:20

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-20
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 19:35 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 19:35 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 19:35 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 19:35 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 19:35 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 19:35 |
| *Surr: 1,2-Dichloroethane-d4* | *99.0* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 19:35* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 19:35* |
| *Surr: Dibromofluoromethane* | *104* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 19:35* |
| *Surr: Toluene-d8* | *96.9* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 19:35* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 13:20 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 13:20 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 13:20 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *93.6* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 13:20* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *93.6* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 13:20* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 01:05 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 01:05 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 01:05 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 01:05 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 01:05 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 01:05 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 01:05 |
| *Surr: 1-Chlorooctadecane* | *64.7* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 01:05* |
| *Surr: 2-Bromonaphthalene* | *77.8* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 01:05* |
| *Surr: 2-Fluorobiphenyl* | *76.1* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 01:05* |
| *Surr: o-Terphenyl* | *63.4* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 01:05* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-08
Collection Date: 22-Oct-2025 10:20

**ANALYTICAL REPORT**
WorkOrder:HS25101106
Lab ID:HS25101106-20
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.000888** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| **Barium** | **0.239** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| **Calcium** | **74.7** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:39 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 30-Oct-2025 19:39 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 19:39 |
| **Magnesium** | **14.7** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| **Manganese** | **0.295** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 30-Oct-2025 19:39 |
| **Potassium** | **2.78** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| **Sodium** | **180** | | **0.130** | **0.500** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| **Strontium** | **0.557** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| **Vanadium** | **0.00185** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| **Zinc** | **0.00594** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 19:39 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Oct-2025 13:50 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **920** | | **3.00** | **10.0** | **mg/L** | 1 | 28-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **167** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Oct-2025 20:52 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 24-Oct-2025 20:52 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 23-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.99** | H | **0.100** | **1.00** | **pH Units** | 1 | 24-Oct-2025 20:52 |
| **Temp Deg C @pH** | **22.4** | H | **0** | **0** | **°C** | 1 | 24-Oct-2025 20:52 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 28-Oct-2025 20:37 |
| **Chloride** | **287** | | **2.00** | **5.00** | **mg/L** | 10 | 28-Oct-2025 21:00 |
| **Sulfate** | **64.0** | | **0.200** | **0.500** | **mg/L** | 1 | 28-Oct-2025 20:37 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**Batch ID:** 234676 **Start Date:** 24 Oct 2025 08:28 **End Date:** 24 Oct 2025 08:28
**Method:** MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101106-01 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-02 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-03 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-04 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-05 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-06 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-07 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-08 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-09 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-10 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-11 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-12 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-18 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-19 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101106-20 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |

**Batch ID:** 234880 **Start Date:** 29 Oct 2025 09:00 **End Date:** 29 Oct 2025 09:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101106-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-12 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-18 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-19 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-20 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**Batch ID:** 234922 **Start Date:** 30 Oct 2025 07:00 **End Date:** 30 Oct 2025 07:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101106-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-12 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-18 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-19 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101106-20 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 234676 ( 0 ) | **Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019 | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | 24 Oct 2025 08:28 | 28 Oct 2025 17:24 | 1 |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | 24 Oct 2025 08:28 | 28 Oct 2025 17:24 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | 24 Oct 2025 08:28 | 28 Oct 2025 17:52 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | 24 Oct 2025 08:28 | 28 Oct 2025 17:52 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | 24 Oct 2025 08:28 | 28 Oct 2025 18:21 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | 24 Oct 2025 08:28 | 28 Oct 2025 18:21 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | 24 Oct 2025 08:28 | 28 Oct 2025 18:50 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | 24 Oct 2025 08:28 | 28 Oct 2025 18:50 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | 24 Oct 2025 08:28 | 28 Oct 2025 19:19 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | 24 Oct 2025 08:28 | 28 Oct 2025 19:19 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | 24 Oct 2025 08:28 | 28 Oct 2025 19:48 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | 24 Oct 2025 08:28 | 28 Oct 2025 19:48 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | 24 Oct 2025 08:28 | 28 Oct 2025 20:17 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | 24 Oct 2025 08:28 | 28 Oct 2025 20:17 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | 24 Oct 2025 08:28 | 28 Oct 2025 21:43 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | 24 Oct 2025 08:28 | 28 Oct 2025 21:43 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | 24 Oct 2025 08:28 | 28 Oct 2025 22:12 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | 24 Oct 2025 08:28 | 28 Oct 2025 22:12 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | 24 Oct 2025 08:28 | 28 Oct 2025 22:41 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | 24 Oct 2025 08:28 | 28 Oct 2025 22:41 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | 24 Oct 2025 08:28 | 28 Oct 2025 23:10 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | 24 Oct 2025 08:28 | 28 Oct 2025 23:10 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | 24 Oct 2025 08:28 | 28 Oct 2025 23:39 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | 24 Oct 2025 08:28 | 28 Oct 2025 23:39 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | 24 Oct 2025 08:28 | 29 Oct 2025 00:08 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | 24 Oct 2025 08:28 | 29 Oct 2025 00:08 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | 24 Oct 2025 08:28 | 29 Oct 2025 00:36 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | 24 Oct 2025 08:28 | 29 Oct 2025 00:36 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | 24 Oct 2025 08:28 | 29 Oct 2025 01:05 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | 24 Oct 2025 08:28 | 29 Oct 2025 01:05 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 234880 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:58 | 50 |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | 29 Oct 2025 09:00 | 30 Oct 2025 18:43 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:00 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:03 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | 29 Oct 2025 09:00 | 30 Oct 2025 20:03 | 20 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:05 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:08 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:10 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | 29 Oct 2025 09:00 | 30 Oct 2025 20:05 | 20 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:12 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | 29 Oct 2025 09:00 | 30 Oct 2025 20:07 | 20 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:15 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | 29 Oct 2025 09:00 | 30 Oct 2025 20:10 | 20 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:17 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:27 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:29 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:32 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:34 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:36 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | 29 Oct 2025 09:00 | 30 Oct 2025 19:39 | 1 |
| **Batch ID:** 234922 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:13 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:22 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:23 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:25 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:27 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:28 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:36 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:38 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:40 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:41 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:43 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:45 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:47 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:48 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | 30 Oct 2025 07:00 | 30 Oct 2025 13:50 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R524646 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 22 Oct 2025 22:52 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | | 22 Oct 2025 23:03 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | | 22 Oct 2025 23:08 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 22 Oct 2025 23:14 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | | 22 Oct 2025 23:19 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 22 Oct 2025 23:24 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 22 Oct 2025 23:42 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 22 Oct 2025 23:48 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 22 Oct 2025 23:53 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 22 Oct 2025 23:59 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 23 Oct 2025 00:04 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 23 Oct 2025 00:10 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | | 23 Oct 2025 00:14 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | | 23 Oct 2025 00:18 | 1 |
| **Batch ID:** R524648 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 22 Oct 2025 22:52 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | | 22 Oct 2025 23:03 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | | 22 Oct 2025 23:08 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 22 Oct 2025 23:14 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | | 22 Oct 2025 23:19 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 22 Oct 2025 23:24 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 22 Oct 2025 23:42 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 22 Oct 2025 23:48 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 22 Oct 2025 23:53 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 22 Oct 2025 23:59 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 23 Oct 2025 00:04 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 23 Oct 2025 00:10 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | | 23 Oct 2025 00:14 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | | 23 Oct 2025 00:18 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R524796 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 23 Oct 2025 16:30 | 1 |
| **Batch ID:** R524814 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 24 Oct 2025 09:00 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 24 Oct 2025 09:00 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R524821 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | | 23 Oct 2025 16:30 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 23 Oct 2025 16:30 | 1 |
| **Batch ID:** R524950 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 24 Oct 2025 20:52 | 1 |
| **Batch ID:** R524954 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 24 Oct 2025 20:52 | 1 |
| **Batch ID:** R525068 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | | 28 Oct 2025 09:00 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | | 28 Oct 2025 09:00 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 28 Oct 2025 09:00 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525124 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 28 Oct 2025 18:22 | 50 |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 28 Oct 2025 17:46 | 2 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | | 28 Oct 2025 17:58 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | | 28 Oct 2025 18:04 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 28 Oct 2025 18:27 | 50 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 28 Oct 2025 17:52 | 2 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | | 28 Oct 2025 18:10 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 28 Oct 2025 19:03 | 10 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 28 Oct 2025 18:57 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 28 Oct 2025 19:38 | 10 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 28 Oct 2025 19:20 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 28 Oct 2025 19:44 | 10 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 28 Oct 2025 19:26 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 28 Oct 2025 19:50 | 10 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 28 Oct 2025 19:32 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 28 Oct 2025 20:43 | 10 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 28 Oct 2025 20:19 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 28 Oct 2025 20:48 | 10 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 28 Oct 2025 20:25 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 28 Oct 2025 20:54 | 10 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 28 Oct 2025 20:31 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | | 28 Oct 2025 18:16 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | | 28 Oct 2025 21:06 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 28 Oct 2025 21:00 | 10 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 28 Oct 2025 20:37 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome **DATES REPORT**
**WorkOrder:** HS25101106

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525143 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 29 Oct 2025 18:26 | 1 |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | | 29 Oct 2025 17:40 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | | 29 Oct 2025 18:49 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 29 Oct 2025 19:12 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | | 29 Oct 2025 18:03 | 1 |
| HS25101106-13 | CG-100125-380 | 21 Oct 2025 00:00 | | | 29 Oct 2025 12:20 | 1 |
| HS25101106-14 | CG-100125-385 | 21 Oct 2025 00:00 | | | 29 Oct 2025 12:43 | 1 |
| HS25101106-15 | CG-100125-370 | 21 Oct 2025 00:00 | | | 29 Oct 2025 15:46 | 1 |
| HS25101106-16 | CG-100125-377 | 21 Oct 2025 00:00 | | | 29 Oct 2025 16:09 | 1 |
| HS25101106-17 | CG-100125-387 | 21 Oct 2025 00:00 | | | 29 Oct 2025 16:32 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | | 29 Oct 2025 16:55 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | | 29 Oct 2025 17:18 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 29 Oct 2025 19:35 | 1 |
| **Batch ID:** R525238 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 29 Oct 2025 23:24 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 29 Oct 2025 23:46 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 30 Oct 2025 00:09 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 30 Oct 2025 00:32 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 30 Oct 2025 00:55 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 30 Oct 2025 01:18 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 30 Oct 2025 01:41 | 1 |
| **Batch ID:** R525349 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | | 30 Oct 2025 01:39 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | | 30 Oct 2025 06:12 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 30 Oct 2025 06:51 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | | 30 Oct 2025 02:18 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 30 Oct 2025 07:30 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 30 Oct 2025 08:09 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 30 Oct 2025 08:48 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 30 Oct 2025 09:26 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 30 Oct 2025 10:05 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 30 Oct 2025 10:44 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 30 Oct 2025 11:23 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | | 30 Oct 2025 02:57 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | | 30 Oct 2025 03:36 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 30 Oct 2025 13:20 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525350 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101106-02 | FB-102025 | 20 Oct 2025 16:10 | | | 30 Oct 2025 01:39 | 1 |
| HS25101106-03 | MW-3-200 | 21 Oct 2025 10:30 | | | 30 Oct 2025 06:12 | 1 |
| HS25101106-04 | MW-3-700 | 21 Oct 2025 12:30 | | | 30 Oct 2025 06:51 | 1 |
| HS25101106-05 | FB-102125 | 21 Oct 2025 15:30 | | | 30 Oct 2025 02:18 | 1 |
| HS25101106-06 | LDNR-25 | 21 Oct 2025 10:50 | | | 30 Oct 2025 07:30 | 1 |
| HS25101106-07 | LDNR-13 | 21 Oct 2025 11:15 | | | 30 Oct 2025 08:09 | 1 |
| HS25101106-08 | LDNR-14 | 21 Oct 2025 11:40 | | | 30 Oct 2025 08:48 | 1 |
| HS25101106-09 | LDNR-12 | 21 Oct 2025 14:15 | | | 30 Oct 2025 09:26 | 1 |
| HS25101106-10 | LDNR-06 | 21 Oct 2025 14:30 | | | 30 Oct 2025 10:05 | 1 |
| HS25101106-11 | LDNR-07 | 21 Oct 2025 15:00 | | | 30 Oct 2025 10:44 | 1 |
| HS25101106-12 | SW-DUP-01 | 21 Oct 2025 00:00 | | | 30 Oct 2025 11:23 | 1 |
| HS25101106-18 | FB-102225 | 22 Oct 2025 08:15 | | | 30 Oct 2025 02:57 | 1 |
| HS25101106-19 | Rinsate | 22 Oct 2025 09:00 | | | 30 Oct 2025 03:36 | 1 |
| HS25101106-20 | LDNR-08 | 22 Oct 2025 10:20 | | | 30 Oct 2025 13:20 | 1 |
| **Batch ID:** R525356 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 30 Oct 2025 23:02 | 20 |
| **Batch ID:** R525359 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101106-01 | MW-3-500 | 20 Oct 2025 16:00 | | | 30 Oct 2025 23:02 | 20 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: 234676 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MBLK** Sample ID: **MBLK-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 15:57**
Client ID: Run ID: **FID23_525145** SeqNo: **9109800** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aliphatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aliphatics >C16 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02555* | *0* | *0.04* | *0* | *63.9* | *40 - 140* | | | | |

**MBLK** Sample ID: **MBLK-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 15:57**
Client ID: Run ID: **FID-22_525146** SeqNo: **9109825** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aromatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aromatics >C16 - C21 | U | 0.100 | | | | | | | | |
| Aromatics >C21 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03999* | *0* | *0.04* | *0* | *100.0* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03952* | *0* | *0.04* | *0* | *98.8* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03397* | *0* | *0.04* | *0* | *84.9* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 16:26**
Client ID: Run ID: **FID23_525145** SeqNo: **9109801** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04547 | 0.100 | 0.05 | 0 | 90.9 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.09422 | 0.100 | 0.1 | 0 | 94.2 | 40 - 140 | | | | J |
| Aliphatics >C16 - C35 | 0.3709 | 0.100 | 0.4 | 0 | 92.7 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02325* | *0* | *0.04* | *0* | *58.1* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: 234676 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**LCS** Sample ID: **LCS-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 16:26**
Client ID: Run ID: **FID-22_525146** SeqNo: **9109826** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04598 | 0.100 | 0.05 | 0 | 92.0 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1718 | 0.100 | 0.2 | 0 | 85.9 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1413 | 0.100 | 0.15 | 0 | 94.2 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.4337 | 0.100 | 0.45 | 0 | 96.4 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03848* | *0* | *0.04* | *0* | *96.2* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03755* | *0* | *0.04* | *0* | *93.9* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03024* | *0* | *0.04* | *0* | *75.6* | *40 - 140* | | | | |

**LCSD** Sample ID: **LCSD-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 16:55**
Client ID: Run ID: **FID23_525145** SeqNo: **9109802** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04628 | 0.100 | 0.05 | 0 | 92.6 | 40 - 140 | 0.04547 | 0 | 50 | J |
| Aliphatics >C12 - C16 | 0.09571 | 0.100 | 0.1 | 0 | 95.7 | 40 - 140 | 0.09422 | 0 | 50 | J |
| Aliphatics >C16 - C35 | 0.3758 | 0.100 | 0.4 | 0 | 93.9 | 40 - 140 | 0.3709 | 1.29 | 50 | |
| *Surr: 1-Chlorooctadecane* | *0.02353* | *0* | *0.04* | *0* | *58.8* | *40 - 140* | *0.02325* | *1.2* | *50* | |

**LCSD** Sample ID: **LCSD-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 16:55**
Client ID: Run ID: **FID-22_525146** SeqNo: **9109827** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04577 | 0.100 | 0.05 | 0 | 91.5 | 40 - 140 | 0.04598 | 0 | 50 | J |
| Aromatics >C12 - C16 | 0.1733 | 0.100 | 0.2 | 0 | 86.7 | 40 - 140 | 0.1718 | 0.881 | 50 | |
| Aromatics >C16 - C21 | 0.1408 | 0.100 | 0.15 | 0 | 93.8 | 40 - 140 | 0.1413 | 0.413 | 50 | |
| Aromatics >C21 - C35 | 0.4312 | 0.100 | 0.45 | 0 | 95.8 | 40 - 140 | 0.4337 | 0.593 | 50 | |
| *Surr: 2-Bromonaphthalene* | *0.0385* | *0* | *0.04* | *0* | *96.3* | *40 - 140* | *0.03848* | *0.0541* | *50* | |
| *Surr: 2-Fluorobiphenyl* | *0.03764* | *0* | *0.04* | *0* | *94.1* | *40 - 140* | *0.03755* | *0.24* | *50* | |
| *Surr: o-Terphenyl* | *0.03012* | *0* | *0.04* | *0* | *75.3* | *40 - 140* | *0.03024* | *0.371* | *50* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-06 | HS25101106-07 | HS25101106-08 |
| HS25101106-09 | HS25101106-10 | HS25101106-11 | HS25101106-12 |
| HS25101106-18 | HS25101106-19 | HS25101106-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R525349 ( 0 )** **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MBLK** Sample ID: **MBLK-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 23:03**
Client ID: Run ID: **FID-14_525349** SeqNo: **9114778** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.275* | *0.0100* | *0.25* | *0* | *110* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 21:46**
Client ID: Run ID: **FID-14_525349** SeqNo: **9114780** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.028 | 0.00500 | 0.025 | 0 | 112 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.025 | 0.00500 | 0.025 | 0 | 100 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.266* | *0.0100* | *0.25* | *0* | *106* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 22:24**
Client ID: Run ID: **FID-14_525349** SeqNo: **9114777** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.028 | 0.00500 | 0.025 | 0 | 112 | 70 - 130 | 0.028 | 0 | 25 | |
| Aliphatics >C8 - C10 | 0.024 | 0.00500 | 0.025 | 0 | 96.0 | 70 - 130 | 0.025 | 4.08 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.245* | *0.0100* | *0.25* | *0* | *98.0* | *70 - 130* | *0.266* | *8.22* | *25* | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **30-Oct-2025 15:16**
Client ID: Run ID: **FID-14_525349** SeqNo: **9114791** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.0209 | 0.00500 | 0.025 | 0 | 83.6 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.235* | *0.0100* | *0.25* | *0* | *94.0* | *70 - 130* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID:** R525349 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **30-Oct-2025 15:55**
Client ID: Run ID: **FID-14_525349** SeqNo: **9114793** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.031 | 0.00500 | 0.025 | 0 | 124 | 70 - 130 | 0.027 | 13.8 | 25 | |
| Aliphatics >C8 - C10 | 0.0189 | 0.00500 | 0.025 | 0 | 75.6 | 70 - 130 | 0.0209 | 10.1 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.273* | *0.0100* | *0.25* | *0* | *109* | *70 - 130* | *0.235* | *15* | *25* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-02 | HS25101106-03 | HS25101106-04 | HS25101106-05 |
| HS25101106-06 | HS25101106-07 | HS25101106-08 | HS25101106-09 |
| HS25101106-10 | HS25101106-11 | HS25101106-12 | HS25101106-18 |
| HS25101106-19 | HS25101106-20 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID:** R525350 ( 0 ) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 23:03**
Client ID: Run ID: **FID-15_525350** SeqNo: **9114898** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.275* | *0.0100* | *0.25* | *0* | *110* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 21:46**
Client ID: Run ID: **FID-15_525350** SeqNo: **9114900** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0851 | 0.0200 | 0.075 | 0 | 113 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.266* | *0.0100* | *0.25* | *0* | *106* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 22:24**
Client ID: Run ID: **FID-15_525350** SeqNo: **9114897** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0832 | 0.0200 | 0.075 | 0 | 111 | 70 - 130 | 0.0851 | 2.26 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.245* | *0.0100* | *0.25* | *0* | *98.0* | *70 - 130* | *0.266* | *8.22* | *25* | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **30-Oct-2025 15:16**
Client ID: Run ID: **FID-15_525350** SeqNo: **9114911** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0845 | 0.0200 | 0.075 | 0 | 113 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.235* | *0.0100* | *0.25* | *0* | *94.0* | *70 - 130* | | | | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **30-Oct-2025 15:55**
Client ID: Run ID: **FID-15_525350** SeqNo: **9114913** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0742 | 0.0200 | 0.075 | 0 | 98.9 | 70 - 130 | 0.0845 | 13 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.273* | *0.0100* | *0.25* | *0* | *109* | *70 - 130* | *0.235* | *15* | *25* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-02 | HS25101106-03 | HS25101106-04 | HS25101106-05 |
| HS25101106-06 | HS25101106-07 | HS25101106-08 | HS25101106-09 |
| HS25101106-10 | HS25101106-11 | HS25101106-12 | HS25101106-18 |
| HS25101106-19 | HS25101106-20 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R525356 ( 0 )** **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MBLK** Sample ID: **MBLK-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 21:05**
Client ID: Run ID: **FID-14_525356** SeqNo: **9114985** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.252* | *0.0100* | *0.25* | *0* | *101* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 19:47**
Client ID: Run ID: **FID-14_525356** SeqNo: **9114983** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.248* | *0.0100* | *0.25* | *0* | *99.2* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 20:26**
Client ID: Run ID: **FID-14_525356** SeqNo: **9114984** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.028 | 0.00500 | 0.025 | 0 | 112 | 70 - 130 | 0.027 | 3.64 | 25 | |
| Aliphatics >C8 - C10 | 0.028 | 0.00500 | 0.025 | 0 | 112 | 70 - 130 | 0.027 | 3.64 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.268* | *0.0100* | *0.25* | *0* | *107* | *70 - 130* | *0.248* | *7.75* | *25* | |

**The following samples were analyzed in this batch:** HS25101106-01



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID:** R525359 ( 0 ) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 21:05**
Client ID: Run ID: **FID-15_525359** SeqNo: **9115012** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.255* | *0.0100* | *0.25* | *0* | *102* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 19:47**
Client ID: Run ID: **FID-15_525359** SeqNo: **9115010** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0916 | 0.0200 | 0.075 | 0 | 122 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.248* | *0.0100* | *0.25* | *0* | *99.2* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 20:26**
Client ID: Run ID: **FID-15_525359** SeqNo: **9115011** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.095 | 0.0200 | 0.075 | 0 | 127 | 70 - 130 | 0.0916 | 3.64 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.27* | *0.0100* | *0.25* | *0* | *108* | *70 - 130* | *0.248* | *8.49* | *25* | |

**The following samples were analyzed in this batch:** HS25101106-01



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: 234880 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-234880** Units: **mg/L** Analysis Date: **30-Oct-2025 18:24**
Client ID: Run ID: **ICPMS07_525232** SeqNo: **9113976** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | | |
| Barium | U | 0.00500 | | | | | | | | |
| Calcium | U | 0.500 | | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | | |
| Iron | U | 0.200 | | | | | | | | |
| Lead | U | 0.00200 | | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | | |
| Potassium | U | 0.500 | | | | | | | | |
| Sodium | U | 0.500 | | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | | |

**LCS** Sample ID: **LCS-234880** Units: **mg/L** Analysis Date: **30-Oct-2025 18:26**
Client ID: Run ID: **ICPMS07_525232** SeqNo: **9113977** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05189 | 0.00200 | 0.05 | 0 | 104 | 80 - 120 | | | | |
| Barium | 0.04833 | 0.00500 | 0.05 | 0 | 96.7 | 80 - 120 | | | | |
| Calcium | 5.177 | 0.500 | 5 | 0 | 104 | 80 - 120 | | | | |
| Chromium | 0.04966 | 0.00500 | 0.05 | 0 | 99.3 | 80 - 120 | | | | |
| Iron | 5.061 | 0.200 | 5 | 0 | 101 | 80 - 120 | | | | |
| Lead | 0.05149 | 0.00200 | 0.05 | 0 | 103 | 80 - 120 | | | | |
| Magnesium | 5.114 | 0.200 | 5 | 0 | 102 | 80 - 120 | | | | |
| Manganese | 0.05227 | 0.00500 | 0.05 | 0 | 105 | 80 - 120 | | | | |
| Nickel | 0.05313 | 0.00500 | 0.05 | 0 | 106 | 80 - 120 | | | | |
| Potassium | 5.033 | 0.500 | 5 | 0 | 101 | 80 - 120 | | | | |
| Sodium | 5.108 | 0.500 | 5 | 0 | 102 | 80 - 120 | | | | |
| Strontium | 0.1017 | 0.00500 | 0.1 | 0 | 102 | 80 - 120 | | | | |
| Vanadium | 0.04997 | 0.00500 | 0.05 | 0 | 99.9 | 80 - 120 | | | | |
| Zinc | 0.05591 | 0.0100 | 0.05 | 0 | 112 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: 234880 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **30-Oct-2025 18:33**
Client ID: Run ID: **ICPMS07_525232** SeqNo: **9113980** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05124 | 0.00200 | 0.05 | 0.001027 | 100 | 80 - 120 | | | | |
| Barium | 0.162 | 0.00500 | 0.05 | 0.1116 | 101 | 80 - 120 | | | | |
| Calcium | 14.59 | 0.500 | 5 | 8.596 | 120 | 80 - 120 | | | | |
| Chromium | 0.04984 | 0.00500 | 0.05 | 0.000129 | 99.4 | 80 - 120 | | | | |
| Iron | 7.715 | 0.200 | 5 | 2.609 | 102 | 80 - 120 | | | | |
| Lead | 0.05121 | 0.00200 | 0.05 | 0.000185 | 102 | 80 - 120 | | | | |
| Magnesium | 6.587 | 0.200 | 5 | 1.312 | 105 | 80 - 120 | | | | |
| Manganese | 0.1297 | 0.00500 | 0.05 | 0.06697 | 126 | 80 - 120 | | | | S |
| Nickel | 0.05227 | 0.00500 | 0.05 | 0.001311 | 102 | 80 - 120 | | | | |
| Potassium | 58.95 | 0.500 | 5 | 50.94 | 160 | 80 - 120 | | | | SO |
| Sodium | 77.26 | 0.500 | 5 | 65.71 | 231 | 80 - 120 | | | | SO |
| Strontium | 0.6721 | 0.00500 | 0.1 | 0.5966 | 75.5 | 80 - 120 | | | | SO |
| Vanadium | 0.05019 | 0.00500 | 0.05 | 0.000618 | 99.1 | 80 - 120 | | | | |
| Zinc | 0.0593 | 0.0100 | 0.05 | 0.006357 | 106 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **30-Oct-2025 18:36**
Client ID: Run ID: **ICPMS07_525232** SeqNo: **9113981** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05227 | 0.00200 | 0.05 | 0.001027 | 102 | 80 - 120 | 0.05124 | 1.99 | 20 | |
| Barium | 0.1617 | 0.00500 | 0.05 | 0.1116 | 100 | 80 - 120 | 0.162 | 0.149 | 20 | |
| Calcium | 14.69 | 0.500 | 5 | 8.596 | 122 | 80 - 120 | 14.59 | 0.649 | 20 | S |
| Chromium | 0.05031 | 0.00500 | 0.05 | 0.000129 | 100 | 80 - 120 | 0.04984 | 0.935 | 20 | |
| Iron | 7.855 | 0.200 | 5 | 2.609 | 105 | 80 - 120 | 7.715 | 1.8 | 20 | |
| Lead | 0.05295 | 0.00200 | 0.05 | 0.000185 | 106 | 80 - 120 | 0.05121 | 3.34 | 20 | |
| Magnesium | 6.622 | 0.200 | 5 | 1.312 | 106 | 80 - 120 | 6.587 | 0.541 | 20 | |
| Manganese | 0.1329 | 0.00500 | 0.05 | 0.06697 | 132 | 80 - 120 | 0.1297 | 2.44 | 20 | S |
| Nickel | 0.05322 | 0.00500 | 0.05 | 0.001311 | 104 | 80 - 120 | 0.05227 | 1.82 | 20 | |
| Potassium | 59.6 | 0.500 | 5 | 50.94 | 173 | 80 - 120 | 58.95 | 1.1 | 20 | SO |
| Sodium | 77.77 | 0.500 | 5 | 65.71 | 241 | 80 - 120 | 77.26 | 0.654 | 20 | SO |
| Strontium | 0.6737 | 0.00500 | 0.1 | 0.5966 | 77.1 | 80 - 120 | 0.6721 | 0.241 | 20 | SO |
| Vanadium | 0.05112 | 0.00500 | 0.05 | 0.000618 | 101 | 80 - 120 | 0.05019 | 1.85 | 20 | |
| Zinc | 0.06095 | 0.0100 | 0.05 | 0.006357 | 109 | 80 - 120 | 0.0593 | 2.76 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: 234880 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25101288-15PDS** Units: **mg/L** Analysis Date: **30-Oct-2025 18:38**
Client ID: Run ID: **ICPMS07_525232** SeqNo: **9113982** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.1008 | 0.00200 | 0.1 | 0.001027 | 99.8 | 75 - 125 | | | | |
| Barium | 0.2122 | 0.00500 | 0.1 | 0.1116 | 101 | 75 - 125 | | | | |
| Calcium | 18.16 | 0.500 | 10 | 8.596 | 95.7 | 75 - 125 | | | | |
| Chromium | 0.09738 | 0.00500 | 0.1 | 0.000129 | 97.2 | 75 - 125 | | | | |
| Iron | 12.14 | 0.200 | 10 | 2.609 | 95.3 | 75 - 125 | | | | |
| Lead | 0.1028 | 0.00200 | 0.1 | 0.000185 | 103 | 75 - 125 | | | | |
| Magnesium | 11.25 | 0.200 | 10 | 1.312 | 99.4 | 75 - 125 | | | | |
| Manganese | 0.1716 | 0.00500 | 0.1 | 0.06697 | 105 | 75 - 125 | | | | |
| Nickel | 0.09776 | 0.00500 | 0.1 | 0.001311 | 96.5 | 75 - 125 | | | | |
| Potassium | 61.29 | 0.500 | 10 | 50.94 | 104 | 75 - 125 | | | | O |
| Sodium | 76.41 | 0.500 | 10 | 65.71 | 107 | 75 - 125 | | | | O |
| Strontium | 0.6688 | 0.00500 | 0.1 | 0.5966 | 72.2 | 75 - 125 | | | | SO |
| Vanadium | 0.09889 | 0.00500 | 0.1 | 0.000618 | 98.3 | 75 - 125 | | | | |
| Zinc | 0.1082 | 0.0100 | 0.1 | 0.006357 | 102 | 75 - 125 | | | | |

**SD** Sample ID: **HS25101288-15SD** Units: **mg/L** Analysis Date: **30-Oct-2025 18:31**
Client ID: Run ID: **ICPMS07_525232** SeqNo: **9113979** PrepDate: **29-Oct-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.0100 | | | | | 0.001027 | 0 | 10 | |
| Barium | 0.111 | 0.0250 | | | | | 0.1116 | 0.505 | 10 | |
| Calcium | 9.058 | 2.50 | | | | | 8.596 | 5.38 | 10 | |
| Chromium | U | 0.0250 | | | | | 0.000129 | 0 | 10 | |
| Lead | U | 0.0100 | | | | | 0.000185 | 0 | 10 | |
| Nickel | U | 0.0250 | | | | | 0.001311 | 0 | 10 | |
| Potassium | 54.66 | 2.50 | | | | | 50.94 | 7.31 | 10 | |
| Sodium | 71.52 | 2.50 | | | | | 65.71 | 8.84 | 10 | |
| Strontium | 0.5694 | 0.0250 | | | | | 0.5966 | 4.57 | 10 | |
| Vanadium | U | 0.0250 | | | | | 0.000618 | 0 | 10 | |
| Zinc | U | 0.0500 | | | | | 0.006357 | 0 | 10 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: 234880 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**SD** Sample ID: **HS25101288-15SD** Units: **mg/L** Analysis Date: **30-Oct-2025 19:56**
Client ID: Run ID: **ICPMS07_525232** SeqNo: **9114055** PrepDate: **29-Oct-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 2.695 | 1.00 | | | | | 2.609 | 3.31 | 10 | |
| Magnesium | 1.3 | 1.00 | | | | | 1.312 | 0.945 | 10 | |
| Manganese | 0.06781 | 0.0250 | | | | | 0.06697 | 1.26 | 10 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-06 | HS25101106-07 | HS25101106-08 |
| HS25101106-09 | HS25101106-10 | HS25101106-11 | HS25101106-12 |
| HS25101106-18 | HS25101106-19 | HS25101106-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: 234922 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-234922** Units: **mg/L** Analysis Date: **30-Oct-2025 13:09**
Client ID: Run ID: **HG05_525279** SeqNo: **9113477** PrepDate: **30-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | U | 0.000200 | | | | | | | | |

**LCS** Sample ID: **LCS-234922** Units: **mg/L** Analysis Date: **30-Oct-2025 13:11**
Client ID: Run ID: **HG05_525279** SeqNo: **9113478** PrepDate: **30-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0051 | 0.000200 | 0.005 | 0 | 102 | 80 - 120 | | | | |

**MS** Sample ID: **HS25101106-01MS** Units: **mg/L** Analysis Date: **30-Oct-2025 13:18**
Client ID: **MW-3-500** Run ID: **HG05_525279** SeqNo: **9113480** PrepDate: **30-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00495 | 0.000200 | 0.005 | 0.000001 | 99.0 | 75 - 125 | | | | |

**MSD** Sample ID: **HS25101106-01MSD** Units: **mg/L** Analysis Date: **30-Oct-2025 13:20**
Client ID: **MW-3-500** Run ID: **HG05_525279** SeqNo: **9113481** PrepDate: **30-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00491 | 0.000200 | 0.005 | 0.000001 | 98.2 | 75 - 125 | 0.00495 | 0.811 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-06 | HS25101106-07 | HS25101106-08 |
| HS25101106-09 | HS25101106-10 | HS25101106-11 | HS25101106-12 |
| HS25101106-18 | HS25101106-19 | HS25101106-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R525143 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251027** Units: **mg/L** Analysis Date: **29-Oct-2025 11:18**
Client ID: Run ID: **VOA13_525143** SeqNo: **9110605** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *101* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.053* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.050* | *0.0010* | *0.05* | *0* | *99.9* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.048* | *0.0010* | *0.05* | *0* | *96.0* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **29-Oct-2025 10:10**
Client ID: Run ID: **VOA13_525143** SeqNo: **9109748** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 104 | 74 - 120 | | | | |
| Ethylbenzene | 0.021 | 0.0020 | 0.02 | 0 | 107 | 77 - 117 | | | | |
| m,p-Xylene | 0.042 | 0.0040 | 0.04 | 0 | 105 | 77 - 122 | | | | |
| o-Xylene | 0.021 | 0.0020 | 0.02 | 0 | 105 | 75 - 119 | | | | |
| Toluene | 0.020 | 0.0020 | 0.02 | 0 | 101 | 77 - 118 | | | | |
| Xylenes, Total | 0.063 | 0.0060 | 0.06 | 0 | 105 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.048* | *0.0010* | *0.05* | *0* | *96.2* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *95.1* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.5* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R525143 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD** Units: **mg/L** Analysis Date: **29-Oct-2025 10:33**
Client ID: Run ID: **VOA13_525143** SeqNo: **9109749** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 106 | 74 - 120 | 0.02078 | 1.85 | 20 | |
| Ethylbenzene | 0.022 | 0.0020 | 0.02 | 0 | 108 | 77 - 117 | 0.02144 | 0.349 | 20 | |
| m,p-Xylene | 0.043 | 0.0040 | 0.04 | 0 | 107 | 77 - 122 | 0.04216 | 1.69 | 20 | |
| o-Xylene | 0.022 | 0.0020 | 0.02 | 0 | 110 | 75 - 119 | 0.02098 | 4.91 | 20 | |
| Toluene | 0.021 | 0.0020 | 0.02 | 0 | 104 | 77 - 118 | 0.02025 | 3.11 | 20 | |
| Xylenes, Total | 0.065 | 0.0060 | 0.06 | 0 | 108 | 75 - 122 | 0.06314 | 2.77 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.049* | *0.0010* | *0.05* | *0* | *98.7* | *70 - 123* | *0.04812* | *2.53* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.049* | *0.0010* | *0.05* | *0* | *98.8* | *77 - 113* | *0.05113* | *3.41* | *20* | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *95.8* | *73 - 126* | *0.04756* | *0.708* | *20* | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *100* | *81 - 120* | *0.04926* | *1.71* | *20* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-13 | HS25101106-14 | HS25101106-15 |
| HS25101106-16 | HS25101106-17 | HS25101106-18 | HS25101106-19 |
| HS25101106-20 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R525238 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251027** Units: **mg/L** Analysis Date: **29-Oct-2025 22:38**
Client ID: Run ID: **VOA13_525238** SeqNo: **9112182** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.052* | *0.0010* | *0.05* | *0* | *105* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.053* | *0.0010* | *0.05* | *0* | *106* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.050* | *0.0010* | *0.05* | *0* | *99.6* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.9* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **29-Oct-2025 21:29**
Client ID: Run ID: **VOA13_525238** SeqNo: **9112188** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 105 | 74 - 120 | | | | |
| Ethylbenzene | 0.022 | 0.0020 | 0.02 | 0 | 109 | 77 - 117 | | | | |
| m,p-Xylene | 0.044 | 0.0040 | 0.04 | 0 | 110 | 77 - 122 | | | | |
| o-Xylene | 0.022 | 0.0020 | 0.02 | 0 | 110 | 75 - 119 | | | | |
| Toluene | 0.021 | 0.0020 | 0.02 | 0 | 104 | 77 - 118 | | | | |
| Xylenes, Total | 0.066 | 0.0060 | 0.06 | 0 | 110 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *99.4* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.049* | *0.0010* | *0.05* | *0* | *98.8* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *95.2* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *100.0* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R525238 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD** Units: **mg/L** Analysis Date: **29-Oct-2025 21:52**
Client ID: Run ID: **VOA13_525238** SeqNo: **9112189** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.022 | 0.0010 | 0.02 | 0 | 108 | 74 - 120 | 0.02104 | 2.93 | 20 | |
| Ethylbenzene | 0.022 | 0.0020 | 0.02 | 0 | 108 | 77 - 117 | 0.02175 | 0.618 | 20 | |
| m,p-Xylene | 0.044 | 0.0040 | 0.04 | 0 | 109 | 77 - 122 | 0.04396 | 0.88 | 20 | |
| o-Xylene | 0.022 | 0.0020 | 0.02 | 0 | 108 | 75 - 119 | 0.02204 | 2.26 | 20 | |
| Toluene | 0.021 | 0.0020 | 0.02 | 0 | 105 | 77 - 118 | 0.02076 | 1.33 | 20 | |
| Xylenes, Total | 0.065 | 0.0060 | 0.06 | 0 | 109 | 75 - 122 | 0.06600 | 1.34 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.048* | *0.0010* | *0.05* | *0* | *96.7* | *70 - 123* | *0.04969* | *2.76* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *103* | *77 - 113* | *0.04940* | *3.71* | *20* | |
| *Surr: Dibromofluoromethane* | *0.051* | *0.0010* | *0.05* | *0* | *101* | *73 - 126* | *0.04760* | *6* | *20* | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *99.0* | *81 - 120* | *0.05000* | *0.981* | *20* | |

**The following samples were analyzed in this batch:** HS25101106-06 HS25101106-07 HS25101106-08 HS25101106-09 HS25101106-10 HS25101106-11 HS25101106-12



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R524646 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-10.22.2025** Units: **mg/L** Analysis Date: **22-Oct-2025 22:35**
Client ID: Run ID: **Skalar 03_524646** SeqNo: **9097335** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-10.22.2025** Units: **mg/L** Analysis Date: **22-Oct-2025 22:40**
Client ID: Run ID: **Skalar 03_524646** SeqNo: **9097336** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 981.6 | 5.00 | 1000 | 0 | 98.2 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-10.22.2025** Units: **mg/L** Analysis Date: **22-Oct-2025 22:46**
Client ID: Run ID: **Skalar 03_524646** SeqNo: **9097337** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 987.6 | 5.00 | 1000 | 0 | 98.8 | 85 - 115 | 981.6 | 0.609 | 20 | |

**DUP** Sample ID: **HS25101106-01DUP** Units: **mg/L** Analysis Date: **22-Oct-2025 22:58**
Client ID: **MW-3-500** Run ID: **Skalar 03_524646** SeqNo: **9097339** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | 263.5 | 5.00 | | | | | 260.5 | 1.15 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | 0 | 0 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-06 | HS25101106-07 | HS25101106-08 |
| HS25101106-09 | HS25101106-10 | HS25101106-11 | HS25101106-12 |
| HS25101106-18 | HS25101106-19 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID:** **R524648 ( 0 )** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

**DUP** Sample ID: **HS25101106-01DUP** Units: **pH Units** Analysis Date: **22-Oct-2025 22:58**
Client ID: **MW-3-500** Run ID: **Skalar 03_524648** SeqNo: **9097360** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.98 | 1.00 | | | | | 7.97 | 0.125 | 10 | |
| Temp Deg C @pH | 21 | 0 | | | | | 21.2 | 0.948 | 10 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-06 | HS25101106-07 | HS25101106-08 |
| HS25101106-09 | HS25101106-10 | HS25101106-11 | HS25101106-12 |
| HS25101106-18 | HS25101106-19 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R524796 ( 0 )** **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

**MBLK** Sample ID: **MBLK-R524796** Units: **mg/L** Analysis Date: **23-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_524796** SeqNo: **9100745** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R524796** Units: **mg/L** Analysis Date: **23-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_524796** SeqNo: **9100744** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.72 | 5.00 | 25 | 0 | 90.9 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-R524796** Units: **mg/L** Analysis Date: **23-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_524796** SeqNo: **9100743** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.52 | 5.00 | 25 | 0 | 90.1 | 85 - 115 | 22.72 | 0.884 | 20 | |

**MS** Sample ID: **HS25101106-20MS** Units: **mg/L** Analysis Date: **23-Oct-2025 16:30**
Client ID: **LDNR-08** Run ID: **WetChem_HS_524796** SeqNo: **9100746** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.52 | 5.00 | 25 | -2.28 | 99.2 | 80 - 120 | | | | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-06 | HS25101106-07 | HS25101106-08 |
| HS25101106-09 | HS25101106-10 | HS25101106-11 | HS25101106-12 |
| HS25101106-18 | HS25101106-19 | HS25101106-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R524814 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-10242025** Units: **mg/L** Analysis Date: **24-Oct-2025 09:00**
Client ID: Run ID: **Balance1_524814** SeqNo: **9101649** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-10242025** Units: **mg/L** Analysis Date: **24-Oct-2025 09:00**
Client ID: Run ID: **Balance1_524814** SeqNo: **9101648** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 904 | 10.0 | 1000 | 0 | 90.4 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25101181-01DUP** Units: **mg/L** Analysis Date: **24-Oct-2025 09:00**
Client ID: Run ID: **Balance1_524814** SeqNo: **9101647** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 788 | 10.0 | | | | | 808 | 2.51 | 20 | |

**DUP** Sample ID: **HS25101106-11DUP** Units: **mg/L** Analysis Date: **24-Oct-2025 09:00**
Client ID: **LDNR-07** Run ID: **Balance1_524814** SeqNo: **9101643** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 766 | 10.0 | | | | | 734 | 4.27 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-06 | HS25101106-07 | HS25101106-08 |
| HS25101106-09 | HS25101106-10 | HS25101106-11 | HS25101106-12 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R524821 ( 0 )** **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

**MBLK** Sample ID: **MBLK-R524821** Units: **mg/L** Analysis Date: **23-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_524821** SeqNo: **9101037** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | U | 1.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R524821** Units: **mg/L** Analysis Date: **23-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_524821** SeqNo: **9101036** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.14 | 1.00 | 26.56 | 0 | 90.9 | 80 - 120 | | | | |

**LCSD** Sample ID: **LCSD-R524821** Units: **mg/L** Analysis Date: **23-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_524821** SeqNo: **9101035** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 23.93 | 1.00 | 26.56 | 0 | 90.1 | 80 - 120 | 24.14 | 0.884 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-06 | HS25101106-07 | HS25101106-08 |
| HS25101106-09 | HS25101106-10 | HS25101106-11 | HS25101106-12 |
| HS25101106-18 | HS25101106-19 | HS25101106-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R524950 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-10.24.2025** Units: **mg/L** Analysis Date: **24-Oct-2025 18:31**
Client ID: Run ID: **Skalar 03_524950** SeqNo: **9104838** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-10.24.2025** Units: **mg/L** Analysis Date: **24-Oct-2025 18:37**
Client ID: Run ID: **Skalar 03_524950** SeqNo: **9104839** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 998.4 | 5.00 | 1000 | 0 | 99.8 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-10.24.2025** Units: **mg/L** Analysis Date: **24-Oct-2025 18:43**
Client ID: Run ID: **Skalar 03_524950** SeqNo: **9104840** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 996.8 | 5.00 | 1000 | 0 | 99.7 | 85 - 115 | 998.4 | 0.16 | 20 | |

**DUP** Sample ID: **HS25101229-05DUP** Units: **mg/L** Analysis Date: **24-Oct-2025 19:45**
Client ID: Run ID: **Skalar 03_524950** SeqNo: **9104850** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | 7.3 | 5.00 | | | | | 7.6 | 4.03 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | 0 | 0 | 20 | |

**The following samples were analyzed in this batch:** HS25101106-20



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R524954 ( 0 )** **Instrument: Skalar 03** **Method: PH BY SM4500H+ B**

**DUP** Sample ID: **HS25101115-01DUP** Units: **pH Units** Analysis Date: **24-Oct-2025 18:56**
Client ID: Run ID: **Skalar 03_524954** SeqNo: **9104905** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.87 | 1.00 | | | | | 7.87 | 0 | 10 | |
| Temp Deg C @pH | 21.9 | 0 | | | | | 22 | 0.456 | 10 | |

**The following samples were analyzed in this batch:** HS25101106-20



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID: R525068 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-10282025** Units: **mg/L** Analysis Date: **28-Oct-2025 09:00**
Client ID: Run ID: **Balance1_525068** SeqNo: **9107720** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-10282025** Units: **mg/L** Analysis Date: **28-Oct-2025 09:00**
Client ID: Run ID: **Balance1_525068** SeqNo: **9107719** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 918 | 10.0 | 1000 | 0 | 91.8 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25101238-01DUP** Units: **mg/L** Analysis Date: **28-Oct-2025 09:00**
Client ID: Run ID: **Balance1_525068** SeqNo: **9107715** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1260 | 10.0 | | | | | 1232 | 2.25 | 20 | |

**DUP** Sample ID: **HS25101115-02DUP** Units: **mg/L** Analysis Date: **28-Oct-2025 09:00**
Client ID: Run ID: **Balance1_525068** SeqNo: **9107707** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 958 | 10.0 | | | | | 920 | 4.05 | 20 | |

**The following samples were analyzed in this batch:** HS25101106-18 HS25101106-19 HS25101106-20



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101106

**QC BATCH REPORT**

**Batch ID:** R525124 ( 0 ) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **28-Oct-2025 17:29**
Client ID: Run ID: **ICS-04_525124** SeqNo: **9109252** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | 0.100 | | | | | | | | |
| Chloride | U | 0.500 | | | | | | | | |
| Sulfate | U | 0.500 | | | | | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **28-Oct-2025 17:40**
Client ID: Run ID: **ICS-04_525124** SeqNo: **9109253** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 3.832 | 0.100 | 4 | 0 | 95.8 | 80 - 120 | | | | |
| Chloride | 20.6 | 0.500 | 20 | 0 | 103 | 80 - 120 | | | | |
| Sulfate | 20.46 | 0.500 | 20 | 0 | 102 | 80 - 120 | | | | |

**MS** Sample ID: **HS25101106-06MS** Units: **mg/L** Analysis Date: **28-Oct-2025 19:09**
Client ID: **LDNR-25** Run ID: **ICS-04_525124** SeqNo: **9109266** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 17.19 | 1.00 | 20 | 0 | 85.9 | 80 - 120 | | | | |
| Chloride | 388.4 | 5.00 | 100 | 292 | 96.4 | 80 - 120 | | | | |
| Sulfate | 157.6 | 5.00 | 100 | 57.52 | 100 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101106-06MSD** Units: **mg/L** Analysis Date: **28-Oct-2025 19:14**
Client ID: **LDNR-25** Run ID: **ICS-04_525124** SeqNo: **9109267** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 17.24 | 1.00 | 20 | 0 | 86.2 | 80 - 120 | 17.19 | 0.308 | 20 | |
| Chloride | 387.9 | 5.00 | 100 | 292 | 95.9 | 80 - 120 | 388.4 | 0.139 | 20 | |
| Sulfate | 157.5 | 5.00 | 100 | 57.52 | 100.0 | 80 - 120 | 157.6 | 0.0863 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101106-01 | HS25101106-02 | HS25101106-03 | HS25101106-04 |
| HS25101106-05 | HS25101106-06 | HS25101106-07 | HS25101106-08 |
| HS25101106-09 | HS25101106-10 | HS25101106-11 | HS25101106-12 |
| HS25101106-18 | HS25101106-19 | HS25101106-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** **HS25101106**

**QUALIFIERS, ACRONYMS, UNITS**

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| M | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL/SDL |

| Acronym | Description |
|---|---|
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |
| SDL | Sample Detection Limit |
| TRRP | Texas Risk Reduction Program |

| Unit Reported | Description |
|---|---|
| mg/L | Milligrams per Liter |



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## CERTIFICATIONS,ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|---|---|---|
| Arizona | AZ0793 | 27-May-2026 |
| Arkansas | 88-00356_2024 | 17-Mar-2026 |
| California | 2919 - 2025 | 30-Apr-2026 |
| Dept of Defense | L24-239 | 30-Apr-2026 |
| Dept of Defense | L24-240 | 30-Apr-2026 |
| Florida | E87611-2025 | 30-Jun-2026 |
| Illinois | 200032 - 2025 | 31-Jul-2026 |
| Kansas | KS-C25-00168 | 31-Jul-2026 |
| Kentucky | 123043-2025 | 30-Apr-2026 |
| Louisiana | 03087-2025 | 30-Jun-2026 |
| Maine | 2024017 | 23-Jun-2026 |
| Michigan | 9971-2025 | 30-Apr-2026 |
| Minnesota | 2856348 | 31-Dec-2025 |
| Missouri | 136 | 30-Sep-2026 |
| Nebraska | NE-OS-25-13 - 2025 | 30-Apr-2026 |
| Nevada | NV-C25-00124 - 2025 | 31-Jul-2026 |
| New Hampshire | 209425 | 24-Apr-2026 |
| New Jersey | TX008-2025 | 30-Jun-2026 |
| New York | 11707 - 2025 | 01-Apr-2026 |
| North Carolina | 624 - 2024 | 31-Dec-2025 |
| Oregon | TX200002-013 | 15-May-2026 |
| Pennsylvania | 019 | 01-Jul-2026 |
| Tennessee | TN | 30-Apr-2026 |
| Texas | TX-C25-00104 | 30-Apr-2026 |



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## Sample Receipt Checklist

**Work Order ID:** HS25101106 **Date/Time Received:** **22-Oct-2025 12:54**

**Client Name:** ERMSW-HOU **Received by:** **Si Ma**

**Completed By:** */S/ Edgar Zheku* (eSignature) 22-Oct-2025 18:18 (Date/Time) **Reviewed by:** */S/ Alexis Dorenbosch* (eSignature) 23-Oct-2025 12:46 (Date/Time)

Matrices: **W** Carrier name: **ALS Courier**

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | 1 Page(s) |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | COC IDs:342456, 342457 |
| Samplers name present on COC? | Yes ☐ | No ☑ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |

| | | |
|---|---|---|
| Temperature(s)/Thermometer(s): | 2.6UC/2.6C, 1.8UC/1.8C, 0.8UC/0.8C, 1.2UC/1.2C, 2.1UC/2.1C | IR 34 |
| Cooler(s)/Kit(s): | 54622, 53693, 54453, 54451, 50731 | |
| Date/Time sample(s) sent to storage: | 10/22/2025 18:18 | |

| | | | |
|---|---|---|---|
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | | | |

Login Notes: Sample LDNR-08 not on chain of custody, logged in on hold.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

# Chain of Custody Form

Page 1 of 2

COC ID: 342456

**HS25101106**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | | | |
|---|---|---|---|---|---|
| Purchase Order | 0777906 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-3-500 | 10/20/25 | 16:00 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | FB-102025 | ↓ | 16:10 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 3 | MW-3-200 | 10/21/25 | 10:30 | | | | | | | | | | | | | | |
| 4 | MW-3-700 | ↓ | 12:30 | | | | | | | | | | | | | | |
| 5 | FB-102125 | ↓ | 15:30 | ↓ | ↓ | ↓ | | | | | | | | | | | |
| 6 | LDNR-25 | X | 1050 | | 4 | X | | | | | | | | | | | |
| 7 | LDNR-13 | \| | 1115 | | \| | | | | | | | | | | | | |
| 8 | LDNR-14 | \| | 1140 | | \| | | | | | | | | | | | | |
| 9 | LDNR-12 | \| | 1415 | | \| | | | | | | | | | | | | |
| 10 | LDNR-06 | | 1430 | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Taylar Brown TBrown

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Kelly McNair | Date: 10/22/25 | Time: 10:10 | Received by: | | |
| Relinquished by: | Date: 10.22.25 | Time: 1254 | Received by (Laboratory): SM 10/22/25 | | 12:54 |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | | |

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| 54622 | 2.6 |
| 53693 | 1.8 |
| 54457 | 0-8 |
| 54451 | 1-2 |
| 50731 | 2-1 |

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

# Chain of Custody Form



COC ID: 342457

**HS25101106**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | | | |
|---|---|---|---|---|---|
| Purchase Order | 0777906 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LDNR-07 | 10/21/25 | 1500 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | SW-DUP-01 | 10/21/25 | 9999 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 3 | CG100125-380 | — | — | ↓ | ↓ | 2 | X | | | | | | | | | | |
| 4 | CG100125-385 | — | — | | | | X | | | | | | | | | | |
| 5 | CG100125-370 | — | — | | | | X | | | | | | | | | | |
| 6 | CG100125-377 | — | — | | | | X | | | | | | | | | | |
| 7 | CG100125-385 | — | — | ↓ | ↓ | ↓ | X | | | | | | | | | | |
| 8 | FB-102225 | 10/22/25 | 8:15 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 9 | Binsafe | ↓ | 9:00 | ↓ | ↓ | ↓ | X | X | X | X | X | X | X | X | X | X | |
| 10 | | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: David Sanguinetti

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Kelly McNair | Date: 10/22/25 | Time: 10:10 | Received by: | |
| Relinquished by: | | Date: 10.22.25 | Time: 1254 | Received by (Laboratory): | SM 10/22/25 12:54 |
| Logged by (Laboratory): | | Date: | Time: | Checked by (Laboratory): | |

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| 54622 | 2.6 |
| 53643 | 1.8 |

QC Package: (Check One Box Below)
- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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10450 Stancliff Rd. Suite 210
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F: +1 281 530 5887

October 30, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25101115**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 4 sample(s) on Oct 22, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

**Generated By: JUMOKE.LAWAL**
Alexis Dorenbosch
Project Manager

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**Work Order:** HS25101115

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS25101115-01 | LDNR-23 | Water | | 22-Oct-2025 08:20 | 22-Oct-2025 12:54 | ☐ |
| HS25101115-02 | LDNR-03 | Water | | 22-Oct-2025 08:30 | 22-Oct-2025 12:54 | ☐ |
| HS25101115-03 | LDNR-22 | Water | | 22-Oct-2025 08:50 | 22-Oct-2025 12:54 | ☐ |
| HS25101115-04 | CG-100125-378 | Water | CG-100125-378 | 22-Oct-2025 00:00 | 22-Oct-2025 12:54 | ☐ |



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**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25101115

## Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

## GC Semivolatiles by Method MA EPH

### Batch ID: 234676

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GC Volatiles by Method MA VPH

### Batch ID: R525155,R525156

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GCMS Volatiles by Method SW8260

### Batch ID: R525023

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## Metals by Method SW7470A

### Batch ID: 234792

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## Metals by Method SW6020A

### Batch ID: 234762

**Sample ID: HS25101084-07MSD**

• MSD is for an unrelated sample

**Sample ID: HS25101084-07PDS**

• PDS is for an unrelated sample

## WetChemistry by Method SM4500 S2-F

### Batch ID: R525035

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method E376.1

### Batch ID: R525060

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method M2540C

### Batch ID: R525068

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



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**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**Work Order:** HS25101115

**CASE NARRATIVE**

## WetChemistry by Method SW9056

### Batch ID: R525034

#### Sample ID: HS25100935-06MS

- MS and MSD are for an unrelated sample (Chloride)

## WetChemistry by Method SM4500H+ B

### Batch ID: R524954

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method SM2320B

### Batch ID: R524950

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-23
Collection Date: 22-Oct-2025 08:20

**ANALYTICAL REPORT**
WorkOrder:HS25101115
Lab ID:HS25101115-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 03:56 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 03:56 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 03:56 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 03:56 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 03:56 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 03:56 |
| *Surr: 1,2-Dichloroethane-d4* | *89.8* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 03:56* |
| *Surr: 4-Bromofluorobenzene* | *111* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 03:56* |
| *Surr: Dibromofluoromethane* | *92.2* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 03:56* |
| *Surr: Toluene-d8* | *98.8* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 03:56* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 28-Oct-2025 17:37 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 28-Oct-2025 17:37 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 28-Oct-2025 17:37 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *97.0* | | | *70-130* | *%REC* | *1* | *28-Oct-2025 17:37* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *89.9* | | | *70-130* | *%REC* | *1* | *28-Oct-2025 17:37* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 02:32 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 02:32 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 02:32 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 02:32 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 02:32 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 02:32 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 02:32 |
| *Surr: 1-Chlorooctadecane* | *69.7* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 02:32* |
| *Surr: 2-Bromonaphthalene* | *80.4* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 02:32* |
| *Surr: 2-Fluorobiphenyl* | *81.7* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 02:32* |
| *Surr: o-Terphenyl* | *67.3* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 02:32* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



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Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-23
Collection Date: 22-Oct-2025 08:20

**ANALYTICAL REPORT**
WorkOrder:HS25101115
Lab ID:HS25101115-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 27-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.000995** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| **Barium** | **0.266** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| **Calcium** | **72.8** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Oct-2025 19:46 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 29-Oct-2025 19:46 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Oct-2025 19:46 |
| **Magnesium** | **14.0** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| **Manganese** | **0.429** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Oct-2025 19:46 |
| **Potassium** | **2.78** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| **Sodium** | **163** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| **Strontium** | **0.553** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| **Vanadium** | **0.00282** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| **Zinc** | **0.00325** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 29-Oct-2025 19:46 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 12:43 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **928** | | **3.00** | **10.0** | **mg/L** | 1 | 28-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **165** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Oct-2025 18:53 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 24-Oct-2025 18:53 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.87** | H | **0.100** | **1.00** | **pH Units** | 1 | 24-Oct-2025 18:53 |
| **Temp Deg C @pH** | **22.0** | H | **0** | **0** | **°C** | 1 | 24-Oct-2025 18:53 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 14:14 |
| **Chloride** | **294** | | **2.00** | **5.00** | **mg/L** | 10 | 27-Oct-2025 14:31 |
| **Sulfate** | **62.6** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 14:14 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-03
Collection Date: 22-Oct-2025 08:30

**ANALYTICAL REPORT**
WorkOrder:HS25101115
Lab ID:HS25101115-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 04:18 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 04:18 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 04:18 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 04:18 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 04:18 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 04:18 |
| *Surr: 1,2-Dichloroethane-d4* | *90.1* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 04:18* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 04:18* |
| *Surr: Dibromofluoromethane* | *93.2* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 04:18* |
| *Surr: Toluene-d8* | *100* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 04:18* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 28-Oct-2025 18:15 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 28-Oct-2025 18:15 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 28-Oct-2025 18:15 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *87.5* | | | *70-130* | *%REC* | *1* | *28-Oct-2025 18:15* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *81.7* | | | *70-130* | *%REC* | *1* | *28-Oct-2025 18:15* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:01 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:01 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:01 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:01 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:01 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:01 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:01 |
| *Surr: 1-Chlorooctadecane* | *64.9* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 03:01* |
| *Surr: 2-Bromonaphthalene* | *74.7* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 03:01* |
| *Surr: 2-Fluorobiphenyl* | *78.6* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 03:01* |
| *Surr: o-Terphenyl* | *63.0* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 03:01* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-03
Collection Date: 22-Oct-2025 08:30

**ANALYTICAL REPORT**
WorkOrder:HS25101115
Lab ID:HS25101115-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 27-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.000923** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Oct-2025 19:48 |
| **Barium** | **0.254** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:48 |
| **Calcium** | **72.1** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Oct-2025 19:48 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Oct-2025 19:48 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 29-Oct-2025 19:48 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Oct-2025 19:48 |
| **Magnesium** | **13.6** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Oct-2025 19:48 |
| **Manganese** | **0.427** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:48 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Oct-2025 19:48 |
| **Potassium** | **2.70** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Oct-2025 19:48 |
| **Sodium** | **159** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Oct-2025 19:48 |
| **Strontium** | **0.536** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:48 |
| **Vanadium** | **0.00229** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:48 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 29-Oct-2025 19:48 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 12:44 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **920** | | **3.00** | **10.0** | **mg/L** | 1 | 28-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **171** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Oct-2025 19:01 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 24-Oct-2025 19:01 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.88** | H | **0.100** | **1.00** | **pH Units** | 1 | 24-Oct-2025 19:01 |
| **Temp Deg C @pH** | **22.0** | H | **0** | **0** | **°C** | 1 | 24-Oct-2025 19:01 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 14:20 |
| **Chloride** | **288** | | **2.00** | **5.00** | **mg/L** | 10 | 27-Oct-2025 15:18 |
| **Sulfate** | **62.6** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 14:20 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-22
Collection Date: 22-Oct-2025 08:50

**ANALYTICAL REPORT**
WorkOrder:HS25101115
Lab ID:HS25101115-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 04:39 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 04:39 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 04:39 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 04:39 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 04:39 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 04:39 |
| *Surr: 1,2-Dichloroethane-d4* | *88.3* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 04:39* |
| *Surr: 4-Bromofluorobenzene* | *111* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 04:39* |
| *Surr: Dibromofluoromethane* | *93.8* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 04:39* |
| *Surr: Toluene-d8* | *99.6* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 04:39* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 28-Oct-2025 18:54 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 28-Oct-2025 18:54 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 28-Oct-2025 18:54 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *88.1* | | | *70-130* | *%REC* | *1* | *28-Oct-2025 18:54* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *82.5* | | | *70-130* | *%REC* | *1* | *28-Oct-2025 18:54* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 24-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:29 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:29 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:29 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:29 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:29 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:29 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 03:29 |
| *Surr: 1-Chlorooctadecane* | *62.0* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 03:29* |
| *Surr: 2-Bromonaphthalene* | *73.6* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 03:29* |
| *Surr: 2-Fluorobiphenyl* | *78.3* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 03:29* |
| *Surr: o-Terphenyl* | *71.8* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 03:29* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-22
Collection Date: 22-Oct-2025 08:50

**ANALYTICAL REPORT**
WorkOrder:HS25101115
Lab ID:HS25101115-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 27-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.000990** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Oct-2025 19:50 |
| **Barium** | **0.250** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:50 |
| **Calcium** | **78.1** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Oct-2025 19:50 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Oct-2025 19:50 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 29-Oct-2025 19:50 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Oct-2025 19:50 |
| **Magnesium** | **14.6** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Oct-2025 19:50 |
| **Manganese** | **0.321** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:50 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Oct-2025 19:50 |
| **Potassium** | **2.85** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Oct-2025 19:50 |
| **Sodium** | **168** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Oct-2025 19:50 |
| **Strontium** | **0.566** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:50 |
| **Vanadium** | **0.00182** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 29-Oct-2025 19:50 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 29-Oct-2025 19:50 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 12:46 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **932** | | **3.00** | **10.0** | **mg/L** | 1 | 28-Oct-2025 09:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **169** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Oct-2025 19:07 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 24-Oct-2025 19:07 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.93** | H | **0.100** | **1.00** | **pH Units** | 1 | 24-Oct-2025 19:07 |
| **Temp Deg C @pH** | **22.1** | H | **0** | **0** | **°C** | 1 | 24-Oct-2025 19:07 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 14:26 |
| **Chloride** | **284** | | **2.00** | **5.00** | **mg/L** | 10 | 27-Oct-2025 15:24 |
| **Sulfate** | **63.3** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 14:26 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-378
Collection Date: 22-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101115
Lab ID:HS25101115-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 27-Oct-2025 23:37 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 27-Oct-2025 23:37 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 27-Oct-2025 23:37 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 27-Oct-2025 23:37 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 27-Oct-2025 23:37 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 27-Oct-2025 23:37 |
| *Surr: 1,2-Dichloroethane-d4* | *86.8* | | | *70-126* | *%REC* | *1* | *27-Oct-2025 23:37* |
| *Surr: 4-Bromofluorobenzene* | *111* | | | *77-113* | *%REC* | *1* | *27-Oct-2025 23:37* |
| *Surr: Dibromofluoromethane* | *90.4* | | | *77-123* | *%REC* | *1* | *27-Oct-2025 23:37* |
| *Surr: Toluene-d8* | *103* | | | *82-127* | *%REC* | *1* | *27-Oct-2025 23:37* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**Batch ID:** 234676 **Start Date:** 24 Oct 2025 08:28 **End Date:** 24 Oct 2025 08:28
**Method:** MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101115-01 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101115-02 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101115-03 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |

**Batch ID:** 234762 **Start Date:** 27 Oct 2025 08:00 **End Date:** 27 Oct 2025 08:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101115-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101115-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101115-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 234792 **Start Date:** 28 Oct 2025 07:00 **End Date:** 28 Oct 2025 07:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101115-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101115-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101115-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 234676 ( 0 ) | **Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019 | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | 24 Oct 2025 08:28 | 29 Oct 2025 02:32 | 1 |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | 24 Oct 2025 08:28 | 29 Oct 2025 02:32 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | 24 Oct 2025 08:28 | 29 Oct 2025 03:01 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | 24 Oct 2025 08:28 | 29 Oct 2025 03:01 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | 24 Oct 2025 08:28 | 29 Oct 2025 03:29 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | 24 Oct 2025 08:28 | 29 Oct 2025 03:29 | 1 |
| **Batch ID:** 234762 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | 27 Oct 2025 08:00 | 29 Oct 2025 19:46 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | 27 Oct 2025 08:00 | 29 Oct 2025 19:48 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | 27 Oct 2025 08:00 | 29 Oct 2025 19:50 | 1 |
| **Batch ID:** 234792 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | 28 Oct 2025 07:00 | 28 Oct 2025 12:43 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | 28 Oct 2025 07:00 | 28 Oct 2025 12:44 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | 28 Oct 2025 07:00 | 28 Oct 2025 12:46 | 1 |
| **Batch ID:** R524950 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 24 Oct 2025 18:53 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 24 Oct 2025 19:01 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 24 Oct 2025 19:07 | 1 |
| **Batch ID:** R524954 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 24 Oct 2025 18:53 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 24 Oct 2025 19:01 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 24 Oct 2025 19:07 | 1 |
| **Batch ID:** R525023 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 28 Oct 2025 03:56 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 28 Oct 2025 04:18 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 28 Oct 2025 04:39 | 1 |
| HS25101115-04 | CG-100125-378 | 22 Oct 2025 00:00 | | | 27 Oct 2025 23:37 | 1 |
| **Batch ID:** R525034 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 27 Oct 2025 14:31 | 10 |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 27 Oct 2025 14:14 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 27 Oct 2025 15:18 | 10 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 27 Oct 2025 14:20 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 27 Oct 2025 15:24 | 10 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 27 Oct 2025 14:26 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525035 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 27 Oct 2025 16:30 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 27 Oct 2025 16:30 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 27 Oct 2025 16:30 | 1 |
| **Batch ID:** R525060 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 27 Oct 2025 16:30 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 27 Oct 2025 16:30 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 27 Oct 2025 16:30 | 1 |
| **Batch ID:** R525068 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 28 Oct 2025 09:00 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 28 Oct 2025 09:00 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 28 Oct 2025 09:00 | 1 |
| **Batch ID:** R525155 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 28 Oct 2025 17:37 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 28 Oct 2025 18:15 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 28 Oct 2025 18:54 | 1 |
| **Batch ID:** R525156 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101115-01 | LDNR-23 | 22 Oct 2025 08:20 | | | 28 Oct 2025 17:37 | 1 |
| HS25101115-02 | LDNR-03 | 22 Oct 2025 08:30 | | | 28 Oct 2025 18:15 | 1 |
| HS25101115-03 | LDNR-22 | 22 Oct 2025 08:50 | | | 28 Oct 2025 18:54 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: 234676 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MBLK** Sample ID: **MBLK-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 15:57**
Client ID: Run ID: **FID23_525145** SeqNo: **9109800** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aliphatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aliphatics >C16 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02555* | *0* | *0.04* | *0* | *63.9* | *40 - 140* | | | | |

**MBLK** Sample ID: **MBLK-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 15:57**
Client ID: Run ID: **FID-22_525146** SeqNo: **9109825** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aromatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aromatics >C16 - C21 | U | 0.100 | | | | | | | | |
| Aromatics >C21 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03999* | *0* | *0.04* | *0* | *100.0* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03952* | *0* | *0.04* | *0* | *98.8* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03397* | *0* | *0.04* | *0* | *84.9* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 16:26**
Client ID: Run ID: **FID23_525145** SeqNo: **9109801** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04547 | 0.100 | 0.05 | 0 | 90.9 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.09422 | 0.100 | 0.1 | 0 | 94.2 | 40 - 140 | | | | J |
| Aliphatics >C16 - C35 | 0.3709 | 0.100 | 0.4 | 0 | 92.7 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02325* | *0* | *0.04* | *0* | *58.1* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: 234676 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**LCS** Sample ID: **LCS-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 16:26**
Client ID: Run ID: **FID-22_525146** SeqNo: **9109826** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04598 | 0.100 | 0.05 | 0 | 92.0 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1718 | 0.100 | 0.2 | 0 | 85.9 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1413 | 0.100 | 0.15 | 0 | 94.2 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.4337 | 0.100 | 0.45 | 0 | 96.4 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03848* | *0* | *0.04* | *0* | *96.2* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03755* | *0* | *0.04* | *0* | *93.9* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03024* | *0* | *0.04* | *0* | *75.6* | *40 - 140* | | | | |

**LCSD** Sample ID: **LCSD-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 16:55**
Client ID: Run ID: **FID23_525145** SeqNo: **9109802** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04628 | 0.100 | 0.05 | 0 | 92.6 | 40 - 140 | 0.04547 | 0 | 50 | J |
| Aliphatics >C12 - C16 | 0.09571 | 0.100 | 0.1 | 0 | 95.7 | 40 - 140 | 0.09422 | 0 | 50 | J |
| Aliphatics >C16 - C35 | 0.3758 | 0.100 | 0.4 | 0 | 93.9 | 40 - 140 | 0.3709 | 1.29 | 50 | |
| *Surr: 1-Chlorooctadecane* | *0.02353* | *0* | *0.04* | *0* | *58.8* | *40 - 140* | *0.02325* | *1.2* | *50* | |

**LCSD** Sample ID: **LCSD-234676** Units: **mg/L** Analysis Date: **28-Oct-2025 16:55**
Client ID: Run ID: **FID-22_525146** SeqNo: **9109827** PrepDate: **24-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04577 | 0.100 | 0.05 | 0 | 91.5 | 40 - 140 | 0.04598 | 0 | 50 | J |
| Aromatics >C12 - C16 | 0.1733 | 0.100 | 0.2 | 0 | 86.7 | 40 - 140 | 0.1718 | 0.881 | 50 | |
| Aromatics >C16 - C21 | 0.1408 | 0.100 | 0.15 | 0 | 93.8 | 40 - 140 | 0.1413 | 0.413 | 50 | |
| Aromatics >C21 - C35 | 0.4312 | 0.100 | 0.45 | 0 | 95.8 | 40 - 140 | 0.4337 | 0.593 | 50 | |
| *Surr: 2-Bromonaphthalene* | *0.0385* | *0* | *0.04* | *0* | *96.3* | *40 - 140* | *0.03848* | *0.0541* | *50* | |
| *Surr: 2-Fluorobiphenyl* | *0.03764* | *0* | *0.04* | *0* | *94.1* | *40 - 140* | *0.03755* | *0.24* | *50* | |
| *Surr: o-Terphenyl* | *0.03012* | *0* | *0.04* | *0* | *75.3* | *40 - 140* | *0.03024* | *0.371* | *50* | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: R525155 ( 0 )** **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MBLK** Sample ID: **MBLK-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 15:02**
Client ID: Run ID: **FID-14_525155** SeqNo: **9109974** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.2395* | *0.0100* | *0.25* | *0* | *95.8* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 13:44**
Client ID: Run ID: **FID-14_525155** SeqNo: **9109972** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.03101 | 0.00500 | 0.025 | 0 | 124 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.02897 | 0.00500 | 0.025 | 0 | 116 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.2544* | *0.0100* | *0.25* | *0* | *102* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 14:23**
Client ID: Run ID: **FID-14_525155** SeqNo: **9109973** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.02694 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | 0.03101 | 14 | 25 | |
| Aliphatics >C8 - C10 | 0.0249 | 0.00500 | 0.025 | 0 | 99.6 | 70 - 130 | 0.02897 | 15.1 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.2222* | *0.0100* | *0.25* | *0* | *88.9* | *70 - 130* | *0.2544* | *13.5* | *25* | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID:** R525156 ( 0 ) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 15:02**
Client ID: Run ID: **FID-15_525156** SeqNo: **9109994** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.221* | *0.0100* | *0.25* | *0* | *88.4* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 13:44**
Client ID: Run ID: **FID-15_525156** SeqNo: **9109992** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0777 | 0.0200 | 0.1 | 0 | 77.7 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.2365* | *0.0100* | *0.25* | *0* | *94.6* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 14:23**
Client ID: Run ID: **FID-15_525156** SeqNo: **9109993** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.075 | 0.0200 | 0.1 | 0 | 75.0 | 70 - 130 | 0.0777 | 3.55 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.2067* | *0.0100* | *0.25* | *0* | *82.7* | *70 - 130* | *0.2365* | *13.4* | *25* | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: 234762 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-234762** Units: **mg/L** Analysis Date: **29-Oct-2025 19:22**
Client ID: Run ID: **ICPMS06_525187** SeqNo: **9111565** PrepDate: **27-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | | |
| Barium | U | 0.00500 | | | | | | | | |
| Calcium | U | 0.500 | | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | | |
| Iron | U | 0.200 | | | | | | | | |
| Lead | U | 0.00200 | | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | | |
| Potassium | U | 0.500 | | | | | | | | |
| Sodium | U | 0.500 | | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | | |

**LCS** Sample ID: **LCS-234762** Units: **mg/L** Analysis Date: **29-Oct-2025 19:24**
Client ID: Run ID: **ICPMS06_525187** SeqNo: **9111566** PrepDate: **27-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05404 | 0.00200 | 0.05 | 0 | 108 | 80 - 120 | | | | |
| Barium | 0.05033 | 0.00500 | 0.05 | 0 | 101 | 80 - 120 | | | | |
| Calcium | 5.218 | 0.500 | 5 | 0 | 104 | 80 - 120 | | | | |
| Chromium | 0.04972 | 0.00500 | 0.05 | 0 | 99.4 | 80 - 120 | | | | |
| Iron | 5.061 | 0.200 | 5 | 0 | 101 | 80 - 120 | | | | |
| Lead | 0.05086 | 0.00200 | 0.05 | 0 | 102 | 80 - 120 | | | | |
| Magnesium | 5.023 | 0.200 | 5 | 0 | 100 | 80 - 120 | | | | |
| Manganese | 0.05297 | 0.00500 | 0.05 | 0 | 106 | 80 - 120 | | | | |
| Nickel | 0.0506 | 0.00500 | 0.05 | 0 | 101 | 80 - 120 | | | | |
| Potassium | 5.235 | 0.500 | 5 | 0 | 105 | 80 - 120 | | | | |
| Sodium | 4.984 | 0.500 | 5 | 0 | 99.7 | 80 - 120 | | | | |
| Strontium | 0.104 | 0.00500 | 0.1 | 0 | 104 | 80 - 120 | | | | |
| Vanadium | 0.0521 | 0.00500 | 0.05 | 0 | 104 | 80 - 120 | | | | |
| Zinc | 0.054 | 0.0100 | 0.05 | 0 | 108 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: 234762 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25101084-07MS** Units: **mg/L** Analysis Date: **29-Oct-2025 19:32**
Client ID: Run ID: **ICPMS06_525187** SeqNo: **9111570** PrepDate: **27-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05617 | 0.00200 | 0.05 | 0.001777 | 109 | 80 - 120 | | | | |
| Barium | 0.08637 | 0.00500 | 0.05 | 0.03362 | 105 | 80 - 120 | | | | |
| Calcium | 201.2 | 0.500 | 5 | 191.5 | 194 | 80 - 120 | | | | SEO |
| Chromium | 0.04939 | 0.00500 | 0.05 | 0.000105 | 98.6 | 80 - 120 | | | | |
| Iron | 5.344 | 0.200 | 5 | 0.3356 | 100 | 80 - 120 | | | | |
| Lead | 0.05331 | 0.00200 | 0.05 | 0.000058 | 107 | 80 - 120 | | | | |
| Magnesium | 42.55 | 0.200 | 5 | 37.44 | 102 | 80 - 120 | | | | O |
| Manganese | 0.6959 | 0.00500 | 0.05 | 0.6435 | 105 | 80 - 120 | | | | O |
| Nickel | 0.0518 | 0.00500 | 0.05 | 0.004337 | 94.9 | 80 - 120 | | | | |
| Potassium | 6.293 | 0.500 | 5 | 1.139 | 103 | 80 - 120 | | | | |
| Sodium | 134.7 | 0.500 | 5 | 129.4 | 107 | 80 - 120 | | | | O |
| Strontium | 1.2 | 0.00500 | 0.1 | 1.047 | 153 | 80 - 120 | | | | SO |
| Vanadium | 0.05285 | 0.00500 | 0.05 | 0.000351 | 105 | 80 - 120 | | | | |
| Zinc | 0.05544 | 0.0100 | 0.05 | 0.004262 | 102 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101084-07MSD** Units: **mg/L** Analysis Date: **29-Oct-2025 19:34**
Client ID: Run ID: **ICPMS06_525187** SeqNo: **9111571** PrepDate: **27-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05608 | 0.00200 | 0.05 | 0.001777 | 109 | 80 - 120 | 0.05617 | 0.16 | 20 | |
| Barium | 0.08665 | 0.00500 | 0.05 | 0.03362 | 106 | 80 - 120 | 0.08637 | 0.327 | 20 | |
| Calcium | 197.6 | 0.500 | 5 | 191.5 | 122 | 80 - 120 | 201.2 | 1.81 | 20 | SEO |
| Chromium | 0.04918 | 0.00500 | 0.05 | 0.000105 | 98.2 | 80 - 120 | 0.04939 | 0.428 | 20 | |
| Iron | 5.325 | 0.200 | 5 | 0.3356 | 99.8 | 80 - 120 | 5.344 | 0.346 | 20 | |
| Lead | 0.05248 | 0.00200 | 0.05 | 0.000058 | 105 | 80 - 120 | 0.05331 | 1.57 | 20 | |
| Magnesium | 42.64 | 0.200 | 5 | 37.44 | 104 | 80 - 120 | 42.55 | 0.211 | 20 | O |
| Manganese | 0.7043 | 0.00500 | 0.05 | 0.6435 | 122 | 80 - 120 | 0.6959 | 1.2 | 20 | SO |
| Nickel | 0.05222 | 0.00500 | 0.05 | 0.004337 | 95.8 | 80 - 120 | 0.0518 | 0.825 | 20 | |
| Potassium | 6.315 | 0.500 | 5 | 1.139 | 104 | 80 - 120 | 6.293 | 0.361 | 20 | |
| Sodium | 135 | 0.500 | 5 | 129.4 | 114 | 80 - 120 | 134.7 | 0.258 | 20 | O |
| Strontium | 1.206 | 0.00500 | 0.1 | 1.047 | 159 | 80 - 120 | 1.2 | 0.522 | 20 | SO |
| Vanadium | 0.05313 | 0.00500 | 0.05 | 0.000351 | 106 | 80 - 120 | 0.05285 | 0.528 | 20 | |
| Zinc | 0.05603 | 0.0100 | 0.05 | 0.004262 | 104 | 80 - 120 | 0.05544 | 1.05 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: 234762 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25101084-07PDS** Units: **mg/L** Analysis Date: **29-Oct-2025 19:36**
Client ID: Run ID: **ICPMS06_525187** SeqNo: **9111572** PrepDate: **27-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.1087 | 0.00200 | 0.1 | 0.001777 | 107 | 75 - 125 | | | | |
| Barium | 0.1365 | 0.00500 | 0.1 | 0.03362 | 103 | 75 - 125 | | | | |
| Chromium | 0.09912 | 0.00500 | 0.1 | 0.000105 | 99.0 | 75 - 125 | | | | |
| Iron | 10.25 | 0.200 | 10 | 0.3356 | 99.2 | 75 - 125 | | | | |
| Lead | 0.1063 | 0.00200 | 0.1 | 0.000058 | 106 | 75 - 125 | | | | |
| Magnesium | 45.8 | 0.200 | 10 | 37.44 | 83.7 | 75 - 125 | | | | |
| Manganese | 0.731 | 0.00500 | 0.1 | 0.6435 | 87.5 | 75 - 125 | | | | O |
| Nickel | 0.09913 | 0.00500 | 0.1 | 0.004337 | 94.8 | 75 - 125 | | | | |
| Potassium | 11.24 | 0.500 | 10 | 1.139 | 101 | 75 - 125 | | | | |
| Sodium | 134.8 | 0.500 | 10 | 129.4 | 53.9 | 75 - 125 | | | | SO |
| Strontium | 1.166 | 0.00500 | 0.1 | 1.047 | 119 | 75 - 125 | | | | O |
| Vanadium | 0.1046 | 0.00500 | 0.1 | 0.000351 | 104 | 75 - 125 | | | | |
| Zinc | 0.1042 | 0.0100 | 0.1 | 0.004262 | 99.9 | 75 - 125 | | | | |

**PDS** Sample ID: **HS25101084-07PDS** Units: **mg/L** Analysis Date: **30-Oct-2025 10:38**
Client ID: Run ID: **ICPMS06_525246** SeqNo: **9112359** PrepDate: **27-Oct-2025** DF: **20**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 388.6 | 10.0 | 200 | 187.9 | 100 | 75 - 125 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: 234762 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**SD** Sample ID: **HS25101084-07SD** Units: **mg/L** Analysis Date: **29-Oct-2025 19:26**
Client ID: Run ID: **ICPMS06_525187** SeqNo: **9111567** PrepDate: **27-Oct-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.0100 | | | | | 0.001777 | 0 | 10 | |
| Barium | 0.03304 | 0.0250 | | | | | 0.03362 | 1.71 | 10 | |
| Chromium | U | 0.0250 | | | | | 0.000105 | 0 | 10 | |
| Iron | 0.3368 | 1.00 | | | | | 0.3356 | 0 | 10 | J |
| Lead | U | 0.0100 | | | | | 0.000058 | 0 | 10 | |
| Magnesium | 37.26 | 1.00 | | | | | 37.44 | 0.473 | 10 | |
| Manganese | 0.6521 | 0.0250 | | | | | 0.6435 | 1.33 | 10 | |
| Nickel | U | 0.0250 | | | | | 0.004337 | 0 | 10 | |
| Potassium | 1.262 | 2.50 | | | | | 1.139 | 0 | 10 | J |
| Sodium | 127.7 | 2.50 | | | | | 129.4 | 1.28 | 10 | |
| Strontium | 1.035 | 0.0250 | | | | | 1.047 | 1.1 | 10 | |
| Vanadium | U | 0.0250 | | | | | 0.000351 | 0 | 10 | |
| Zinc | U | 0.0500 | | | | | 0.004262 | 0 | 10 | |

**SD** Sample ID: **HS25101084-07SD** Units: **mg/L** Analysis Date: **30-Oct-2025 10:36**
Client ID: Run ID: **ICPMS06_525246** SeqNo: **9112358** PrepDate: **27-Oct-2025** DF: **100**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 188.1 | 50.0 | | | | | 187.9 | 0.115 | 10 | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: 234792 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-234792** Units: **mg/L** Analysis Date: **28-Oct-2025 11:48**
Client ID: Run ID: **HG05_525055** SeqNo: **9107364** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | U | 0.000200 | | | | | | | | |

**LCS** Sample ID: **LCS-234792** Units: **mg/L** Analysis Date: **28-Oct-2025 11:50**
Client ID: Run ID: **HG05_525055** SeqNo: **9107365** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00513 | | 0.000200 | 0.005 | 0 | 103 | 80 - 120 | | | | |

**MS** Sample ID: **HS25101229-05MS** Units: **mg/L** Analysis Date: **28-Oct-2025 12:01**
Client ID: Run ID: **HG05_525055** SeqNo: **9107370** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00558 | | 0.000200 | 0.005 | 0.000093 | 110 | 75 - 125 | | | | |

**MSD** Sample ID: **HS25101229-05MSD** Units: **mg/L** Analysis Date: **28-Oct-2025 12:02**
Client ID: Run ID: **HG05_525055** SeqNo: **9107371** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0054 | | 0.000200 | 0.005 | 0.000093 | 106 | 75 - 125 | 0.00558 | 3.28 | 20 | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: R525023 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251027** Units: **mg/L** Analysis Date: **27-Oct-2025 22:10**
Client ID: Run ID: **VOA7_525023** SeqNo: **9106519** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.044* | *0.0010* | *0.05* | *0* | *87.4* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.055* | *0.0010* | *0.05* | *0* | *110* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *96.1* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS-251027** Units: **mg/L** Analysis Date: **27-Oct-2025 21:05**
Client ID: Run ID: **VOA7_525023** SeqNo: **9106527** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.018 | 0.0010 | 0.02 | 0 | 87.5 | 74 - 120 | | | | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 99.1 | 77 - 117 | | | | |
| m,p-Xylene | 0.038 | 0.0040 | 0.04 | 0 | 93.8 | 77 - 122 | | | | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0 | 95.5 | 75 - 119 | | | | |
| Toluene | 0.020 | 0.0020 | 0.02 | 0 | 97.7 | 77 - 118 | | | | |
| Xylenes, Total | 0.057 | 0.0060 | 0.06 | 0 | 94.4 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.049* | *0.0010* | *0.05* | *0* | *98.6* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *96.3* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *99.5* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: R525023 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD-251027** Units: **mg/L** Analysis Date: **27-Oct-2025 21:27**
Client ID: Run ID: **VOA7_525023** SeqNo: **9106528** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.017 | 0.0010 | 0.02 | 0 | 86.0 | 74 - 120 | 0.01750 | 1.71 | 20 | |
| Ethylbenzene | 0.019 | 0.0020 | 0.02 | 0 | 95.2 | 77 - 117 | 0.01982 | 4.04 | 20 | |
| m,p-Xylene | 0.036 | 0.0040 | 0.04 | 0 | 89.0 | 77 - 122 | 0.03754 | 5.28 | 20 | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0 | 93.0 | 75 - 119 | 0.01911 | 2.65 | 20 | |
| Toluene | 0.019 | 0.0020 | 0.02 | 0 | 92.7 | 77 - 118 | 0.01954 | 5.26 | 20 | |
| Xylenes, Total | 0.054 | 0.0060 | 0.06 | 0 | 90.4 | 75 - 122 | 0.05665 | 4.38 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *101* | *70 - 123* | *0.04932* | *2.81* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.053* | *0.0010* | *0.05* | *0* | *106* | *77 - 113* | *0.05093* | *3.54* | *20* | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.6* | *73 - 126* | *0.04816* | *1.27* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.0* | *81 - 120* | *0.04977* | *1.57* | *20* | |

**MS** Sample ID: **HS25101115-01MS** Units: **mg/L** Analysis Date: **28-Oct-2025 05:44**
Client ID: **LDNR-23** Run ID: **VOA7_525023** SeqNo: **9106544** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.018 | 0.0010 | 0.02 | 0 | 89.9 | 70 - 127 | | | | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 100 | 70 - 124 | | | | |
| m,p-Xylene | 0.037 | 0.0040 | 0.04 | 0 | 92.6 | 70 - 130 | | | | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0 | 96.1 | 70 - 124 | | | | |
| Toluene | 0.019 | 0.0020 | 0.02 | 0 | 94.6 | 70 - 123 | | | | |
| Xylenes, Total | 0.056 | 0.0060 | 0.06 | 0 | 93.8 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *99.1* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.8* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.048* | *0.0010* | *0.05* | *0* | *96.4* | *82 - 127* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: R525023 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MSD** Sample ID: **HS25101115-01MSD** Units: **mg/L** Analysis Date: **28-Oct-2025 06:06**
Client ID: **LDNR-23** Run ID: **VOA7_525023** SeqNo: **9106545** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.017 | 0.0010 | 0.02 | 0 | 86.7 | 70 - 127 | 0.01798 | 3.64 | 20 | |
| Ethylbenzene | 0.019 | 0.0020 | 0.02 | 0 | 94.9 | 70 - 124 | 0.02004 | 5.46 | 20 | |
| m,p-Xylene | 0.035 | 0.0040 | 0.04 | 0 | 87.3 | 70 - 130 | 0.03703 | 5.84 | 20 | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0 | 93.5 | 70 - 124 | 0.01922 | 2.71 | 20 | |
| Toluene | 0.018 | 0.0020 | 0.02 | 0 | 92.1 | 70 - 123 | 0.01893 | 2.75 | 20 | |
| Xylenes, Total | 0.054 | 0.0060 | 0.06 | 0 | 89.4 | 70 - 130 | 0.05625 | 4.76 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *99.3* | *70 - 126* | *0.04957* | *0.167* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *77 - 113* | *0.05162* | *0.822* | *20* | |
| *Surr: Dibromofluoromethane* | *0.047* | *0.0010* | *0.05* | *0* | *94.2* | *77 - 123* | *0.04888* | *3.67* | *20* | |
| *Surr: Toluene-d8* | *0.048* | *0.0010* | *0.05* | *0* | *96.7* | *82 - 127* | *0.04818* | *0.361* | *20* | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03 HS25101115-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: R524950 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-10.24.2025** Units: **mg/L** Analysis Date: **24-Oct-2025 18:31**
Client ID: Run ID: **Skalar 03_524950** SeqNo: **9104838** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-10.24.2025** Units: **mg/L** Analysis Date: **24-Oct-2025 18:37**
Client ID: Run ID: **Skalar 03_524950** SeqNo: **9104839** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 998.4 | 5.00 | 1000 | 0 | 99.8 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-10.24.2025** Units: **mg/L** Analysis Date: **24-Oct-2025 18:43**
Client ID: Run ID: **Skalar 03_524950** SeqNo: **9104840** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 996.8 | 5.00 | 1000 | 0 | 99.7 | 85 - 115 | 998.4 | 0.16 | 20 | |

**DUP** Sample ID: **HS25101229-05DUP** Units: **mg/L** Analysis Date: **24-Oct-2025 19:45**
Client ID: Run ID: **Skalar 03_524950** SeqNo: **9104850** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | 7.3 | 5.00 | | | | | 7.6 | 4.03 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | 0 | 0 | 20 | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID:** **R524954 ( 0 )** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

**DUP** Sample ID: **HS25101115-01DUP** Units: **pH Units** Analysis Date: **24-Oct-2025 18:56**
Client ID: **LDNR-23** Run ID: **Skalar 03_524954** SeqNo: **9104905** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.87 | 1.00 | | | | | 7.87 | 0 | 10 | |
| Temp Deg C @pH | 21.9 | 0 | | | | | 22 | 0.456 | 10 | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID:** R525034 ( 0 ) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **27-Oct-2025 11:47**
Client ID: Run ID: **ICS-04_525034** SeqNo: **9106862** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | 0.100 | | | | | | | | |
| Chloride | U | 0.500 | | | | | | | | |
| Sulfate | U | 0.500 | | | | | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **27-Oct-2025 11:59**
Client ID: Run ID: **ICS-04_525034** SeqNo: **9106863** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 3.786 | 0.100 | 4 | 0 | 94.7 | 80 - 120 | | | | |
| Chloride | 20.42 | 0.500 | 20 | 0 | 102 | 80 - 120 | | | | |
| Sulfate | 20.3 | 0.500 | 20 | 0 | 101 | 80 - 120 | | | | |

**MS** Sample ID: **HS25100935-06MS** Units: **mg/L** Analysis Date: **27-Oct-2025 15:30**
Client ID: Run ID: **ICS-04_525034** SeqNo: **9106888** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.824 | 0.100 | 2 | 0.1964 | 81.4 | 80 - 120 | | | | |
| Chloride | 104.1 | 0.500 | 10 | 96.26 | 78.6 | 80 - 120 | | | | SEO |
| Sulfate | 11.56 | 0.500 | 10 | 2.422 | 91.3 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25100935-06MSD** Units: **mg/L** Analysis Date: **27-Oct-2025 15:36**
Client ID: Run ID: **ICS-04_525034** SeqNo: **9106889** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.834 | 0.100 | 2 | 0.1964 | 81.9 | 80 - 120 | 1.824 | 0.509 | 20 | |
| Chloride | 104.3 | 0.500 | 10 | 96.26 | 80.4 | 80 - 120 | 104.1 | 0.179 | 20 | EO |
| Sulfate | 11.58 | 0.500 | 10 | 2.422 | 91.6 | 80 - 120 | 11.56 | 0.195 | 20 | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: R525035 ( 0 )** **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

**MBLK** Sample ID: **MBLK-R525035** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525035** SeqNo: **9106953** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R525035** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525035** SeqNo: **9106952** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.88 | 5.00 | 25 | 0 | 95.5 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-R525035** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525035** SeqNo: **9106951** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 24.08 | 5.00 | 25 | 0 | 96.3 | 85 - 115 | 23.88 | 0.834 | 20 | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525035** SeqNo: **9106955** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.08 | 5.00 | 25 | -0.72 | 95.2 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525035** SeqNo: **9106954** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.88 | 5.00 | 25 | -0.72 | 94.4 | 80 - 120 | 23.08 | 0.87 | 20 | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: R525060 ( 0 )** **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

**MBLK** Sample ID: **MBLK-R525060** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525060** SeqNo: **9107531** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | U | 1.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R525060** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525060** SeqNo: **9107530** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.37 | 1.00 | 26.56 | 0 | 95.5 | 80 - 120 | | | | |

**LCSD** Sample ID: **LCSD-R525060** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525060** SeqNo: **9107529** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.58 | 1.00 | 26.56 | 0 | 96.3 | 80 - 120 | 25.37 | 0.834 | 20 | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525060** SeqNo: **9107533** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.52 | 1.00 | 26.56 | -0.765 | 95.2 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525060** SeqNo: **9107532** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.31 | 1.00 | 26.56 | -0.765 | 94.4 | 80 - 120 | 24.52 | 0.87 | 20 | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101115

**QC BATCH REPORT**

**Batch ID: R525068 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-10282025** Units: **mg/L** Analysis Date: **28-Oct-2025 09:00**
Client ID: Run ID: **Balance1_525068** SeqNo: **9107720** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-10282025** Units: **mg/L** Analysis Date: **28-Oct-2025 09:00**
Client ID: Run ID: **Balance1_525068** SeqNo: **9107719** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 918 | 10.0 | 1000 | 0 | 91.8 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25101238-01DUP** Units: **mg/L** Analysis Date: **28-Oct-2025 09:00**
Client ID: Run ID: **Balance1_525068** SeqNo: **9107715** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1260 | 10.0 | | | | | 1232 | 2.25 | 20 | |

**DUP** Sample ID: **HS25101115-02DUP** Units: **mg/L** Analysis Date: **28-Oct-2025 09:00**
Client ID: **LDNR-03** Run ID: **Balance1_525068** SeqNo: **9107707** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 958 | 10.0 | | | | | 920 | 4.05 | 20 | |

**The following samples were analyzed in this batch:** HS25101115-01 HS25101115-02 HS25101115-03



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** **HS25101115**

**QUALIFIERS, ACRONYMS, UNITS**

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| M | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL/SDL |

| Acronym | Description |
|---|---|
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |
| SDL | Sample Detection Limit |
| TRRP | Texas Risk Reduction Program |

| Unit Reported | Description |
|---|---|
| mg/L | Milligrams per Liter |



RIGHT SOLUTIONS | RIGHT PARTNER

## CERTIFICATIONS,ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|---|---|---|
| Arizona | AZ0793 | 27-May-2026 |
| Arkansas | 88-00356_2024 | 17-Mar-2026 |
| California | 2919 - 2025 | 30-Apr-2026 |
| Dept of Defense | L24-239 | 30-Apr-2026 |
| Dept of Defense | L24-240 | 30-Apr-2026 |
| Florida | E87611-2025 | 30-Jun-2026 |
| Illinois | 200032 - 2025 | 31-Jul-2026 |
| Kansas | KS-C25-00168 | 31-Jul-2026 |
| Kentucky | 123043-2025 | 30-Apr-2026 |
| Louisiana | 03087-2025 | 30-Jun-2026 |
| Maine | 2024017 | 23-Jun-2026 |
| Michigan | 9971-2025 | 30-Apr-2026 |
| Minnesota | 2856348 | 31-Dec-2025 |
| Missouri | 136 | 30-Sep-2026 |
| Nebraska | NE-OS-25-13 - 2025 | 30-Apr-2026 |
| Nevada | NV-C25-00124 - 2025 | 31-Jul-2026 |
| New Hampshire | 209425 | 24-Apr-2026 |
| New Jersey | TX008-2025 | 30-Jun-2026 |
| New York | 11707 - 2025 | 01-Apr-2026 |
| North Carolina | 624 - 2024 | 31-Dec-2025 |
| Oregon | TX200002-013 | 15-May-2026 |
| Pennsylvania | 019 | 01-Jul-2026 |
| Tennessee | TN | 30-Apr-2026 |
| Texas | TX-C25-00104 | 30-Apr-2026 |



RIGHT SOLUTIONS | RIGHT PARTNER

## Sample Receipt Checklist

**Work Order ID:** HS25101115 **Date/Time Received:** **22-Oct-2025 12:54**

**Client Name:** ERMSW-HOU **Received by:** **Si Ma**

| **Completed By:** | /S/ Edgar Zheku | 22-Oct-2025 19:01 | **Reviewed by:** | /S/ Alexis Dorenbosch | 23-Oct-2025 12:50 |
|---|---|---|---|---|---|
| | eSignature | Date/Time | | eSignature | Date/Time |

Matrices: **W** Carrier name: **ALS Courier**

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | COC IDs:352002 |
| Samplers name present on COC? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |

| | | |
|---|---|---|
| Temperature(s)/Thermometer(s): | 3.8UC/3.8C | IR 34 |
| Cooler(s)/Kit(s): | 54606 | |
| Date/Time sample(s) sent to storage: | 10/22/2025 19:01 | |

| | | | |
|---|---|---|---|
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

# Chain of Custody Form

Page 1 of 1

COC ID: 352002

**HS25101115**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | |
|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome |
| Work Order | | Project Number | |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com |

| | |
|---|---|
| A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| C | HG_W (Mercury) |
| D | MA EPH_W_La (MA EPH) |
| E | MA VPH_LA_W |
| F | 9056_anions_W (Cl,SO4,Br) / pH |
| G | ALK_W 2320B (carb, bicarb) |
| H | H2S_W (H2S) |
| I | SULFD_4500S F (Sulfide) |
| J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LDNR-23 | 10/22/25 | 820 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | LDNR-03 | " | 830 | " | " | " | " | " | " | " | " | " | " | " | " | " | |
| 3 | LDNR-22 | " | 850 | " | " | " | " | " | " | " | " | " | " | " | " | " | |
| 4 | CG 100125-378 | | | | 1 | 2 | X | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: David Sanguinetti (DS)

Shipment Method:

Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other

Results Due Date:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Kelly McDair | Date: 10/22/25 | Time: 10:10 | Received by: | |
| Relinquished by: | | Date: 10/22/25 | Time: 1254 | Received by (Laboratory): | SM 10/22/25 12:54 |
| Logged by (Laboratory): | | Date: | Time: | Checked by (Laboratory): | |

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| 54606 | 3.8 |

QC Package: (Check One Box Below)

☒ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

November 03, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25101288**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 25 sample(s) on Oct 24, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

**Generated By: DAYNA.FISHER**
Alexis Dorenbosch
Project Manager

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**Work Order:** HS25101288

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS25101288-01 | MW-1-700 | Water | | 22-Oct-2025 10:20 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-02 | MW-1-500 | Water | | 22-Oct-2025 12:30 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-03 | MW-2-700 | Water | | 22-Oct-2025 15:20 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-04 | LDNR-17 | Water | | 22-Oct-2025 10:20 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-05 | LDNR-18 | Water | | 22-Oct-2025 10:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-06 | LDNR-21 | Water | | 22-Oct-2025 09:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-07 | LDNR-5 | Water | | 22-Oct-2025 10:45 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-08 | LDNR-09 | Water | | 22-Oct-2025 14:30 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-09 | GW-DUP-02 | Water | | 22-Oct-2025 00:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-10 | LDNR-01 | Water | | 22-Oct-2025 15:30 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-11 | 019-1603 | Water | | 23-Oct-2025 07:30 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-12 | Cottages | Water | | 23-Oct-2025 08:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-13 | PPG-07B | Water | | 23-Oct-2025 08:40 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-14 | MW-2-200 | Water | | 23-Oct-2025 08:30 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-15 | MW-2-500 | Water | | 23-Oct-2025 09:50 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-16 | GW-DUP-01 | Water | | 23-Oct-2025 00:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-17 | MW-1-200 | Water | | 23-Oct-2025 12:15 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-18 | FB-102325 | Water | | 23-Oct-2025 08:20 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-19 | CG-100125-384 | Water | | 23-Oct-2025 00:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-20 | CG-100125-373 | Water | | 23-Oct-2025 00:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-21 | CG-100125-374 | Water | | 23-Oct-2025 00:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-22 | CG-100125-382 | Water | | 23-Oct-2025 00:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-23 | CG-100125-386 | Water | | 23-Oct-2025 00:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-24 | CG-100125-371 | Water | | 23-Oct-2025 00:00 | 24-Oct-2025 11:24 | ☐ |
| HS25101288-25 | CG-100125-375 | Water | | 23-Oct-2025 00:00 | 24-Oct-2025 11:24 | ☐ |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25101288

## Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

## Work Order Comments

• Log In Notes:

Used time on bottle labels for samples with missing times

## GC Semivolatiles by Method MA EPH

### Batch ID: 234857

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GC Volatiles by Method MA VPH

### Batch ID: R525349,R525350,R525356,R525359

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GCMS Volatiles by Method SW8260

### Batch ID: R525139

**Sample ID: CG-100125-373 (HS25101288-20)**

• 4-Bromofluorobenzene is exceeded %recovery limits. Associated analytes are NOT reported.

**Sample ID: CG-100125-375 (HS25101288-25)**

• 4-Bromofluorobenzene is exceeded %recovery limits. Associated analytes are NOT reported.

**Sample ID: CG-100125-386 (HS25101288-23)**

• 4-Bromofluorobenzene is exceeded %recovery limits. Associated analytes are NOT reported.

**Sample ID: Cottages (HS25101288-12)**

• 4-Bromofluorobenzene is exceeded %recovery limits. Associated analytes are NOT reported.

**Sample ID: FB-102325 (HS25101288-18)**

• 4-Bromofluorobenzene is exceeded %recovery limits. Associated analytes are NOT reported.

**Sample ID: MW-2-200 (HS25101288-14)**

• 4-Bromofluorobenzene is exceeded %recovery limits. Associated analytes are NOT reported.

**Sample ID: PPG-07B (HS25101288-13)**

• 4-Bromofluorobenzene is exceeded %recovery limits. Associated analytes are NOT reported.



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25101288

## GCMS Volatiles by Method SW8260

### Batch ID: R525045

**Sample ID: LDNR-17 (HS25101288-04)**

- 4-Bromofluorobenzene is exceeded %recovery limits. Associated analytes are NOT reported.

**Sample ID: MW-1-500 (HS25101288-02)**

- 4-Bromofluorobenzene is exceeded %recovery limits. Associated analytes are NOT reported.

## Metals by Method SW6020A

### Batch ID: 234882

**Sample ID: LDNR-5 (HS25101288-07MS)**

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Calcium, Sodium.

**Sample ID: LDNR-5 (HS25101288-07PDS)**

- The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. Calcium.

**Sample ID: PPG-07B (HS25101288-13)**

- Sample ran at a 50X dilution due to high concentration of Sodium.

### Batch ID: 234880

**Sample ID: MW-2-500 (HS25101288-15MS)**

- Manganese failed on the MS\MSD but passed on the PDS.

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Potassium, Sodium, Strontium.

**Sample ID: MW-2-500 (HS25101288-15MSD)**

- Calcium failed on the MSD but passed on the MS and PDS.

**Sample ID: MW-2-500 (HS25101288-15PDS)**

- The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. Strontium.

## Metals by Method SW7470A

### Batch ID: 234794,234795

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method SM2320B

### Batch ID: R525148,R525149

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25101288

**WetChemistry by Method M2540C**

**Batch ID: R525183,R525193,R525278**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SM4500H+ B**

**Batch ID: R525160,R525162**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method E376.1**

**Batch ID: R525060,R525235**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SW9056**

**Batch ID: R525036**

**Sample ID: PPG-07B (HS25101288-13)**

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Bromide)

**WetChemistry by Method SM4500 S2-F**

**Batch ID: R525035,R525234**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 22-Oct-2025 10:20

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 15:37 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 15:37 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 15:37 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 15:37 |
| **Toluene** | **0.00067** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 28-Oct-2025 15:37 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 15:37 |
| *Surr: 1,2-Dichloroethane-d4* | *85.1* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 15:37* |
| *Surr: 4-Bromofluorobenzene* | *113* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 15:37* |
| *Surr: Dibromofluoromethane* | *92.8* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 15:37* |
| *Surr: Toluene-d8* | *99.6* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 15:37* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 13:58 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 13:58 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 13:58 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *104* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 13:58* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *105* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 13:58* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 15:16 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 15:16 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 15:16 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 15:16 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 15:16 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 15:16 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 15:16 |
| *Surr: 1-Chlorooctadecane* | *80.3* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 15:16* |
| *Surr: 2-Bromonaphthalene* | *93.3* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 15:16* |
| *Surr: 2-Fluorobiphenyl* | *94.8* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 15:16* |
| *Surr: o-Terphenyl* | *94.0* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 15:16* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 22-Oct-2025 10:20

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.00174** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Barium** | **0.0627** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Calcium** | **2.65** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 10:44 |
| **Iron** | **0.946** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Lead** | **0.000771** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Magnesium** | **0.367** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Manganese** | **0.0104** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Nickel** | **0.00421** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Potassium** | **2.76** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Sodium** | **231** | | **2.60** | **10.0** | **mg/L** | 20 | 01-Nov-2025 13:52 |
| **Strontium** | **0.0687** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Vanadium** | **0.00100** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **Zinc** | **0.00573** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 10:44 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 13:50 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **504** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 08:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **197** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:07 |
| **Alkalinity, Carbonate (As CaCO3)** | **89.4** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:07 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **9.58** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.7** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.102** | | **0.0300** | **0.100** | **mg/L** | 1 | 27-Oct-2025 15:42 |
| **Chloride** | **100** | | **1.00** | **2.50** | **mg/L** | 5 | 27-Oct-2025 16:00 |
| **Sulfate** | **0.319** | J | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 15:42 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 22-Oct-2025 12:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 15:58 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 15:58 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 15:58 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 15:58 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 15:58 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 15:58 |
| *Surr: 1,2-Dichloroethane-d4* | *85.1* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 15:58* |
| *Surr: 4-Bromofluorobenzene* | *114* | *S* | | *77-113* | *%REC* | *1* | *28-Oct-2025 15:58* |
| *Surr: Dibromofluoromethane* | *95.2* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 15:58* |
| *Surr: Toluene-d8* | *98.9* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 15:58* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 00:58 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 00:58 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 00:58 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *101* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 00:58* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *98.4* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 00:58* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:09 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:09 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:09 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:09 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:09 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:09 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:09 |
| *Surr: 1-Chlorooctadecane* | *97.2* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 18:09* |
| *Surr: 2-Bromonaphthalene* | *94.5* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 18:09* |
| *Surr: 2-Fluorobiphenyl* | *92.0* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 18:09* |
| *Surr: o-Terphenyl* | *105* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 18:09* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 22-Oct-2025 12:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 01-Nov-2025 10:52 |
| **Barium** | **0.217** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:52 |
| **Calcium** | **11.1** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:52 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 10:52 |
| **Iron** | **1.18** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 10:52 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 10:52 |
| **Magnesium** | **5.52** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 10:52 |
| **Manganese** | **0.0366** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:52 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 10:52 |
| **Potassium** | **10.2** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:52 |
| **Sodium** | **53.0** | | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:52 |
| **Strontium** | **0.265** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:52 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 01-Nov-2025 10:52 |
| **Zinc** | **0.00742** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 10:52 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 13:52 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **204** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 08:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **127** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:13 |
| **Alkalinity, Carbonate (As CaCO3)** | **9.00** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:13 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.64** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.6** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 15:48 |
| **Chloride** | **21.8** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 15:48 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 27-Oct-2025 15:48 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 22-Oct-2025 15:20

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 16:20 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 16:20 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 16:20 |
| **o-Xylene** | **0.0015** | J | **0.00031** | **0.0020** | **mg/L** | 1 | 28-Oct-2025 16:20 |
| Toluene | U | | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 16:20 |
| **Xylenes, Total** | **0.0015** | J | **0.00092** | **0.0060** | **mg/L** | 1 | 28-Oct-2025 16:20 |
| *Surr: 1,2-Dichloroethane-d4* | *84.1* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 16:20* |
| *Surr: 4-Bromofluorobenzene* | *113* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 16:20* |
| *Surr: Dibromofluoromethane* | *94.8* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 16:20* |
| *Surr: Toluene-d8* | *99.5* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 16:20* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 01:37 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 01:37 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 01:37 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *96.4* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 01:37* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *96.4* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 01:37* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:37 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:37 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:37 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:37 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:37 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:37 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 18:37 |
| *Surr: 1-Chlorooctadecane* | *82.6* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 18:37* |
| *Surr: 2-Bromonaphthalene* | *94.1* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 18:37* |
| *Surr: 2-Fluorobiphenyl* | *92.6* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 18:37* |
| *Surr: o-Terphenyl* | *100* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 18:37* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 22-Oct-2025 15:20

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.000969** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| **Barium** | **0.0184** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| **Calcium** | **1.76** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 10:54 |
| **Iron** | **0.496** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 10:54 |
| **Magnesium** | **0.0872** | J | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| **Manganese** | **0.0273** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| **Nickel** | **0.00132** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| **Potassium** | **4.30** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| **Sodium** | **214** | | **2.60** | **10.0** | **mg/L** | 20 | 01-Nov-2025 14:00 |
| **Strontium** | **0.0344** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| **Vanadium** | **0.000729** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| **Zinc** | **0.00587** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 10:54 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 13:53 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **0.722** | J | **0.500** | **1.00** | **mg/L** | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **498** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 08:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **73.6** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:18 |
| **Alkalinity, Carbonate (As CaCO3)** | **123** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:18 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **10.1** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.7** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.178** | | **0.0300** | **0.100** | **mg/L** | 1 | 27-Oct-2025 15:54 |
| **Chloride** | **168** | | **1.00** | **2.50** | **mg/L** | 5 | 27-Oct-2025 16:05 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 27-Oct-2025 15:54 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-17
Collection Date: 22-Oct-2025 10:20

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 16:41 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 16:41 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 16:41 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 16:41 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 16:41 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 16:41 |
| *Surr: 1,2-Dichloroethane-d4* | *85.8* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 16:41* |
| *Surr: 4-Bromofluorobenzene* | *114* | *S* | | *77-113* | *%REC* | *1* | *28-Oct-2025 16:41* |
| *Surr: Dibromofluoromethane* | *94.2* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 16:41* |
| *Surr: Toluene-d8* | *101* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 16:41* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 12:39 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 12:39 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 12:39 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *104* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 12:39* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *104* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 12:39* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 19:06 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 19:06 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 19:06 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 19:06 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 19:06 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 19:06 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 19:06 |
| *Surr: 1-Chlorooctadecane* | *86.1* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 19:06* |
| *Surr: 2-Bromonaphthalene* | *90.4* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 19:06* |
| *Surr: 2-Fluorobiphenyl* | *88.1* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 19:06* |
| *Surr: o-Terphenyl* | *89.4* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 19:06* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-17
Collection Date: 22-Oct-2025 10:20

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.000984** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| **Barium** | **0.230** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| **Calcium** | **78.9** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 10:57 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 01-Nov-2025 10:57 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 10:57 |
| **Magnesium** | **15.2** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| **Manganese** | **0.326** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 10:57 |
| **Potassium** | **2.99** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| **Sodium** | **178** | | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| **Strontium** | **0.555** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| **Vanadium** | **0.00177** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| **Zinc** | **0.00314** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 10:57 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 13:55 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **1.78** | | **0.500** | **1.00** | **mg/L** | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **658** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 08:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **167** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:24 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 21:24 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **1.68** | J | **0.920** | **5.00** | **mg/L** | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.91** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.7** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 17:04 |
| **Chloride** | **284** | | **2.00** | **5.00** | **mg/L** | 10 | 27-Oct-2025 17:22 |
| **Sulfate** | **62.1** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 17:04 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-18
Collection Date: 22-Oct-2025 10:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 17:03 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 17:03 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 17:03 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 17:03 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 17:03 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 17:03 |
| *Surr: 1,2-Dichloroethane-d4* | *83.9* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 17:03* |
| *Surr: 4-Bromofluorobenzene* | *112* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 17:03* |
| *Surr: Dibromofluoromethane* | *92.9* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 17:03* |
| *Surr: Toluene-d8* | *100* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 17:03* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 03:34 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 03:34 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 03:34 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *106* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 03:34* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *105* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 03:34* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 20:33 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 20:33 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 20:33 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 20:33 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 20:33 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 20:33 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 20:33 |
| *Surr: 1-Chlorooctadecane* | *90.2* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 20:33* |
| *Surr: 2-Bromonaphthalene* | *94.8* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 20:33* |
| *Surr: 2-Fluorobiphenyl* | *91.8* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 20:33* |
| *Surr: o-Terphenyl* | *98.8* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 20:33* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-18
Collection Date: 22-Oct-2025 10:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.00111** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 10:59 |
| **Barium** | **0.243** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:59 |
| **Calcium** | **79.5** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:59 |
| **Chromium** | **0.00203** | J | **0.00173** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:59 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 01-Nov-2025 10:59 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 10:59 |
| **Magnesium** | **15.5** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 10:59 |
| **Manganese** | **0.368** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:59 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 10:59 |
| **Potassium** | **3.01** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:59 |
| **Sodium** | **188** | | **2.60** | **10.0** | **mg/L** | 20 | 01-Nov-2025 14:02 |
| **Strontium** | **0.578** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:59 |
| **Vanadium** | **0.00176** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:59 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 01-Nov-2025 10:59 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 13:57 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **612** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 08:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **166** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:29 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 21:29 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.92** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.8** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 17:10 |
| **Chloride** | **286** | | **2.00** | **5.00** | **mg/L** | 10 | 27-Oct-2025 17:28 |
| **Sulfate** | **63.0** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 17:10 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-21
Collection Date: 22-Oct-2025 09:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 17:25 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 17:25 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 17:25 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 17:25 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 17:25 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 17:25 |
| *Surr: 1,2-Dichloroethane-d4* | *89.0* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 17:25* |
| *Surr: 4-Bromofluorobenzene* | *110* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 17:25* |
| *Surr: Dibromofluoromethane* | *95.5* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 17:25* |
| *Surr: Toluene-d8* | *99.0* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 17:25* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 04:13 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 04:13 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 04:13 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *96.0* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 04:13* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *96.0* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 04:13* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:02 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:02 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:02 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:02 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:02 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:02 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:02 |
| *Surr: 1-Chlorooctadecane* | *75.1* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:02* |
| *Surr: 2-Bromonaphthalene* | *92.9* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:02* |
| *Surr: 2-Fluorobiphenyl* | *94.8* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:02* |
| *Surr: o-Terphenyl* | *92.5* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:02* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-21
Collection Date: 22-Oct-2025 09:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.00105** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 11:01 |
| **Barium** | **0.255** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:01 |
| **Calcium** | **83.0** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:01 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 11:01 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 01-Nov-2025 11:01 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 11:01 |
| **Magnesium** | **16.3** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 11:01 |
| **Manganese** | **0.384** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:01 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 11:01 |
| **Potassium** | **3.13** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:01 |
| **Sodium** | **200** | | **2.60** | **10.0** | **mg/L** | 20 | 01-Nov-2025 14:04 |
| **Strontium** | **0.598** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:01 |
| **Vanadium** | **0.00180** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:01 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 01-Nov-2025 11:01 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 13:58 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **738** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 08:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **166** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:35 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 21:35 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.93** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **22.0** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 18:21 |
| **Chloride** | **288** | | **2.00** | **5.00** | **mg/L** | 10 | 27-Oct-2025 18:56 |
| **Sulfate** | **63.0** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 18:21 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-5
Collection Date: 22-Oct-2025 10:45

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 17:46 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 17:46 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 17:46 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 17:46 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 17:46 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 17:46 |
| *Surr: 1,2-Dichloroethane-d4* | *93.8* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 17:46* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 17:46* |
| *Surr: Dibromofluoromethane* | *96.1* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 17:46* |
| *Surr: Toluene-d8* | *99.4* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 17:46* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 30-Oct-2025 14:37 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 30-Oct-2025 14:37 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 30-Oct-2025 14:37 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *91.6* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 14:37* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *91.6* | | | *70-130* | *%REC* | *1* | *30-Oct-2025 14:37* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 13:49 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 13:49 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 13:49 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 13:49 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 13:49 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 13:49 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 13:49 |
| *Surr: 1-Chlorooctadecane* | *61.9* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 13:49* |
| *Surr: 2-Bromonaphthalene* | *97.7* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 13:49* |
| *Surr: 2-Fluorobiphenyl* | *94.3* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 13:49* |
| *Surr: o-Terphenyl* | *67.3* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 13:49* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-5
Collection Date: 22-Oct-2025 10:45

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.000902** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| **Barium** | **0.237** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| **Calcium** | **78.4** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| **Chromium** | **0.00304** | J | **0.00173** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 01-Nov-2025 10:36 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 10:36 |
| **Magnesium** | **15.5** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| **Manganese** | **0.368** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 10:36 |
| **Potassium** | **2.92** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| **Sodium** | **187** | | **2.60** | **10.0** | **mg/L** | 20 | 01-Nov-2025 13:54 |
| **Strontium** | **0.567** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| **Vanadium** | **0.00156** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| **Zinc** | **0.00307** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 10:36 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 14:00 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **1,050** | | **3.00** | **10.0** | **mg/L** | 1 | 28-Oct-2025 17:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **166** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:59 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 21:59 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.96** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.9** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 17:16 |
| **Chloride** | **279** | | **2.00** | **5.00** | **mg/L** | 10 | 27-Oct-2025 17:34 |
| **Sulfate** | **62.9** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 17:16 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-09
Collection Date: 22-Oct-2025 14:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 18:08 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 18:08 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 18:08 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 18:08 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 18:08 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 18:08 |
| *Surr: 1,2-Dichloroethane-d4* | *93.9* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 18:08* |
| *Surr: 4-Bromofluorobenzene* | *109* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 18:08* |
| *Surr: Dibromofluoromethane* | *96.0* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 18:08* |
| *Surr: Toluene-d8* | *99.6* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 18:08* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 04:51 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 04:51 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 04:51 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *102* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 04:51* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *103* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 04:51* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:31 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:31 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:31 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:31 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:31 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:31 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:31 |
| *Surr: 1-Chlorooctadecane* | *72.3* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:31* |
| *Surr: 2-Bromonaphthalene* | *97.2* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:31* |
| *Surr: 2-Fluorobiphenyl* | *97.2* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:31* |
| *Surr: o-Terphenyl* | *75.9* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:31* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-09
Collection Date: 22-Oct-2025 14:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.00255** | | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Barium** | **0.206** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Calcium** | **52.6** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 11:03 |
| **Iron** | **1.24** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Lead** | **0.000498** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Magnesium** | **7.23** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Manganese** | **0.193** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Nickel** | **0.00134** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Potassium** | **1.58** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Sodium** | **115** | | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Strontium** | **0.413** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Vanadium** | **0.00318** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **Zinc** | **0.0268** | | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 11:03 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 14:11 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **886** | | **3.00** | **10.0** | **mg/L** | 1 | 28-Oct-2025 17:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **184** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 21:40 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 21:40 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.76** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.9** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 18:26 |
| **Chloride** | **136** | | **2.00** | **5.00** | **mg/L** | 10 | 27-Oct-2025 19:02 |
| **Sulfate** | **17.3** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 18:26 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP-02
Collection Date: 22-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 18:29 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 18:29 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 18:29 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 18:29 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 18:29 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 18:29 |
| *Surr: 1,2-Dichloroethane-d4* | *89.2* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 18:29* |
| *Surr: 4-Bromofluorobenzene* | *113* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 18:29* |
| *Surr: Dibromofluoromethane* | *95.6* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 18:29* |
| *Surr: Toluene-d8* | *100* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 18:29* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 05:31 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 05:31 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 05:31 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *99.2* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 05:31* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *98.8* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 05:31* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:59 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:59 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:59 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:59 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:59 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:59 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 21:59 |
| *Surr: 1-Chlorooctadecane* | *69.7* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:59* |
| *Surr: 2-Bromonaphthalene* | *87.0* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:59* |
| *Surr: 2-Fluorobiphenyl* | *91.0* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:59* |
| *Surr: o-Terphenyl* | *73.9* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 21:59* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP-02
Collection Date: 22-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.00242** | | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **Barium** | **0.206** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **Calcium** | **51.5** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 11:05 |
| **Iron** | **1.21** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 11:05 |
| **Magnesium** | **7.05** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **Manganese** | **0.189** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **Nickel** | **0.00131** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **Potassium** | **1.57** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **Sodium** | **111** | | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **Strontium** | **0.400** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **Vanadium** | **0.00329** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **Zinc** | **0.0255** | | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 11:05 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 14:12 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **1.78** | | **0.500** | **1.00** | **mg/L** | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **656** | | **3.00** | **10.0** | **mg/L** | 1 | 28-Oct-2025 17:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **181** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:10 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 22:10 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **1.68** | J | **0.920** | **5.00** | **mg/L** | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.76** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.8** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 18:32 |
| **Chloride** | **135** | | **2.00** | **5.00** | **mg/L** | 10 | 27-Oct-2025 19:08 |
| **Sulfate** | **17.2** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 18:32 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-01
Collection Date: 22-Oct-2025 15:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-10
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| **Benzene** | **0.0021** | | **0.00028** | **0.0010** | **mg/L** | 1 | 28-Oct-2025 18:51 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 18:51 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 18:51 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 18:51 |
| **Toluene** | **0.00092** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 28-Oct-2025 18:51 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 18:51 |
| *Surr: 1,2-Dichloroethane-d4* | *85.9* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 18:51* |
| *Surr: 4-Bromofluorobenzene* | *112* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 18:51* |
| *Surr: Dibromofluoromethane* | *95.1* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 18:51* |
| *Surr: Toluene-d8* | *99.2* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 18:51* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| **Aliphatics >C6 - C8** | **0.0400** | | **0.00180** | **0.00500** | **mg/L** | 1 | 31-Oct-2025 06:10 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 06:10 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 06:10 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *101* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 06:10* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *103* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 06:10* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| **Aliphatics >C10 - C12** | **0.0271** | J | **0.0250** | **0.100** | **mg/L** | 1 | 29-Oct-2025 22:28 |
| **Aliphatics >C12 - C16** | **0.137** | | **0.0250** | **0.100** | **mg/L** | 1 | 29-Oct-2025 22:28 |
| **Aliphatics >C16 - C35** | **0.694** | | **0.0250** | **0.100** | **mg/L** | 1 | 29-Oct-2025 22:28 |
| **Aromatics >C10 - C12** | **0.0279** | J | **0.0250** | **0.100** | **mg/L** | 1 | 29-Oct-2025 22:28 |
| **Aromatics >C12 - C16** | **0.0421** | J | **0.0250** | **0.100** | **mg/L** | 1 | 29-Oct-2025 22:28 |
| **Aromatics >C16 - C21** | **0.0829** | J | **0.0250** | **0.100** | **mg/L** | 1 | 29-Oct-2025 22:28 |
| **Aromatics >C21 - C35** | **0.108** | | **0.0250** | **0.100** | **mg/L** | 1 | 29-Oct-2025 22:28 |
| *Surr: 1-Chlorooctadecane* | *101* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 22:28* |
| *Surr: 2-Bromonaphthalene* | *102* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 22:28* |
| *Surr: 2-Fluorobiphenyl* | *97.7* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 22:28* |
| *Surr: o-Terphenyl* | *96.7* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 22:28* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-01
Collection Date: 22-Oct-2025 15:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-10
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.00399** | | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **Barium** | **0.937** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **Calcium** | **237** | | **2.40** | **10.0** | **mg/L** | 20 | 01-Nov-2025 14:06 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 11:07 |
| **Iron** | **7.43** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **Lead** | **0.00156** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **Magnesium** | **59.0** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **Manganese** | **3.99** | | **0.0380** | **0.100** | **mg/L** | 20 | 01-Nov-2025 14:06 |
| **Nickel** | **0.00305** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **Potassium** | **12.9** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **Sodium** | **329** | | **2.60** | **10.0** | **mg/L** | 20 | 01-Nov-2025 14:06 |
| **Strontium** | **1.69** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **Vanadium** | **0.00621** | | **0.000600** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **Zinc** | **0.0182** | | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 11:07 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 14:33 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **1.78** | | **0.500** | **1.00** | **mg/L** | 1 | 27-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **2,100** | | **3.00** | **10.0** | **mg/L** | 1 | 28-Oct-2025 17:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **345** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:15 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 22:15 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **1.68** | J | **0.920** | **5.00** | **mg/L** | 1 | 27-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.25** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.9** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.459** | | **0.0300** | **0.100** | **mg/L** | 1 | 27-Oct-2025 18:38 |
| **Chloride** | **705** | | **4.00** | **10.0** | **mg/L** | 20 | 27-Oct-2025 19:13 |
| **Sulfate** | **4.80** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 18:38 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 23-Oct-2025 07:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-11
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 02:04 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 02:04 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 02:04 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 02:04 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 02:04 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 02:04 |
| *Surr: 1,2-Dichloroethane-d4* | *93.4* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 02:04* |
| *Surr: 4-Bromofluorobenzene* | *112* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 02:04* |
| *Surr: Dibromofluoromethane* | *97.8* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 02:04* |
| *Surr: Toluene-d8* | *98.4* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 02:04* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 06:49 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 06:49 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 06:49 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *112* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 06:49* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *111* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 06:49* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 22:57 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 22:57 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 22:57 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 22:57 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 22:57 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 22:57 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 22:57 |
| *Surr: 1-Chlorooctadecane* | *74.2* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 22:57* |
| *Surr: 2-Bromonaphthalene* | *97.6* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 22:57* |
| *Surr: 2-Fluorobiphenyl* | *95.2* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 22:57* |
| *Surr: o-Terphenyl* | *86.7* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 22:57* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 23-Oct-2025 07:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-11
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 01-Nov-2025 11:09 |
| **Barium** | **0.239** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:09 |
| **Calcium** | **27.0** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:09 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 11:09 |
| **Iron** | **3.93** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 11:09 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 11:09 |
| **Magnesium** | **7.91** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 11:09 |
| **Manganese** | **0.385** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:09 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 11:09 |
| **Potassium** | **3.39** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:09 |
| **Sodium** | **42.1** | | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 11:09 |
| **Strontium** | **0.238** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 11:09 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 01-Nov-2025 11:09 |
| **Zinc** | **0.0106** | | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 11:09 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 14:35 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **0.722** | J | **0.500** | **1.00** | **mg/L** | 1 | 29-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: HB |
| **Total Dissolved Solids (Residue, Filterable)** | **268** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 17:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **124** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:21 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 22:21 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.47** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.9** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0798** | J | **0.0300** | **0.100** | **mg/L** | 1 | 27-Oct-2025 18:44 |
| **Chloride** | **39.8** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 18:44 |
| **Sulfate** | **2.38** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 18:44 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 23-Oct-2025 08:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-12
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 02:25 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 02:25 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 02:25 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 02:25 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 02:25 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 02:25 |
| *Surr: 1,2-Dichloroethane-d4* | *93.3* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 02:25* |
| *Surr: 4-Bromofluorobenzene* | *114* | *S* | | *77-113* | *%REC* | *1* | *29-Oct-2025 02:25* |
| *Surr: Dibromofluoromethane* | *96.4* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 02:25* |
| *Surr: Toluene-d8* | *98.9* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 02:25* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 07:27 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 07:27 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 07:27 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *99.2* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 07:27* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *101* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 07:27* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:16 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:16 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:16 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 10:47 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 10:47 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 10:47 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 10:47 |
| *Surr: 1-Chlorooctadecane* | *68.9* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 11:16* |
| *Surr: 2-Bromonaphthalene* | *89.4* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 10:47* |
| *Surr: 2-Fluorobiphenyl* | *89.5* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 10:47* |
| *Surr: o-Terphenyl* | *76.1* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 10:47* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 23-Oct-2025 08:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-12
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 01-Nov-2025 13:33 |
| **Barium** | **0.199** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:33 |
| **Calcium** | **16.6** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:33 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:33 |
| **Iron** | **5.83** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 13:33 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 13:33 |
| **Magnesium** | **4.40** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 13:33 |
| **Manganese** | **0.234** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:33 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:33 |
| **Potassium** | **2.57** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:33 |
| **Sodium** | **67.7** | | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:33 |
| **Strontium** | **0.190** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:33 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:33 |
| **Zinc** | **0.107** | | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 13:33 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 14:37 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **1.78** | | **0.500** | **1.00** | **mg/L** | 1 | 29-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: HB |
| **Total Dissolved Solids (Residue, Filterable)** | **266** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 17:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **125** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:26 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 22:26 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **1.68** | J | **0.920** | **5.00** | **mg/L** | 1 | 29-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.60** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **22.1** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0853** | J | **0.0300** | **0.100** | **mg/L** | 1 | 27-Oct-2025 18:50 |
| **Chloride** | **47.6** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 18:50 |
| **Sulfate** | **0.224** | J | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 18:50 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-07B
Collection Date: 23-Oct-2025 08:40

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-13
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 02:47 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 02:47 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 02:47 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 02:47 |
| Toluene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 02:47 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 02:47 |
| *Surr: 1,2-Dichloroethane-d4* | *107* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 02:47* |
| *Surr: 4-Bromofluorobenzene* | *115* | *S* | | *77-113* | *%REC* | *1* | *29-Oct-2025 02:47* |
| *Surr: Dibromofluoromethane* | *100* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 02:47* |
| *Surr: Toluene-d8* | *99.3* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 02:47* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| **Aliphatics >C6 - C8** | **0.0320** | | **0.00180** | **0.00500** | **mg/L** | 1 | 31-Oct-2025 08:06 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 08:06 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 08:06 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *97.6* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 08:06* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *96.4* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 08:06* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:45 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:45 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:45 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:16 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:16 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:16 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:16 |
| *Surr: 1-Chlorooctadecane* | *82.0* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 11:45* |
| *Surr: 2-Bromonaphthalene* | *92.2* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 11:16* |
| *Surr: 2-Fluorobiphenyl* | *89.9* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 11:16* |
| *Surr: o-Terphenyl* | *95.5* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 11:16* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-07B
Collection Date: 23-Oct-2025 08:40

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-13
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| Arsenic | U | | 0.0255 | 0.100 | mg/L | 50 | 01-Nov-2025 13:23 |
| **Barium** | **2.46** | | **0.0375** | **0.250** | **mg/L** | 50 | 01-Nov-2025 13:23 |
| **Calcium** | **221** | | **6.00** | **25.0** | **mg/L** | 50 | 01-Nov-2025 13:23 |
| Chromium | U | | 0.0865 | 0.250 | mg/L | 50 | 01-Nov-2025 13:23 |
| Iron | U | | 3.00 | 10.0 | mg/L | 50 | 01-Nov-2025 13:23 |
| Lead | U | | 0.0235 | 0.100 | mg/L | 50 | 01-Nov-2025 13:23 |
| **Magnesium** | **5.38** | J | **2.04** | **10.0** | **mg/L** | 50 | 01-Nov-2025 13:23 |
| **Manganese** | **0.484** | | **0.0950** | **0.250** | **mg/L** | 50 | 01-Nov-2025 13:23 |
| Nickel | U | | 0.0650 | 0.250 | mg/L | 50 | 01-Nov-2025 13:23 |
| **Potassium** | **10.3** | J | **4.34** | **25.0** | **mg/L** | 50 | 01-Nov-2025 13:23 |
| **Sodium** | **51,600** | | **650** | **2500** | **mg/L** | 5000 | 01-Nov-2025 13:50 |
| **Strontium** | **1.32** | | **0.0150** | **0.250** | **mg/L** | 50 | 01-Nov-2025 13:23 |
| Vanadium | U | | 0.0300 | 0.250 | mg/L | 50 | 01-Nov-2025 13:23 |
| **Zinc** | **0.675** | | **0.150** | **0.500** | **mg/L** | 50 | 01-Nov-2025 13:23 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 14:38 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: HB |
| **Total Dissolved Solids (Residue, Filterable)** | **97,700** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 17:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **231** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:32 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 22:32 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.26** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.9** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **4.22** | J | **1.50** | **5.00** | **mg/L** | 50 | 27-Oct-2025 19:49 |
| **Chloride** | **70,900** | | **200** | **500** | **mg/L** | 1000 | 27-Oct-2025 20:18 |
| **Sulfate** | **233** | | **10.0** | **25.0** | **mg/L** | 50 | 27-Oct-2025 19:49 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 23-Oct-2025 08:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-14
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 03:08 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 03:08 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 03:08 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 03:08 |
| **Toluene** | **0.00049** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 29-Oct-2025 03:08 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 03:08 |
| *Surr: 1,2-Dichloroethane-d4* | *92.8* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 03:08* |
| *Surr: 4-Bromofluorobenzene* | *115* | *S* | | *77-113* | *%REC* | *1* | *29-Oct-2025 03:08* |
| *Surr: Dibromofluoromethane* | *97.1* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 03:08* |
| *Surr: Toluene-d8* | *98.5* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 03:08* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 08:45 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 08:45 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 08:45 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *109* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 08:45* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *109* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 08:45* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:14 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:14 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:14 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:45 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:45 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:45 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 11:45 |
| *Surr: 1-Chlorooctadecane* | *77.9* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 12:14* |
| *Surr: 2-Bromonaphthalene* | *90.1* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 11:45* |
| *Surr: 2-Fluorobiphenyl* | *87.4* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 11:45* |
| *Surr: o-Terphenyl* | *79.5* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 11:45* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 23-Oct-2025 08:30

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-14
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.00437** | | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| **Barium** | **0.203** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| **Calcium** | **20.1** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:35 |
| **Iron** | **1.22** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 13:35 |
| **Magnesium** | **5.26** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| **Manganese** | **0.0410** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:35 |
| **Potassium** | **3.84** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| **Sodium** | **88.6** | | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| **Strontium** | **0.339** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:35 |
| **Zinc** | **0.00559** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 13:35 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 14:40 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **0.722** | J | **0.500** | **1.00** | **mg/L** | 1 | 29-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: HB |
| **Total Dissolved Solids (Residue, Filterable)** | **302** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 17:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **200** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:37 |
| **Alkalinity, Carbonate (As CaCO3)** | **9.20** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:37 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.48** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.8** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 19:55 |
| **Chloride** | **27.8** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 19:55 |
| **Sulfate** | **1.03** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 19:55 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 23-Oct-2025 09:50

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-15
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 03:30 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 03:30 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 03:30 |
| **o-Xylene** | **0.0018** | J | **0.00031** | **0.0020** | **mg/L** | 1 | 29-Oct-2025 03:30 |
| **Toluene** | **0.00051** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 29-Oct-2025 03:30 |
| **Xylenes, Total** | **0.0018** | J | **0.00092** | **0.0060** | **mg/L** | 1 | 29-Oct-2025 03:30 |
| *Surr: 1,2-Dichloroethane-d4* | *90.7* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 03:30* |
| *Surr: 4-Bromofluorobenzene* | *112* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 03:30* |
| *Surr: Dibromofluoromethane* | *94.5* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 03:30* |
| *Surr: Toluene-d8* | *98.4* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 03:30* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 13:17 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 13:17 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 13:17 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *91.2* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 13:17* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *89.6* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 13:17* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 16:42 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 16:42 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 16:42 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 16:42 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 16:42 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 16:42 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 29-Oct-2025 16:42 |
| *Surr: 1-Chlorooctadecane* | *77.5* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 16:42* |
| *Surr: 2-Bromonaphthalene* | *98.1* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 16:42* |
| *Surr: 2-Fluorobiphenyl* | *94.5* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 16:42* |
| *Surr: o-Terphenyl* | *96.0* | | | *40-140* | *%REC* | *1* | *29-Oct-2025 16:42* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 23-Oct-2025 09:50

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-15
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: MSC |
| **Arsenic** | **0.00103** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **Barium** | **0.112** | | **0.000750** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **Calcium** | **8.60** | | **0.120** | **0.500** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 30-Oct-2025 18:29 |
| **Iron** | **2.61** | | **0.0600** | **0.200** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 30-Oct-2025 18:29 |
| **Magnesium** | **1.31** | | **0.0408** | **0.200** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **Manganese** | **0.0670** | | **0.00190** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **Nickel** | **0.00131** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **Potassium** | **50.9** | | **0.0869** | **0.500** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **Sodium** | **65.7** | | **0.130** | **0.500** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **Strontium** | **0.597** | | **0.000300** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **Vanadium** | **0.000618** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **Zinc** | **0.00636** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 30-Oct-2025 18:29 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 14:57 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **1.78** | | **0.500** | **1.00** | **mg/L** | 1 | 29-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: HB |
| **Total Dissolved Solids (Residue, Filterable)** | **808** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 17:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **17.0** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 23:42 |
| **Alkalinity, Carbonate (As CaCO3)** | **179** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 23:42 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **1.68** | J | **0.920** | **5.00** | **mg/L** | 1 | 29-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **10.6** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 13:00 |
| **Temp Deg C @pH** | **21.8** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 13:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0921** | J | **0.0300** | **0.100** | **mg/L** | 1 | 27-Oct-2025 20:24 |
| **Chloride** | **38.3** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 20:24 |
| **Sulfate** | **1.31** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 20:24 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP-01
Collection Date: 23-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-16
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 03:52 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 03:52 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 03:52 |
| **o-Xylene** | **0.0018** | J | **0.00031** | **0.0020** | **mg/L** | 1 | 29-Oct-2025 03:52 |
| **Toluene** | **0.00047** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 29-Oct-2025 03:52 |
| **Xylenes, Total** | **0.0018** | J | **0.00092** | **0.0060** | **mg/L** | 1 | 29-Oct-2025 03:52 |
| *Surr: 1,2-Dichloroethane-d4* | *97.0* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 03:52* |
| *Surr: 4-Bromofluorobenzene* | *113* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 03:52* |
| *Surr: Dibromofluoromethane* | *96.9* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 03:52* |
| *Surr: Toluene-d8* | *98.5* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 03:52* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 09:24 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 09:24 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 09:24 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *91.2* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 09:24* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *92.4* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 09:24* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:42 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:42 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:42 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:14 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:14 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:14 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:14 |
| *Surr: 1-Chlorooctadecane* | *57.0* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 12:42* |
| *Surr: 2-Bromonaphthalene* | *91.4* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 12:14* |
| *Surr: 2-Fluorobiphenyl* | *89.0* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 12:14* |
| *Surr: o-Terphenyl* | *67.5* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 12:14* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP-01
Collection Date: 23-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-16
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.00128** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| **Barium** | **0.121** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| **Calcium** | **9.54** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:37 |
| **Iron** | **1.91** | | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 13:37 |
| **Magnesium** | **1.52** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| **Manganese** | **0.0494** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:37 |
| **Potassium** | **64.9** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| **Sodium** | **80.6** | | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| **Strontium** | **0.616** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:37 |
| **Zinc** | **0.00928** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 13:37 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 15:02 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: HB |
| **Total Dissolved Solids (Residue, Filterable)** | **258** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 17:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **10.6** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:42 |
| **Alkalinity, Carbonate (As CaCO3)** | **188** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:42 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **10.6** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.9** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0916** | J | **0.0300** | **0.100** | **mg/L** | 1 | 27-Oct-2025 20:00 |
| **Chloride** | **38.8** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 20:00 |
| **Sulfate** | **1.34** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 20:00 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 23-Oct-2025 12:15

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-17
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 04:13 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 04:13 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 04:13 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 04:13 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 04:13 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 04:13 |
| *Surr: 1,2-Dichloroethane-d4* | *94.5* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 04:13* |
| *Surr: 4-Bromofluorobenzene* | *110* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 04:13* |
| *Surr: Dibromofluoromethane* | *97.6* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 04:13* |
| *Surr: Toluene-d8* | *96.6* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 04:13* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 11:21 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 11:21 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 11:21 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *94.0* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 11:21* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *94.0* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 11:21* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:11 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:11 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:11 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:42 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:42 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:42 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 12:42 |
| *Surr: 1-Chlorooctadecane* | *73.8* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 13:11* |
| *Surr: 2-Bromonaphthalene* | *88.0* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 12:42* |
| *Surr: 2-Fluorobiphenyl* | *89.1* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 12:42* |
| *Surr: o-Terphenyl* | *82.1* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 12:42* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 23-Oct-2025 12:15

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-17
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| **Arsenic** | **0.00768** | | **0.000510** | **0.00200** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| **Barium** | **0.271** | | **0.000750** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| **Calcium** | **18.8** | | **0.120** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:39 |
| **Iron** | **0.157** | J | **0.0600** | **0.200** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 13:39 |
| **Magnesium** | **10.3** | | **0.0408** | **0.200** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| **Manganese** | **0.0445** | | **0.00190** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:39 |
| **Potassium** | **2.35** | | **0.0869** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| **Sodium** | **106** | | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| **Strontium** | **0.287** | | **0.000300** | **0.00500** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:39 |
| **Zinc** | **0.00392** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 13:39 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 15:03 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: HB |
| **Total Dissolved Solids (Residue, Filterable)** | **404** | | **3.00** | **10.0** | **mg/L** | 1 | 29-Oct-2025 17:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **243** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:48 |
| **Alkalinity, Carbonate (As CaCO3)** | **17.6** | | **1.20** | **5.00** | **mg/L** | 1 | 27-Oct-2025 22:48 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.65** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.9** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 20:06 |
| **Chloride** | **36.7** | | **0.200** | **0.500** | **mg/L** | 1 | 27-Oct-2025 20:06 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 27-Oct-2025 20:06 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-102325
Collection Date: 23-Oct-2025 08:20

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-18
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 23:11 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 23:11 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 23:11 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 23:11 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 23:11 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 23:11 |
| *Surr: 1,2-Dichloroethane-d4* | *88.0* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 23:11* |
| *Surr: 4-Bromofluorobenzene* | *113* | *S* | | *77-113* | *%REC* | *1* | *28-Oct-2025 23:11* |
| *Surr: Dibromofluoromethane* | *93.7* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 23:11* |
| *Surr: Toluene-d8* | *98.3* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 23:11* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 31-Oct-2025 11:59 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 31-Oct-2025 11:59 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 31-Oct-2025 11:59 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *99.6* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 11:59* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *99.6* | | | *70-130* | *%REC* | *1* | *31-Oct-2025 11:59* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 29-Oct-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:40 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:40 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:40 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:11 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:11 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:11 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 30-Oct-2025 13:11 |
| *Surr: 1-Chlorooctadecane* | *69.1* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 13:40* |
| *Surr: 2-Bromonaphthalene* | *97.6* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 13:11* |
| *Surr: 2-Fluorobiphenyl* | *97.5* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 13:11* |
| *Surr: o-Terphenyl* | *83.1* | | | *40-140* | *%REC* | *1* | *30-Oct-2025 13:11* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-102325
Collection Date: 23-Oct-2025 08:20

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-18
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 29-Oct-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 01-Nov-2025 13:41 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:41 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 01-Nov-2025 13:41 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:41 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 01-Nov-2025 13:41 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 01-Nov-2025 13:41 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 01-Nov-2025 13:41 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:41 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:41 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 01-Nov-2025 13:41 |
| **Sodium** | **0.349** | J | **0.130** | **0.500** | **mg/L** | 1 | 01-Nov-2025 13:41 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:41 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 01-Nov-2025 13:41 |
| **Zinc** | **0.00569** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 01-Nov-2025 13:41 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 28-Oct-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 28-Oct-2025 15:05 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: HB |
| Total Dissolved Solids (Residue, Filterable) | U | | 3.00 | 10.0 | mg/L | 1 | 29-Oct-2025 17:30 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 23:06 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 27-Oct-2025 23:06 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 29-Oct-2025 16:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.23** | H | **0.100** | **1.00** | **pH Units** | 1 | 29-Oct-2025 12:00 |
| **Temp Deg C @pH** | **21.9** | H | **0** | **0** | **°C** | 1 | 29-Oct-2025 12:00 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 27-Oct-2025 20:12 |
| Chloride | U | | 0.200 | 0.500 | mg/L | 1 | 27-Oct-2025 20:12 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 27-Oct-2025 20:12 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-384
Collection Date: 23-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-19
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 23:32 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 23:32 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 23:32 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 23:32 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 23:32 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 23:32 |
| *Surr: 1,2-Dichloroethane-d4* | *93.8* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 23:32* |
| *Surr: 4-Bromofluorobenzene* | *111* | | | *77-113* | *%REC* | *1* | *28-Oct-2025 23:32* |
| *Surr: Dibromofluoromethane* | *95.0* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 23:32* |
| *Surr: Toluene-d8* | *103* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 23:32* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-373
Collection Date: 23-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-20
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 28-Oct-2025 23:54 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 23:54 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 28-Oct-2025 23:54 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 28-Oct-2025 23:54 |
| Toluene | U | | 0.00033 | 0.0020 | mg/L | 1 | 28-Oct-2025 23:54 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 28-Oct-2025 23:54 |
| *Surr: 1,2-Dichloroethane-d4* | *95.1* | | | *70-126* | *%REC* | *1* | *28-Oct-2025 23:54* |
| *Surr: 4-Bromofluorobenzene* | *113* | *S* | | *77-113* | *%REC* | *1* | *28-Oct-2025 23:54* |
| *Surr: Dibromofluoromethane* | *95.9* | | | *77-123* | *%REC* | *1* | *28-Oct-2025 23:54* |
| *Surr: Toluene-d8* | *99.0* | | | *82-127* | *%REC* | *1* | *28-Oct-2025 23:54* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-374
Collection Date: 23-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-21
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 00:15 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 00:15 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 00:15 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 00:15 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 00:15 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 00:15 |
| *Surr: 1,2-Dichloroethane-d4* | *91.7* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 00:15* |
| *Surr: 4-Bromofluorobenzene* | *111* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 00:15* |
| *Surr: Dibromofluoromethane* | *94.8* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 00:15* |
| *Surr: Toluene-d8* | *101* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 00:15* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-382
Collection Date: 23-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-22
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 00:37 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 00:37 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 00:37 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 00:37 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 00:37 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 00:37 |
| *Surr: 1,2-Dichloroethane-d4* | *95.8* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 00:37* |
| *Surr: 4-Bromofluorobenzene* | *110* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 00:37* |
| *Surr: Dibromofluoromethane* | *97.7* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 00:37* |
| *Surr: Toluene-d8* | *99.6* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 00:37* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-386
Collection Date: 23-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-23
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 00:59 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 00:59 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 00:59 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 00:59 |
| Toluene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 00:59 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 00:59 |
| *Surr: 1,2-Dichloroethane-d4* | *94.0* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 00:59* |
| *Surr: 4-Bromofluorobenzene* | *114* | *S* | | *77-113* | *%REC* | *1* | *29-Oct-2025 00:59* |
| *Surr: Dibromofluoromethane* | *98.2* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 00:59* |
| *Surr: Toluene-d8* | *97.6* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 00:59* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-371
Collection Date: 23-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-24
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 01:20 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 01:20 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 01:20 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 01:20 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 01:20 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 01:20 |
| *Surr: 1,2-Dichloroethane-d4* | *91.9* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 01:20* |
| *Surr: 4-Bromofluorobenzene* | *113* | | | *77-113* | *%REC* | *1* | *29-Oct-2025 01:20* |
| *Surr: Dibromofluoromethane* | *98.5* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 01:20* |
| *Surr: Toluene-d8* | *96.1* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 01:20* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-375
Collection Date: 23-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101288
Lab ID:HS25101288-25
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 29-Oct-2025 01:42 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 01:42 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 29-Oct-2025 01:42 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 29-Oct-2025 01:42 |
| Toluene | U | | 0.00033 | 0.0020 | mg/L | 1 | 29-Oct-2025 01:42 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 29-Oct-2025 01:42 |
| *Surr: 1,2-Dichloroethane-d4* | *90.7* | | | *70-126* | *%REC* | *1* | *29-Oct-2025 01:42* |
| *Surr: 4-Bromofluorobenzene* | *113* | *S* | | *77-113* | *%REC* | *1* | *29-Oct-2025 01:42* |
| *Surr: Dibromofluoromethane* | *97.6* | | | *77-123* | *%REC* | *1* | *29-Oct-2025 01:42* |
| *Surr: Toluene-d8* | *98.9* | | | *82-127* | *%REC* | *1* | *29-Oct-2025 01:42* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**Batch ID:** 234794 **Start Date:** 28 Oct 2025 07:00 **End Date:** 28 Oct 2025 07:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101288-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 234795 **Start Date:** 28 Oct 2025 07:00 **End Date:** 28 Oct 2025 07:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101288-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-12 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-13 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-14 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-15 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-16 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-17 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-18 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 234857 **Start Date:** 29 Oct 2025 07:29 **End Date:** 29 Oct 2025 07:29
**Method:** MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101288-01 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-02 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-03 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-04 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-05 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-06 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-07 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-08 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-09 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-10 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-11 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-12 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-13 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-14 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-15 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-16 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-17 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101288-18 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**Batch ID:** 234880 **Start Date:** 29 Oct 2025 09:00 **End Date:** 29 Oct 2025 09:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101288-15 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 234882 **Start Date:** 29 Oct 2025 09:00 **End Date:** 29 Oct 2025 09:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101288-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-12 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-13 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-14 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-16 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-17 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101288-18 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 234794 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | 28 Oct 2025 07:00 | 28 Oct 2025 13:50 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | 28 Oct 2025 07:00 | 28 Oct 2025 13:52 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | 28 Oct 2025 07:00 | 28 Oct 2025 13:53 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | 28 Oct 2025 07:00 | 28 Oct 2025 13:55 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | 28 Oct 2025 07:00 | 28 Oct 2025 13:57 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | 28 Oct 2025 07:00 | 28 Oct 2025 13:58 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | 28 Oct 2025 07:00 | 28 Oct 2025 14:00 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | 28 Oct 2025 07:00 | 28 Oct 2025 14:11 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | 28 Oct 2025 07:00 | 28 Oct 2025 14:12 | 1 |
| **Batch ID:** 234795 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | 28 Oct 2025 07:00 | 28 Oct 2025 14:33 | 1 |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | 28 Oct 2025 07:00 | 28 Oct 2025 14:35 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | 28 Oct 2025 07:00 | 28 Oct 2025 14:37 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | 28 Oct 2025 07:00 | 28 Oct 2025 14:38 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | 28 Oct 2025 07:00 | 28 Oct 2025 14:40 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | 28 Oct 2025 07:00 | 28 Oct 2025 14:57 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | 28 Oct 2025 07:00 | 28 Oct 2025 15:02 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | 28 Oct 2025 07:00 | 28 Oct 2025 15:03 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | 28 Oct 2025 07:00 | 28 Oct 2025 15:05 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 234857 ( 0 ) | **Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019 | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | 29 Oct 2025 07:29 | 29 Oct 2025 15:16 | 1 |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | 29 Oct 2025 07:29 | 29 Oct 2025 15:16 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | 29 Oct 2025 07:29 | 29 Oct 2025 18:09 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | 29 Oct 2025 07:29 | 29 Oct 2025 18:09 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | 29 Oct 2025 07:29 | 29 Oct 2025 18:37 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | 29 Oct 2025 07:29 | 29 Oct 2025 18:37 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | 29 Oct 2025 07:29 | 29 Oct 2025 19:06 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | 29 Oct 2025 07:29 | 29 Oct 2025 19:06 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | 29 Oct 2025 07:29 | 29 Oct 2025 20:33 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | 29 Oct 2025 07:29 | 29 Oct 2025 20:33 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | 29 Oct 2025 07:29 | 29 Oct 2025 21:02 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | 29 Oct 2025 07:29 | 29 Oct 2025 21:02 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | 29 Oct 2025 07:29 | 29 Oct 2025 13:49 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | 29 Oct 2025 07:29 | 29 Oct 2025 13:49 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | 29 Oct 2025 07:29 | 29 Oct 2025 21:31 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | 29 Oct 2025 07:29 | 29 Oct 2025 21:31 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | 29 Oct 2025 07:29 | 29 Oct 2025 21:59 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | 29 Oct 2025 07:29 | 29 Oct 2025 21:59 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | 29 Oct 2025 07:29 | 29 Oct 2025 22:28 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | 29 Oct 2025 07:29 | 29 Oct 2025 22:28 | 1 |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | 29 Oct 2025 07:29 | 29 Oct 2025 22:57 | 1 |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | 29 Oct 2025 07:29 | 29 Oct 2025 22:57 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | 29 Oct 2025 07:29 | 30 Oct 2025 11:16 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | 29 Oct 2025 07:29 | 30 Oct 2025 10:47 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | 29 Oct 2025 07:29 | 30 Oct 2025 11:45 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | 29 Oct 2025 07:29 | 30 Oct 2025 11:16 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | 29 Oct 2025 07:29 | 30 Oct 2025 12:14 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | 29 Oct 2025 07:29 | 30 Oct 2025 11:45 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | 29 Oct 2025 07:29 | 29 Oct 2025 16:42 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | 29 Oct 2025 07:29 | 29 Oct 2025 16:42 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | 29 Oct 2025 07:29 | 30 Oct 2025 12:42 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | 29 Oct 2025 07:29 | 30 Oct 2025 12:14 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | 29 Oct 2025 07:29 | 30 Oct 2025 13:11 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | 29 Oct 2025 07:29 | 30 Oct 2025 12:42 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | 29 Oct 2025 07:29 | 30 Oct 2025 13:40 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | 29 Oct 2025 07:29 | 30 Oct 2025 13:11 | 1 |
| **Batch ID:** 234880 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | 29 Oct 2025 09:00 | 30 Oct 2025 18:29 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 234882 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | 29 Oct 2025 09:00 | 01 Nov 2025 13:52 | 20 |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | 29 Oct 2025 09:00 | 01 Nov 2025 10:44 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | 29 Oct 2025 09:00 | 01 Nov 2025 10:52 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | 29 Oct 2025 09:00 | 01 Nov 2025 14:00 | 20 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | 29 Oct 2025 09:00 | 01 Nov 2025 10:54 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | 29 Oct 2025 09:00 | 01 Nov 2025 10:57 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | 29 Oct 2025 09:00 | 01 Nov 2025 14:02 | 20 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | 29 Oct 2025 09:00 | 01 Nov 2025 10:59 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | 29 Oct 2025 09:00 | 01 Nov 2025 14:04 | 20 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | 29 Oct 2025 09:00 | 01 Nov 2025 11:01 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | 29 Oct 2025 09:00 | 01 Nov 2025 13:54 | 20 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | 29 Oct 2025 09:00 | 01 Nov 2025 10:36 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | 29 Oct 2025 09:00 | 01 Nov 2025 11:03 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | 29 Oct 2025 09:00 | 01 Nov 2025 11:05 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | 29 Oct 2025 09:00 | 01 Nov 2025 14:06 | 20 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | 29 Oct 2025 09:00 | 01 Nov 2025 11:07 | 1 |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | 29 Oct 2025 09:00 | 01 Nov 2025 11:09 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | 29 Oct 2025 09:00 | 01 Nov 2025 13:33 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | 29 Oct 2025 09:00 | 01 Nov 2025 13:50 | 5000 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | 29 Oct 2025 09:00 | 01 Nov 2025 13:23 | 50 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | 29 Oct 2025 09:00 | 01 Nov 2025 13:35 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | 29 Oct 2025 09:00 | 01 Nov 2025 13:37 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | 29 Oct 2025 09:00 | 01 Nov 2025 13:39 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | 29 Oct 2025 09:00 | 01 Nov 2025 13:41 | 1 |
| **Batch ID:** R525035 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 27 Oct 2025 16:30 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525036 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 27 Oct 2025 16:00 | 5 |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 27 Oct 2025 15:42 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | | 27 Oct 2025 15:48 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 27 Oct 2025 16:05 | 5 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 27 Oct 2025 15:54 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 27 Oct 2025 17:22 | 10 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 27 Oct 2025 17:04 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 27 Oct 2025 17:28 | 10 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 27 Oct 2025 17:10 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 27 Oct 2025 18:56 | 10 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 27 Oct 2025 18:21 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 27 Oct 2025 17:34 | 10 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 27 Oct 2025 17:16 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 27 Oct 2025 19:02 | 10 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 27 Oct 2025 18:26 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 27 Oct 2025 19:08 | 10 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 27 Oct 2025 18:32 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 27 Oct 2025 19:13 | 20 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 27 Oct 2025 18:38 | 1 |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | | 27 Oct 2025 18:44 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | | 27 Oct 2025 18:50 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 27 Oct 2025 20:18 | 1000 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 27 Oct 2025 19:49 | 50 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | | 27 Oct 2025 19:55 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | | 27 Oct 2025 20:24 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | | 27 Oct 2025 20:00 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | | 27 Oct 2025 20:06 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | | 27 Oct 2025 20:12 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome **DATES REPORT**
**WorkOrder:** HS25101288

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525045 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 28 Oct 2025 15:37 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | | 28 Oct 2025 15:58 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 28 Oct 2025 16:20 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 28 Oct 2025 16:41 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 28 Oct 2025 17:03 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 28 Oct 2025 17:25 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 28 Oct 2025 17:46 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 28 Oct 2025 18:08 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 28 Oct 2025 18:29 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 28 Oct 2025 18:51 | 1 |
| **Batch ID:** R525060 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 27 Oct 2025 16:30 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 27 Oct 2025 16:30 | 1 |
| **Batch ID:** R525139 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | | 29 Oct 2025 02:04 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | | 29 Oct 2025 02:25 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 29 Oct 2025 02:47 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | | 29 Oct 2025 03:08 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | | 29 Oct 2025 03:30 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | | 29 Oct 2025 03:52 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | | 29 Oct 2025 04:13 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | | 28 Oct 2025 23:11 | 1 |
| HS25101288-19 | CG-100125-384 | 23 Oct 2025 00:00 | | | 28 Oct 2025 23:32 | 1 |
| HS25101288-20 | CG-100125-373 | 23 Oct 2025 00:00 | | | 28 Oct 2025 23:54 | 1 |
| HS25101288-21 | CG-100125-374 | 23 Oct 2025 00:00 | | | 29 Oct 2025 00:15 | 1 |
| HS25101288-22 | CG-100125-382 | 23 Oct 2025 00:00 | | | 29 Oct 2025 00:37 | 1 |
| HS25101288-23 | CG-100125-386 | 23 Oct 2025 00:00 | | | 29 Oct 2025 00:59 | 1 |
| HS25101288-24 | CG-100125-371 | 23 Oct 2025 00:00 | | | 29 Oct 2025 01:20 | 1 |
| HS25101288-25 | CG-100125-375 | 23 Oct 2025 00:00 | | | 29 Oct 2025 01:42 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525148 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 27 Oct 2025 21:07 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | | 27 Oct 2025 21:13 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 27 Oct 2025 21:18 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 27 Oct 2025 21:24 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 27 Oct 2025 21:29 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 27 Oct 2025 21:35 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 27 Oct 2025 21:59 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 27 Oct 2025 21:40 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 27 Oct 2025 22:10 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 27 Oct 2025 22:15 | 1 |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | | 27 Oct 2025 22:21 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | | 27 Oct 2025 22:26 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 27 Oct 2025 22:32 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | | 27 Oct 2025 22:37 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | | 27 Oct 2025 22:42 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | | 27 Oct 2025 22:48 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | | 27 Oct 2025 23:06 | 1 |
| **Batch ID:** R525149 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | | 27 Oct 2025 23:42 | 1 |
| **Batch ID:** R525160 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | | 29 Oct 2025 12:00 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | | 29 Oct 2025 12:00 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525162 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | | 29 Oct 2025 13:00 | 1 |
| **Batch ID:** R525183 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 28 Oct 2025 17:00 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 28 Oct 2025 17:00 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 28 Oct 2025 17:00 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 28 Oct 2025 17:00 | 1 |
| **Batch ID:** R525193 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 29 Oct 2025 08:30 | 1 |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | | 29 Oct 2025 08:30 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 29 Oct 2025 08:30 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 29 Oct 2025 08:30 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 29 Oct 2025 08:30 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 29 Oct 2025 08:30 | 1 |
| **Batch ID:** R525234 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** Water | |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | | 29 Oct 2025 16:30 | 1 |
| **Batch ID:** R525235 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** Water | |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | | 29 Oct 2025 16:30 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | | 29 Oct 2025 16:30 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525278 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | | 29 Oct 2025 17:30 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | | 29 Oct 2025 17:30 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 29 Oct 2025 17:30 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | | 29 Oct 2025 17:30 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | | 29 Oct 2025 17:30 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | | 29 Oct 2025 17:30 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | | 29 Oct 2025 17:30 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | | 29 Oct 2025 17:30 | 1 |
| **Batch ID:** R525349 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 30 Oct 2025 13:58 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 30 Oct 2025 14:37 | 1 |
| **Batch ID:** R525350 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101288-01 | MW-1-700 | 22 Oct 2025 10:20 | | | 30 Oct 2025 13:58 | 1 |
| HS25101288-07 | LDNR-5 | 22 Oct 2025 10:45 | | | 30 Oct 2025 14:37 | 1 |
| **Batch ID:** R525356 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | | 31 Oct 2025 00:58 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 31 Oct 2025 01:37 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 31 Oct 2025 12:39 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 31 Oct 2025 03:34 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 31 Oct 2025 04:13 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 31 Oct 2025 04:51 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 31 Oct 2025 05:31 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 31 Oct 2025 06:10 | 1 |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | | 31 Oct 2025 06:49 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | | 31 Oct 2025 07:27 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 31 Oct 2025 08:06 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | | 31 Oct 2025 08:45 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | | 31 Oct 2025 13:17 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | | 31 Oct 2025 09:24 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | | 31 Oct 2025 11:21 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | | 31 Oct 2025 11:59 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525359 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101288-02 | MW-1-500 | 22 Oct 2025 12:30 | | | 31 Oct 2025 00:58 | 1 |
| HS25101288-03 | MW-2-700 | 22 Oct 2025 15:20 | | | 31 Oct 2025 01:37 | 1 |
| HS25101288-04 | LDNR-17 | 22 Oct 2025 10:20 | | | 31 Oct 2025 12:39 | 1 |
| HS25101288-05 | LDNR-18 | 22 Oct 2025 10:00 | | | 31 Oct 2025 03:34 | 1 |
| HS25101288-06 | LDNR-21 | 22 Oct 2025 09:00 | | | 31 Oct 2025 04:13 | 1 |
| HS25101288-08 | LDNR-09 | 22 Oct 2025 14:30 | | | 31 Oct 2025 04:51 | 1 |
| HS25101288-09 | GW-DUP-02 | 22 Oct 2025 00:00 | | | 31 Oct 2025 05:31 | 1 |
| HS25101288-10 | LDNR-01 | 22 Oct 2025 15:30 | | | 31 Oct 2025 06:10 | 1 |
| HS25101288-11 | 019-1603 | 23 Oct 2025 07:30 | | | 31 Oct 2025 06:49 | 1 |
| HS25101288-12 | Cottages | 23 Oct 2025 08:00 | | | 31 Oct 2025 07:27 | 1 |
| HS25101288-13 | PPG-07B | 23 Oct 2025 08:40 | | | 31 Oct 2025 08:06 | 1 |
| HS25101288-14 | MW-2-200 | 23 Oct 2025 08:30 | | | 31 Oct 2025 08:45 | 1 |
| HS25101288-15 | MW-2-500 | 23 Oct 2025 09:50 | | | 31 Oct 2025 13:17 | 1 |
| HS25101288-16 | GW-DUP-01 | 23 Oct 2025 00:00 | | | 31 Oct 2025 09:24 | 1 |
| HS25101288-17 | MW-1-200 | 23 Oct 2025 12:15 | | | 31 Oct 2025 11:21 | 1 |
| HS25101288-18 | FB-102325 | 23 Oct 2025 08:20 | | | 31 Oct 2025 11:59 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234857 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MBLK** Sample ID: **MBLK-234857** Units: **mg/L** Analysis Date: **29-Oct-2025 13:20**
Client ID: Run ID: **FID23_525389** SeqNo: **9115720** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aliphatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aliphatics >C16 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02555* | *0* | *0.04* | *0* | *63.9* | *40 - 140* | | | | |

**MBLK** Sample ID: **MBLK-234857** Units: **mg/L** Analysis Date: **29-Oct-2025 13:20**
Client ID: Run ID: **FID-22_525390** SeqNo: **9115888** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aromatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aromatics >C16 - C21 | U | 0.100 | | | | | | | | |
| Aromatics >C21 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 2-Bromonaphthalene* | *0.04026* | *0* | *0.04* | *0* | *101* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03971* | *0* | *0.04* | *0* | *99.3* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03403* | *0* | *0.04* | *0* | *85.1* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-234857** Units: **mg/L** Analysis Date: **29-Oct-2025 12:52**
Client ID: Run ID: **FID23_525389** SeqNo: **9115719** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04265 | 0.100 | 0.05 | 0 | 85.3 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.09119 | 0.100 | 0.1 | 0 | 91.2 | 40 - 140 | | | | J |
| Aliphatics >C16 - C35 | 0.374 | 0.100 | 0.4 | 0 | 93.5 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.03247* | *0* | *0.04* | *0* | *81.2* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234857 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**LCS** Sample ID: **LCS-234857** Units: **mg/L** Analysis Date: **29-Oct-2025 12:52**
Client ID: Run ID: **FID-22_525390** SeqNo: **9115887** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.05816 | 0.100 | 0.05 | 0 | 116 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1651 | 0.100 | 0.2 | 0 | 82.5 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1372 | 0.100 | 0.15 | 0 | 91.4 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.4205 | 0.100 | 0.45 | 0 | 93.5 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.04038* | *0* | *0.04* | *0* | *101* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03923* | *0* | *0.04* | *0* | *98.1* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03638* | *0* | *0.04* | *0* | *90.9* | *40 - 140* | | | | |

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **29-Oct-2025 17:11**
Client ID: **MW-2-500** Run ID: **FID23_525389** SeqNo: **9115727** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04447 | 0.100 | 0.05 | 0 | 88.9 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.09571 | 0.100 | 0.1 | 0 | 95.7 | 40 - 140 | | | | J |
| Aliphatics >C16 - C35 | 0.3768 | 0.100 | 0.4 | 0 | 94.2 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.03031* | *0* | *0.04* | *0* | *75.8* | *40 - 140* | | | | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **29-Oct-2025 14:18**
Client ID: **LDNR-5** Run ID: **FID23_525389** SeqNo: **9115722** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.03911 | 0.100 | 0.05 | 0 | 78.2 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.08281 | 0.100 | 0.1 | 0 | 82.8 | 40 - 140 | | | | J |
| Aliphatics >C16 - C35 | 0.3339 | 0.100 | 0.4 | 0 | 83.5 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02659* | *0* | *0.04* | *0* | *66.5* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234857 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **29-Oct-2025 17:11**
Client ID: **MW-2-500** Run ID: **FID-22_525390** SeqNo: **9115895** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04947 | 0.100 | 0.05 | 0 | 98.9 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1577 | 0.100 | 0.2 | 0 | 78.8 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1331 | 0.100 | 0.15 | 0 | 88.7 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.4048 | 0.100 | 0.45 | 0 | 90.0 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03746* | *0* | *0.04* | *0* | *93.7* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03637* | *0* | *0.04* | *0* | *90.9* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03291* | *0* | *0.04* | *0* | *82.3* | *40 - 140* | | | | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **29-Oct-2025 14:18**
Client ID: **LDNR-5** Run ID: **FID-22_525390** SeqNo: **9115890** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04949 | 0.100 | 0.05 | 0 | 99.0 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1363 | 0.100 | 0.2 | 0 | 68.1 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.115 | 0.100 | 0.15 | 0 | 76.6 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.3571 | 0.100 | 0.45 | 0 | 79.4 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03445* | *0* | *0.04* | *0* | *86.1* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03607* | *0* | *0.04* | *0* | *90.2* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.02688* | *0* | *0.04* | *0* | *67.2* | *40 - 140* | | | | |

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **29-Oct-2025 17:40**
Client ID: **MW-2-500** Run ID: **FID23_525389** SeqNo: **9115728** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04103 | 0.100 | 0.05 | 0 | 82.1 | 40 - 140 | 0.04447 | 0 | 50 | J |
| Aliphatics >C12 - C16 | 0.08632 | 0.100 | 0.1 | 0 | 86.3 | 40 - 140 | 0.09571 | 0 | 50 | J |
| Aliphatics >C16 - C35 | 0.3366 | 0.100 | 0.4 | 0 | 84.1 | 40 - 140 | 0.3768 | 11.3 | 50 | |
| *Surr: 1-Chlorooctadecane* | *0.02492* | *0* | *0.04* | *0* | *62.3* | *40 - 140* | *0.03031* | *19.5* | *50* | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234857 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **29-Oct-2025 14:47**
Client ID: **LDNR-5** Run ID: **FID23_525389** SeqNo: **9115723** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04499 | 0.100 | 0.05 | 0 | 90.0 | 40 - 140 | 0.03911 | 0 | 50 | J |
| Aliphatics >C12 - C16 | 0.09503 | 0.100 | 0.1 | 0 | 95.0 | 40 - 140 | 0.08281 | 0 | 50 | J |
| Aliphatics >C16 - C35 | 0.3754 | 0.100 | 0.4 | 0 | 93.8 | 40 - 140 | 0.3339 | 11.7 | 50 | |
| *Surr: 1-Chlorooctadecane* | *0.0299* | *0* | *0.04* | *0* | *74.8* | *40 - 140* | *0.02659* | *11.7* | *50* | |

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **29-Oct-2025 17:40**
Client ID: **MW-2-500** Run ID: **FID-22_525390** SeqNo: **9115896** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04203 | 0.100 | 0.05 | 0 | 84.1 | 40 - 140 | 0.04947 | 0 | 50 | J |
| Aromatics >C12 - C16 | 0.162 | 0.100 | 0.2 | 0 | 81.0 | 40 - 140 | 0.1577 | 2.68 | 50 | |
| Aromatics >C16 - C21 | 0.134 | 0.100 | 0.15 | 0 | 89.3 | 40 - 140 | 0.1331 | 0.656 | 50 | |
| Aromatics >C21 - C35 | 0.4043 | 0.100 | 0.45 | 0 | 89.8 | 40 - 140 | 0.4048 | 0.137 | 50 | |
| *Surr: 2-Bromonaphthalene* | *0.03707* | *0* | *0.04* | *0* | *92.7* | *40 - 140* | *0.03746* | *1.04* | *50* | |
| *Surr: 2-Fluorobiphenyl* | *0.03588* | *0* | *0.04* | *0* | *89.7* | *40 - 140* | *0.03637* | *1.36* | *50* | |
| *Surr: o-Terphenyl* | *0.0323* | *0* | *0.04* | *0* | *80.8* | *40 - 140* | *0.03291* | *1.87* | *50* | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **29-Oct-2025 14:47**
Client ID: **LDNR-5** Run ID: **FID-22_525390** SeqNo: **9115891** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.05745 | 0.100 | 0.05 | 0 | 115 | 40 - 140 | 0.04949 | 0 | 50 | J |
| Aromatics >C12 - C16 | 0.1718 | 0.100 | 0.2 | 0 | 85.9 | 40 - 140 | 0.1363 | 23.1 | 50 | |
| Aromatics >C16 - C21 | 0.1413 | 0.100 | 0.15 | 0 | 94.2 | 40 - 140 | 0.115 | 20.6 | 50 | |
| Aromatics >C21 - C35 | 0.4273 | 0.100 | 0.45 | 0 | 94.9 | 40 - 140 | 0.3571 | 17.9 | 50 | |
| *Surr: 2-Bromonaphthalene* | *0.04223* | *0* | *0.04* | *0* | *106* | *40 - 140* | *0.03445* | *20.3* | *50* | |
| *Surr: 2-Fluorobiphenyl* | *0.04077* | *0* | *0.04* | *0* | *102* | *40 - 140* | *0.03607* | *12.2* | *50* | |
| *Surr: o-Terphenyl* | *0.03369* | *0* | *0.04* | *0* | *84.2* | *40 - 140* | *0.02688* | *22.5* | *50* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-01 | HS25101288-02 | HS25101288-03 | HS25101288-04 |
| HS25101288-05 | HS25101288-06 | HS25101288-07 | HS25101288-08 |
| HS25101288-09 | HS25101288-10 | HS25101288-11 | HS25101288-12 |
| HS25101288-13 | HS25101288-14 | HS25101288-15 | HS25101288-16 |
| HS25101288-17 | HS25101288-18 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** R525349 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 23:03**
Client ID: Run ID: **FID-14_525349** SeqNo: **9114778** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.275* | *0.0100* | *0.25* | *0* | *110* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 21:46**
Client ID: Run ID: **FID-14_525349** SeqNo: **9114780** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.028 | 0.00500 | 0.025 | 0 | 112 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.025 | 0.00500 | 0.025 | 0 | 100 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.266* | *0.0100* | *0.25* | *0* | *106* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 22:24**
Client ID: Run ID: **FID-14_525349** SeqNo: **9114777** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.028 | 0.00500 | 0.025 | 0 | 112 | 70 - 130 | 0.028 | 0 | 25 | |
| Aliphatics >C8 - C10 | 0.024 | 0.00500 | 0.025 | 0 | 96.0 | 70 - 130 | 0.025 | 4.08 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.245* | *0.0100* | *0.25* | *0* | *98.0* | *70 - 130* | *0.266* | *8.22* | *25* | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **30-Oct-2025 15:16**
Client ID: **LDNR-5** Run ID: **FID-14_525349** SeqNo: **9114791** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.0209 | 0.00500 | 0.025 | 0 | 83.6 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.235* | *0.0100* | *0.25* | *0* | *94.0* | *70 - 130* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** R525349 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **30-Oct-2025 15:55**
Client ID: **LDNR-5** Run ID: **FID-14_525349** SeqNo: **9114793** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.031 | 0.00500 | 0.025 | 0 | 124 | 70 - 130 | 0.027 | 13.8 | 25 | |
| Aliphatics >C8 - C10 | 0.0189 | 0.00500 | 0.025 | 0 | 75.6 | 70 - 130 | 0.0209 | 10.1 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.273* | *0.0100* | *0.25* | *0* | *109* | *70 - 130* | *0.235* | *15* | *25* | |

**The following samples were analyzed in this batch:** HS25101288-01 HS25101288-07



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** R525350 ( 0 ) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 23:03**
Client ID: Run ID: **FID-15_525350** SeqNo: **9114898** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.275* | *0.0100* | *0.25* | *0* | *110* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 21:46**
Client ID: Run ID: **FID-15_525350** SeqNo: **9114900** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0851 | 0.0200 | 0.075 | 0 | 113 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.266* | *0.0100* | *0.25* | *0* | *106* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251029** Units: **mg/L** Analysis Date: **29-Oct-2025 22:24**
Client ID: Run ID: **FID-15_525350** SeqNo: **9114897** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0832 | 0.0200 | 0.075 | 0 | 111 | 70 - 130 | 0.0851 | 2.26 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.245* | *0.0100* | *0.25* | *0* | *98.0* | *70 - 130* | *0.266* | *8.22* | *25* | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **30-Oct-2025 15:16**
Client ID: **LDNR-5** Run ID: **FID-15_525350** SeqNo: **9114911** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0845 | 0.0200 | 0.075 | 0 | 113 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.235* | *0.0100* | *0.25* | *0* | *94.0* | *70 - 130* | | | | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **30-Oct-2025 15:55**
Client ID: **LDNR-5** Run ID: **FID-15_525350** SeqNo: **9114913** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0742 | 0.0200 | 0.075 | 0 | 98.9 | 70 - 130 | 0.0845 | 13 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.273* | *0.0100* | *0.25* | *0* | *109* | *70 - 130* | *0.235* | *15* | *25* | |

**The following samples were analyzed in this batch:** HS25101288-01 HS25101288-07



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** R525356 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 21:05**
Client ID: Run ID: **FID-14_525356** SeqNo: **9114985** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.252* | *0.0100* | *0.25* | *0* | *101* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 19:47**
Client ID: Run ID: **FID-14_525356** SeqNo: **9114983** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.248* | *0.0100* | *0.25* | *0* | *99.2* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 20:26**
Client ID: Run ID: **FID-14_525356** SeqNo: **9114984** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.028 | 0.00500 | 0.025 | 0 | 112 | 70 - 130 | 0.027 | 3.64 | 25 | |
| Aliphatics >C8 - C10 | 0.028 | 0.00500 | 0.025 | 0 | 112 | 70 - 130 | 0.027 | 3.64 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.268* | *0.0100* | *0.25* | *0* | *107* | *70 - 130* | *0.248* | *7.75* | *25* | |

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **31-Oct-2025 13:56**
Client ID: **MW-2-500** Run ID: **FID-14_525356** SeqNo: **9117262** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.025 | 0.00500 | 0.025 | 0 | 100 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.018 | 0.00500 | 0.025 | 0 | 72.0 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.266* | *0.0100* | *0.25* | *0* | *106* | *70 - 130* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** R525356 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **31-Oct-2025 14:35**
Client ID: **MW-2-500** Run ID: **FID-14_525356** SeqNo: **9117266** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.023 | 0.00500 | 0.025 | 0 | 92.0 | 70 - 130 | 0.025 | 8.33 | 25 | |
| Aliphatics >C8 - C10 | 0.018 | 0.00500 | 0.025 | 0 | 72.0 | 70 - 130 | 0.018 | 0 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.234* | *0.0100* | *0.25* | *0* | *93.6* | *70 - 130* | *0.266* | *12.8* | *25* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-02 | HS25101288-03 | HS25101288-04 | HS25101288-05 |
| HS25101288-06 | HS25101288-08 | HS25101288-09 | HS25101288-10 |
| HS25101288-11 | HS25101288-12 | HS25101288-13 | HS25101288-14 |
| HS25101288-15 | HS25101288-16 | HS25101288-17 | HS25101288-18 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** R525359 ( 0 ) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 21:05**
Client ID: Run ID: **FID-15_525359** SeqNo: **9115012** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.255* | *0.0100* | *0.25* | *0* | *102* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 19:47**
Client ID: Run ID: **FID-15_525359** SeqNo: **9115010** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0916 | 0.0200 | 0.075 | 0 | 122 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.248* | *0.0100* | *0.25* | *0* | *99.2* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251030** Units: **mg/L** Analysis Date: **30-Oct-2025 20:26**
Client ID: Run ID: **FID-15_525359** SeqNo: **9115011** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.095 | 0.0200 | 0.075 | 0 | 127 | 70 - 130 | 0.0916 | 3.64 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.27* | *0.0100* | *0.25* | *0* | *108* | *70 - 130* | *0.248* | *8.49* | *25* | |

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **31-Oct-2025 13:56**
Client ID: **MW-2-500** Run ID: **FID-15_525359** SeqNo: **9117269** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.077 | 0.0200 | 0.075 | 0 | 103 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.265* | *0.0100* | *0.25* | *0* | *106* | *70 - 130* | | | | |

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **31-Oct-2025 14:35**
Client ID: **MW-2-500** Run ID: **FID-15_525359** SeqNo: **9117273** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0834 | 0.0200 | 0.075 | 0 | 111 | 70 - 130 | 0.077 | 7.98 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.236* | *0.0100* | *0.25* | *0* | *94.4* | *70 - 130* | *0.265* | *11.6* | *25* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-02 | HS25101288-03 | HS25101288-04 | HS25101288-05 |
| HS25101288-06 | HS25101288-08 | HS25101288-09 | HS25101288-10 |
| HS25101288-11 | HS25101288-12 | HS25101288-13 | HS25101288-14 |
| HS25101288-15 | HS25101288-16 | HS25101288-17 | HS25101288-18 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234794 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-234794** Units: **mg/L** Analysis Date: **28-Oct-2025 13:22**
Client ID: Run ID: **HG05_525055** SeqNo: **9107971** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | U | 0.000200 | | | | | | | | |

**LCS** Sample ID: **LCS-234794** Units: **mg/L** Analysis Date: **28-Oct-2025 13:23**
Client ID: Run ID: **HG05_525055** SeqNo: **9107972** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00463 | 0.000200 | 0.005 | 0 | 92.6 | 80 - 120 | | | | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **28-Oct-2025 14:16**
Client ID: **LDNR-5** Run ID: **HG05_525055** SeqNo: **9107999** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00497 | 0.000200 | 0.005 | 0.000008 | 99.2 | 75 - 125 | | | | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **28-Oct-2025 14:09**
Client ID: **LDNR-5** Run ID: **HG05_525055** SeqNo: **9107996** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00518 | 0.000200 | 0.005 | 0.000008 | 103 | 75 - 125 | 0.00497 | 4.14 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-01 | HS25101288-02 | HS25101288-03 | HS25101288-04 |
| HS25101288-05 | HS25101288-06 | HS25101288-07 | HS25101288-08 |
| HS25101288-09 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234795 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-234795** Units: **mg/L** Analysis Date: **28-Oct-2025 14:52**
Client ID: Run ID: **HG05_525055** SeqNo: **9108014** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000053 | 0.000200 | | | | | | | | J |

**LCS** Sample ID: **LCS-234795** Units: **mg/L** Analysis Date: **28-Oct-2025 14:55**
Client ID: Run ID: **HG05_525055** SeqNo: **9108015** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00531 | 0.000200 | 0.005 | 0 | 106 | 80 - 120 | | | | |

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **28-Oct-2025 14:58**
Client ID: **MW-2-500** Run ID: **HG05_525055** SeqNo: **9108017** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00523 | 0.000200 | 0.005 | 0.000002 | 105 | 75 - 125 | | | | |

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **28-Oct-2025 15:00**
Client ID: **MW-2-500** Run ID: **HG05_525055** SeqNo: **9108018** PrepDate: **28-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00469 | 0.000200 | 0.005 | 0.000002 | 93.8 | 75 - 125 | 0.00523 | 10.9 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-10 | HS25101288-11 | HS25101288-12 | HS25101288-13 |
| HS25101288-14 | HS25101288-15 | HS25101288-16 | HS25101288-17 |
| HS25101288-18 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234880 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-234880** Units: **mg/L** Analysis Date: **30-Oct-2025 18:24**
Client ID: Run ID: **ICPMS07_525232** SeqNo: **9113976** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | | |
| Barium | U | 0.00500 | | | | | | | | |
| Calcium | U | 0.500 | | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | | |
| Iron | U | 0.200 | | | | | | | | |
| Lead | U | 0.00200 | | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | | |
| Potassium | U | 0.500 | | | | | | | | |
| Sodium | U | 0.500 | | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | | |

**LCS** Sample ID: **LCS-234880** Units: **mg/L** Analysis Date: **30-Oct-2025 18:26**
Client ID: Run ID: **ICPMS07_525232** SeqNo: **9113977** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05189 | 0.00200 | 0.05 | 0 | 104 | 80 - 120 | | | | |
| Barium | 0.04833 | 0.00500 | 0.05 | 0 | 96.7 | 80 - 120 | | | | |
| Calcium | 5.177 | 0.500 | 5 | 0 | 104 | 80 - 120 | | | | |
| Chromium | 0.04966 | 0.00500 | 0.05 | 0 | 99.3 | 80 - 120 | | | | |
| Iron | 5.061 | 0.200 | 5 | 0 | 101 | 80 - 120 | | | | |
| Lead | 0.05149 | 0.00200 | 0.05 | 0 | 103 | 80 - 120 | | | | |
| Magnesium | 5.114 | 0.200 | 5 | 0 | 102 | 80 - 120 | | | | |
| Manganese | 0.05227 | 0.00500 | 0.05 | 0 | 105 | 80 - 120 | | | | |
| Nickel | 0.05313 | 0.00500 | 0.05 | 0 | 106 | 80 - 120 | | | | |
| Potassium | 5.033 | 0.500 | 5 | 0 | 101 | 80 - 120 | | | | |
| Sodium | 5.108 | 0.500 | 5 | 0 | 102 | 80 - 120 | | | | |
| Strontium | 0.1017 | 0.00500 | 0.1 | 0 | 102 | 80 - 120 | | | | |
| Vanadium | 0.04997 | 0.00500 | 0.05 | 0 | 99.9 | 80 - 120 | | | | |
| Zinc | 0.05591 | 0.0100 | 0.05 | 0 | 112 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234880 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **30-Oct-2025 18:33**
Client ID: **MW-2-500** Run ID: **ICPMS07_525232** SeqNo: **9113980** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05124 | 0.00200 | 0.05 | 0.001027 | 100 | 80 - 120 | | | | |
| Barium | 0.162 | 0.00500 | 0.05 | 0.1116 | 101 | 80 - 120 | | | | |
| Calcium | 14.59 | 0.500 | 5 | 8.596 | 120 | 80 - 120 | | | | |
| Chromium | 0.04984 | 0.00500 | 0.05 | 0.000129 | 99.4 | 80 - 120 | | | | |
| Iron | 7.715 | 0.200 | 5 | 2.609 | 102 | 80 - 120 | | | | |
| Lead | 0.05121 | 0.00200 | 0.05 | 0.000185 | 102 | 80 - 120 | | | | |
| Magnesium | 6.587 | 0.200 | 5 | 1.312 | 105 | 80 - 120 | | | | |
| Manganese | 0.1297 | 0.00500 | 0.05 | 0.06697 | 126 | 80 - 120 | | | | S |
| Nickel | 0.05227 | 0.00500 | 0.05 | 0.001311 | 102 | 80 - 120 | | | | |
| Potassium | 58.95 | 0.500 | 5 | 50.94 | 160 | 80 - 120 | | | | SO |
| Sodium | 77.26 | 0.500 | 5 | 65.71 | 231 | 80 - 120 | | | | SO |
| Strontium | 0.6721 | 0.00500 | 0.1 | 0.5966 | 75.5 | 80 - 120 | | | | SO |
| Vanadium | 0.05019 | 0.00500 | 0.05 | 0.000618 | 99.1 | 80 - 120 | | | | |
| Zinc | 0.0593 | 0.0100 | 0.05 | 0.006357 | 106 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **30-Oct-2025 18:36**
Client ID: **MW-2-500** Run ID: **ICPMS07_525232** SeqNo: **9113981** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05227 | 0.00200 | 0.05 | 0.001027 | 102 | 80 - 120 | 0.05124 | 1.99 | 20 | |
| Barium | 0.1617 | 0.00500 | 0.05 | 0.1116 | 100 | 80 - 120 | 0.162 | 0.149 | 20 | |
| Calcium | 14.69 | 0.500 | 5 | 8.596 | 122 | 80 - 120 | 14.59 | 0.649 | 20 | S |
| Chromium | 0.05031 | 0.00500 | 0.05 | 0.000129 | 100 | 80 - 120 | 0.04984 | 0.935 | 20 | |
| Iron | 7.855 | 0.200 | 5 | 2.609 | 105 | 80 - 120 | 7.715 | 1.8 | 20 | |
| Lead | 0.05295 | 0.00200 | 0.05 | 0.000185 | 106 | 80 - 120 | 0.05121 | 3.34 | 20 | |
| Magnesium | 6.622 | 0.200 | 5 | 1.312 | 106 | 80 - 120 | 6.587 | 0.541 | 20 | |
| Manganese | 0.1329 | 0.00500 | 0.05 | 0.06697 | 132 | 80 - 120 | 0.1297 | 2.44 | 20 | S |
| Nickel | 0.05322 | 0.00500 | 0.05 | 0.001311 | 104 | 80 - 120 | 0.05227 | 1.82 | 20 | |
| Potassium | 59.6 | 0.500 | 5 | 50.94 | 173 | 80 - 120 | 58.95 | 1.1 | 20 | SO |
| Sodium | 77.77 | 0.500 | 5 | 65.71 | 241 | 80 - 120 | 77.26 | 0.654 | 20 | SO |
| Strontium | 0.6737 | 0.00500 | 0.1 | 0.5966 | 77.1 | 80 - 120 | 0.6721 | 0.241 | 20 | SO |
| Vanadium | 0.05112 | 0.00500 | 0.05 | 0.000618 | 101 | 80 - 120 | 0.05019 | 1.85 | 20 | |
| Zinc | 0.06095 | 0.0100 | 0.05 | 0.006357 | 109 | 80 - 120 | 0.0593 | 2.76 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234880 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25101288-15PDS** Units: **mg/L** Analysis Date: **30-Oct-2025 18:38**
Client ID: **MW-2-500** Run ID: **ICPMS07_525232** SeqNo: **9113982** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.1008 | 0.00200 | 0.1 | 0.001027 | 99.8 | 75 - 125 | | | | |
| Barium | 0.2122 | 0.00500 | 0.1 | 0.1116 | 101 | 75 - 125 | | | | |
| Calcium | 18.16 | 0.500 | 10 | 8.596 | 95.7 | 75 - 125 | | | | |
| Chromium | 0.09738 | 0.00500 | 0.1 | 0.000129 | 97.2 | 75 - 125 | | | | |
| Iron | 12.14 | 0.200 | 10 | 2.609 | 95.3 | 75 - 125 | | | | |
| Lead | 0.1028 | 0.00200 | 0.1 | 0.000185 | 103 | 75 - 125 | | | | |
| Magnesium | 11.25 | 0.200 | 10 | 1.312 | 99.4 | 75 - 125 | | | | |
| Manganese | 0.1716 | 0.00500 | 0.1 | 0.06697 | 105 | 75 - 125 | | | | |
| Nickel | 0.09776 | 0.00500 | 0.1 | 0.001311 | 96.5 | 75 - 125 | | | | |
| Potassium | 61.29 | 0.500 | 10 | 50.94 | 104 | 75 - 125 | | | | O |
| Sodium | 76.41 | 0.500 | 10 | 65.71 | 107 | 75 - 125 | | | | O |
| Strontium | 0.6688 | 0.00500 | 0.1 | 0.5966 | 72.2 | 75 - 125 | | | | SO |
| Vanadium | 0.09889 | 0.00500 | 0.1 | 0.000618 | 98.3 | 75 - 125 | | | | |
| Zinc | 0.1082 | 0.0100 | 0.1 | 0.006357 | 102 | 75 - 125 | | | | |

**SD** Sample ID: **HS25101288-15SD** Units: **mg/L** Analysis Date: **30-Oct-2025 18:31**
Client ID: **MW-2-500** Run ID: **ICPMS07_525232** SeqNo: **9113979** PrepDate: **29-Oct-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.0100 | | | | | 0.001027 | 0 | 10 | |
| Barium | 0.111 | 0.0250 | | | | | 0.1116 | 0.505 | 10 | |
| Calcium | 9.058 | 2.50 | | | | | 8.596 | 5.38 | 10 | |
| Chromium | U | 0.0250 | | | | | 0.000129 | 0 | 10 | |
| Lead | U | 0.0100 | | | | | 0.000185 | 0 | 10 | |
| Nickel | U | 0.0250 | | | | | 0.001311 | 0 | 10 | |
| Potassium | 54.66 | 2.50 | | | | | 50.94 | 7.31 | 10 | |
| Sodium | 71.52 | 2.50 | | | | | 65.71 | 8.84 | 10 | |
| Strontium | 0.5694 | 0.0250 | | | | | 0.5966 | 4.57 | 10 | |
| Vanadium | U | 0.0250 | | | | | 0.000618 | 0 | 10 | |
| Zinc | U | 0.0500 | | | | | 0.006357 | 0 | 10 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234880 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**SD** Sample ID: **HS25101288-15SD** Units: **mg/L** Analysis Date: **30-Oct-2025 19:56**
Client ID: **MW-2-500** Run ID: **ICPMS07_525232** SeqNo: **9114055** PrepDate: **29-Oct-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 2.695 | 1.00 | | | | | 2.609 | 3.31 | 10 | |
| Magnesium | 1.3 | 1.00 | | | | | 1.312 | 0.945 | 10 | |
| Manganese | 0.06781 | 0.0250 | | | | | 0.06697 | 1.26 | 10 | |

**The following samples were analyzed in this batch:** HS25101288-15



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234882 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-234882** Units: **mg/L** Analysis Date: **01-Nov-2025 10:28**
Client ID: Run ID: **ICPMS06_525429** SeqNo: **9116783** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | | |
| Barium | U | 0.00500 | | | | | | | | |
| Calcium | U | 0.500 | | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | | |
| Iron | U | 0.200 | | | | | | | | |
| Lead | U | 0.00200 | | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | | |
| Potassium | U | 0.500 | | | | | | | | |
| Sodium | U | 0.500 | | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | | |

**LCS** Sample ID: **LCS-234882** Units: **mg/L** Analysis Date: **01-Nov-2025 10:30**
Client ID: Run ID: **ICPMS06_525429** SeqNo: **9116784** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05177 | 0.00200 | 0.05 | 0 | 104 | 80 - 120 | | | | |
| Barium | 0.05205 | 0.00500 | 0.05 | 0 | 104 | 80 - 120 | | | | |
| Calcium | 5.351 | 0.500 | 5 | 0 | 107 | 80 - 120 | | | | |
| Chromium | 0.05224 | 0.00500 | 0.05 | 0 | 104 | 80 - 120 | | | | |
| Iron | 5.258 | 0.200 | 5 | 0 | 105 | 80 - 120 | | | | |
| Lead | 0.05006 | 0.00200 | 0.05 | 0 | 100 | 80 - 120 | | | | |
| Magnesium | 5.255 | 0.200 | 5 | 0 | 105 | 80 - 120 | | | | |
| Manganese | 0.05418 | 0.00500 | 0.05 | 0 | 108 | 80 - 120 | | | | |
| Nickel | 0.05344 | 0.00500 | 0.05 | 0 | 107 | 80 - 120 | | | | |
| Potassium | 5.157 | 0.500 | 5 | 0 | 103 | 80 - 120 | | | | |
| Sodium | 5.153 | 0.500 | 5 | 0 | 103 | 80 - 120 | | | | |
| Strontium | 0.1111 | 0.00500 | 0.1 | 0 | 111 | 80 - 120 | | | | |
| Vanadium | 0.05303 | 0.00500 | 0.05 | 0 | 106 | 80 - 120 | | | | |
| Zinc | 0.05325 | 0.0100 | 0.05 | 0 | 107 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234882 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **01-Nov-2025 10:38**
Client ID: **LDNR-5** Run ID: **ICPMS06_525429** SeqNo: **9116788** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05377 | 0.00200 | 0.05 | 0.000902 | 106 | 80 - 120 | | | | |
| Barium | 0.2827 | 0.00500 | 0.05 | 0.2365 | 92.4 | 80 - 120 | | | | O |
| Calcium | 81.77 | 0.500 | 5 | 78.37 | 68.1 | 80 - 120 | | | | SO |
| Chromium | 0.05384 | 0.00500 | 0.05 | 0.003041 | 102 | 80 - 120 | | | | |
| Iron | 5.224 | 0.200 | 5 | 0.04624 | 104 | 80 - 120 | | | | |
| Lead | 0.04969 | 0.00200 | 0.05 | 0.000032 | 99.3 | 80 - 120 | | | | |
| Magnesium | 20.12 | 0.200 | 5 | 15.52 | 91.9 | 80 - 120 | | | | |
| Manganese | 0.417 | 0.00500 | 0.05 | 0.3677 | 98.6 | 80 - 120 | | | | O |
| Nickel | 0.05224 | 0.00500 | 0.05 | 0.000633 | 103 | 80 - 120 | | | | |
| Potassium | 8.079 | 0.500 | 5 | 2.917 | 103 | 80 - 120 | | | | |
| Sodium | 181.7 | 0.500 | 5 | 180.5 | 23.8 | 80 - 120 | | | | SEO |
| Strontium | 0.6711 | 0.00500 | 0.1 | 0.5673 | 104 | 80 - 120 | | | | O |
| Vanadium | 0.05418 | 0.00500 | 0.05 | 0.001564 | 105 | 80 - 120 | | | | |
| Zinc | 0.05588 | 0.0100 | 0.05 | 0.003066 | 106 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **01-Nov-2025 10:40**
Client ID: **LDNR-5** Run ID: **ICPMS06_525429** SeqNo: **9116789** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05408 | 0.00200 | 0.05 | 0.000902 | 106 | 80 - 120 | 0.05377 | 0.577 | 20 | |
| Barium | 0.2886 | 0.00500 | 0.05 | 0.2365 | 104 | 80 - 120 | 0.2827 | 2.06 | 20 | O |
| Calcium | 82.62 | 0.500 | 5 | 78.37 | 84.9 | 80 - 120 | 81.77 | 1.02 | 20 | O |
| Chromium | 0.05348 | 0.00500 | 0.05 | 0.003041 | 101 | 80 - 120 | 0.05384 | 0.68 | 20 | |
| Iron | 5.179 | 0.200 | 5 | 0.04624 | 103 | 80 - 120 | 5.224 | 0.865 | 20 | |
| Lead | 0.05012 | 0.00200 | 0.05 | 0.000032 | 100 | 80 - 120 | 0.04969 | 0.85 | 20 | |
| Magnesium | 19.93 | 0.200 | 5 | 15.52 | 88.1 | 80 - 120 | 20.12 | 0.941 | 20 | |
| Manganese | 0.4139 | 0.00500 | 0.05 | 0.3677 | 92.2 | 80 - 120 | 0.417 | 0.767 | 20 | O |
| Nickel | 0.05178 | 0.00500 | 0.05 | 0.000633 | 102 | 80 - 120 | 0.05224 | 0.892 | 20 | |
| Potassium | 8.06 | 0.500 | 5 | 2.917 | 103 | 80 - 120 | 8.079 | 0.226 | 20 | |
| Sodium | 180.7 | 0.500 | 5 | 180.5 | 2.90 | 80 - 120 | 181.7 | 0.576 | 20 | SEO |
| Strontium | 0.6721 | 0.00500 | 0.1 | 0.5673 | 105 | 80 - 120 | 0.6711 | 0.152 | 20 | O |
| Vanadium | 0.05365 | 0.00500 | 0.05 | 0.001564 | 104 | 80 - 120 | 0.05418 | 0.985 | 20 | |
| Zinc | 0.05528 | 0.0100 | 0.05 | 0.003066 | 104 | 80 - 120 | 0.05588 | 1.07 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234882 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25101288-07PDS** Units: **mg/L** Analysis Date: **01-Nov-2025 10:42**
Client ID: **LDNR-5** Run ID: **ICPMS06_525429** SeqNo: **9116790** PrepDate: **29-Oct-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.1071 | 0.00200 | 0.1 | 0.000902 | 106 | 75 - 125 | | | | |
| Barium | 0.3458 | 0.00500 | 0.1 | 0.2365 | 109 | 75 - 125 | | | | |
| Calcium | 83.82 | 0.500 | 10 | 78.37 | 54.5 | 75 - 125 | | | | SO |
| Chromium | 0.105 | 0.00500 | 0.1 | 0.003041 | 102 | 75 - 125 | | | | |
| Iron | 10.38 | 0.200 | 10 | 0.04624 | 103 | 75 - 125 | | | | |
| Lead | 0.1025 | 0.00200 | 0.1 | 0.000032 | 102 | 75 - 125 | | | | |
| Magnesium | 24.59 | 0.200 | 10 | 15.52 | 90.7 | 75 - 125 | | | | |
| Manganese | 0.4558 | 0.00500 | 0.1 | 0.3677 | 88.0 | 75 - 125 | | | | |
| Nickel | 0.1037 | 0.00500 | 0.1 | 0.000633 | 103 | 75 - 125 | | | | |
| Potassium | 13.09 | 0.500 | 10 | 2.917 | 102 | 75 - 125 | | | | |
| Strontium | 0.6491 | 0.00500 | 0.1 | 0.5673 | 81.8 | 75 - 125 | | | | O |
| Vanadium | 0.108 | 0.00500 | 0.1 | 0.001564 | 106 | 75 - 125 | | | | |
| Zinc | 0.1103 | 0.0100 | 0.1 | 0.003066 | 107 | 75 - 125 | | | | |

**PDS** Sample ID: **HS25101288-07PDS** Units: **mg/L** Analysis Date: **01-Nov-2025 13:58**
Client ID: **LDNR-5** Run ID: **ICPMS06_525429** SeqNo: **9116961** PrepDate: **29-Oct-2025** DF: **20**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 383.7 | 10.0 | 200 | 186.9 | 98.4 | 75 - 125 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: 234882 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**SD** Sample ID: **HS25101288-07SD** Units: **mg/L** Analysis Date: **01-Nov-2025 10:32**
Client ID: **LDNR-5** Run ID: **ICPMS06_525429** SeqNo: **9116785** PrepDate: **29-Oct-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.0100 | | | | | 0.000902 | 0 | 10 | |
| Barium | 0.2375 | 0.0250 | | | | | 0.2365 | 0.402 | 10 | |
| Calcium | 79.58 | 2.50 | | | | | 78.37 | 1.55 | 10 | |
| Chromium | U | 0.0250 | | | | | 0.003041 | 0 | 10 | |
| Iron | U | 1.00 | | | | | 0.04624 | 0 | 10 | |
| Lead | U | 0.0100 | | | | | 0.000032 | 0 | 10 | |
| Magnesium | 15.54 | 1.00 | | | | | 15.52 | 0.0999 | 10 | |
| Manganese | 0.3749 | 0.0250 | | | | | 0.3677 | 1.95 | 10 | |
| Nickel | U | 0.0250 | | | | | 0.000633 | 0 | 10 | |
| Potassium | 2.974 | 2.50 | | | | | 2.917 | 1.96 | 10 | |
| Strontium | 0.582 | 0.0250 | | | | | 0.5673 | 2.59 | 10 | |
| Vanadium | U | 0.0250 | | | | | 0.001564 | 0 | 10 | |
| Zinc | U | 0.0500 | | | | | 0.003066 | 0 | 10 | |

**SD** Sample ID: **HS25101288-07SD** Units: **mg/L** Analysis Date: **01-Nov-2025 13:56**
Client ID: **LDNR-5** Run ID: **ICPMS06_525429** SeqNo: **9116960** PrepDate: **29-Oct-2025** DF: **100**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 194 | 50.0 | | | | | 186.9 | 3.81 | 10 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-01 | HS25101288-02 | HS25101288-03 | HS25101288-04 |
| HS25101288-05 | HS25101288-06 | HS25101288-07 | HS25101288-08 |
| HS25101288-09 | HS25101288-10 | HS25101288-11 | HS25101288-12 |
| HS25101288-13 | HS25101288-14 | HS25101288-16 | HS25101288-17 |
| HS25101288-18 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525045 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 11:29**
Client ID: Run ID: **VOA7_525045** SeqNo: **9107114** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.045* | *0.0010* | *0.05* | *0* | *90.9* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.056* | *0.0010* | *0.05* | *0* | *112* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.047* | *0.0010* | *0.05* | *0* | *93.8* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *99.9* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 10:24**
Client ID: Run ID: **VOA7_525045** SeqNo: **9107112** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.018 | 0.0010 | 0.02 | 0 | 87.6 | 74 - 120 | | | | |
| Ethylbenzene | 0.019 | 0.0020 | 0.02 | 0 | 96.7 | 77 - 117 | | | | |
| m,p-Xylene | 0.037 | 0.0040 | 0.04 | 0 | 91.4 | 77 - 122 | | | | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0 | 95.2 | 75 - 119 | | | | |
| Toluene | 0.019 | 0.0020 | 0.02 | 0 | 95.3 | 77 - 118 | | | | |
| Xylenes, Total | 0.056 | 0.0060 | 0.06 | 0 | 92.6 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *99.6* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.053* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.3* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *97.7* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525045 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 10:46**
Client ID: Run ID: **VOA7_525045** SeqNo: **9107113** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.017 | 0.0010 | 0.02 | 0 | 84.1 | 74 - 120 | 0.01753 | 4.11 | 20 | |
| Ethylbenzene | 0.019 | 0.0020 | 0.02 | 0 | 92.6 | 77 - 117 | 0.01935 | 4.35 | 20 | |
| m,p-Xylene | 0.035 | 0.0040 | 0.04 | 0 | 88.1 | 77 - 122 | 0.03655 | 3.66 | 20 | |
| o-Xylene | 0.018 | 0.0020 | 0.02 | 0 | 92.3 | 75 - 119 | 0.01904 | 3.05 | 20 | |
| Toluene | 0.018 | 0.0020 | 0.02 | 0 | 90.7 | 77 - 118 | 0.01906 | 4.94 | 20 | |
| Xylenes, Total | 0.054 | 0.0060 | 0.06 | 0 | 89.5 | 75 - 122 | 0.05559 | 3.45 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.049* | *0.0010* | *0.05* | *0* | *97.7* | *70 - 123* | *0.04978* | *1.9* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *103* | *77 - 113* | *0.05268* | *2.55* | *20* | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *96.7* | *73 - 126* | *0.04863* | *0.582* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.7* | *81 - 120* | *0.04886* | *0.941* | *20* | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **28-Oct-2025 19:13**
Client ID: **LDNR-5** Run ID: **VOA7_525045** SeqNo: **9109641** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.016 | 0.0010 | 0.02 | 0 | 80.4 | 70 - 127 | | | | |
| Ethylbenzene | 0.017 | 0.0020 | 0.02 | 0 | 87.1 | 70 - 124 | | | | |
| m,p-Xylene | 0.033 | 0.0040 | 0.04 | 0 | 82.5 | 70 - 130 | | | | |
| o-Xylene | 0.018 | 0.0020 | 0.02 | 0 | 89.0 | 70 - 124 | | | | |
| Toluene | 0.017 | 0.0020 | 0.02 | 0 | 84.9 | 70 - 123 | | | | |
| Xylenes, Total | 0.051 | 0.0060 | 0.06 | 0 | 84.7 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.048* | *0.0010* | *0.05* | *0* | *96.5* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.053* | *0.0010* | *0.05* | *0* | *106* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.9* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.048* | *0.0010* | *0.05* | *0* | *96.9* | *82 - 127* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525045 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **28-Oct-2025 19:34**
Client ID: **LDNR-5** Run ID: **VOA7_525045** SeqNo: **9109642** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.017 | 0.0010 | 0.02 | 0 | 82.7 | 70 - 127 | 0.01609 | 2.83 | 20 | |
| Ethylbenzene | 0.019 | 0.0020 | 0.02 | 0 | 94.6 | 70 - 124 | 0.01743 | 8.21 | 20 | |
| m,p-Xylene | 0.035 | 0.0040 | 0.04 | 0 | 86.6 | 70 - 130 | 0.03301 | 4.78 | 20 | |
| o-Xylene | 0.018 | 0.0020 | 0.02 | 0 | 91.9 | 70 - 124 | 0.01780 | 3.16 | 20 | |
| Toluene | 0.018 | 0.0020 | 0.02 | 0 | 90.4 | 70 - 123 | 0.01697 | 6.28 | 20 | |
| Xylenes, Total | 0.053 | 0.0060 | 0.06 | 0 | 88.3 | 70 - 130 | 0.05080 | 4.22 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *101* | *70 - 126* | *0.04825* | *4.48* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *103* | *77 - 113* | *0.05280* | *2.91* | *20* | |
| *Surr: Dibromofluoromethane* | *0.046* | *0.0010* | *0.05* | *0* | *92.9* | *77 - 123* | *0.04896* | *5.21* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.6* | *82 - 127* | *0.04846* | *1.69* | *20* | |

**The following samples were analyzed in this batch:** HS25101288-01 HS25101288-02 HS25101288-03 HS25101288-04 HS25101288-05 HS25101288-06 HS25101288-07 HS25101288-08 HS25101288-09 HS25101288-10



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525139 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 22:06**
Client ID: Run ID: **VOA7_525139** SeqNo: **9109643** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.047* | *0.0010* | *0.05* | *0* | *94.7* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.056* | *0.0010* | *0.05* | *0* | *111* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *95.3* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.2* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 21:01**
Client ID: Run ID: **VOA7_525139** SeqNo: **9109651** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.017 | 0.0010 | 0.02 | 0 | 86.5 | 74 - 120 | | | | |
| Ethylbenzene | 0.019 | 0.0020 | 0.02 | 0 | 92.7 | 77 - 117 | | | | |
| m,p-Xylene | 0.035 | 0.0040 | 0.04 | 0 | 88.1 | 77 - 122 | | | | |
| o-Xylene | 0.018 | 0.0020 | 0.02 | 0 | 92.4 | 75 - 119 | | | | |
| Toluene | 0.018 | 0.0020 | 0.02 | 0 | 91.9 | 77 - 118 | | | | |
| Xylenes, Total | 0.054 | 0.0060 | 0.06 | 0 | 89.5 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *99.1* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *97.0* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *97.3* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525139 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD-251028** Units: **mg/L** Analysis Date: **28-Oct-2025 21:22**
Client ID: Run ID: **VOA7_525139** SeqNo: **9109652** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.017 | 0.0010 | 0.02 | 0 | 82.6 | 74 - 120 | 0.01730 | 4.62 | 20 | |
| Ethylbenzene | 0.018 | 0.0020 | 0.02 | 0 | 91.4 | 77 - 117 | 0.01855 | 1.47 | 20 | |
| m,p-Xylene | 0.036 | 0.0040 | 0.04 | 0 | 89.1 | 77 - 122 | 0.03523 | 1.1 | 20 | |
| o-Xylene | 0.018 | 0.0020 | 0.02 | 0 | 92.1 | 75 - 119 | 0.01848 | 0.287 | 20 | |
| Toluene | 0.018 | 0.0020 | 0.02 | 0 | 89.3 | 77 - 118 | 0.01838 | 2.87 | 20 | |
| Xylenes, Total | 0.054 | 0.0060 | 0.06 | 0 | 90.1 | 75 - 122 | 0.05371 | 0.625 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.048* | *0.0010* | *0.05* | *0* | *95.5* | *70 - 123* | *0.04954* | *3.65* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | *0.05182* | *1.1* | *20* | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *95.8* | *73 - 126* | *0.04848* | *1.16* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.0* | *81 - 120* | *0.04864* | *0.76* | *20* | |

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **29-Oct-2025 05:40**
Client ID: **MW-2-500** Run ID: **VOA7_525139** SeqNo: **9109668** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.017 | 0.0010 | 0.02 | 0 | 86.1 | 70 - 127 | | | | |
| Ethylbenzene | 0.019 | 0.0020 | 0.02 | 0 | 93.8 | 70 - 124 | | | | |
| m,p-Xylene | 0.036 | 0.0040 | 0.04 | 0.0005680 | 88.0 | 70 - 130 | | | | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0.001830 | 87.3 | 70 - 124 | | | | |
| Toluene | 0.019 | 0.0020 | 0.02 | 0.0005130 | 91.3 | 70 - 123 | | | | |
| Xylenes, Total | 0.055 | 0.0060 | 0.06 | 0.001830 | 88.7 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.049* | *0.0010* | *0.05* | *0* | *97.5* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.9* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.048* | *0.0010* | *0.05* | *0* | *95.6* | *82 - 127* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525139 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **29-Oct-2025 06:01**
Client ID: **MW-2-500** Run ID: **VOA7_525139** SeqNo: **9109669** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.017 | 0.0010 | 0.02 | 0 | 83.9 | 70 - 127 | 0.01721 | 2.49 | 20 | |
| Ethylbenzene | 0.018 | 0.0020 | 0.02 | 0 | 90.9 | 70 - 124 | 0.01876 | 3.18 | 20 | |
| m,p-Xylene | 0.035 | 0.0040 | 0.04 | 0.0005680 | 86.9 | 70 - 130 | 0.03577 | 1.21 | 20 | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0.001830 | 84.9 | 70 - 124 | 0.01928 | 2.44 | 20 | |
| Toluene | 0.018 | 0.0020 | 0.02 | 0.0005130 | 88.8 | 70 - 123 | 0.01877 | 2.62 | 20 | |
| Xylenes, Total | 0.054 | 0.0060 | 0.06 | 0.001830 | 87.2 | 70 - 130 | 0.05506 | 1.64 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.049* | *0.0010* | *0.05* | *0* | *97.6* | *70 - 126* | *0.04874* | *0.127* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | *0.05180* | *0.93* | *20* | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.4* | *77 - 123* | *0.04895* | *0.463* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.0* | *82 - 127* | *0.04782* | *2.4* | *20* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-11 | HS25101288-12 | HS25101288-13 | HS25101288-14 |
| HS25101288-15 | HS25101288-16 | HS25101288-17 | HS25101288-18 |
| HS25101288-19 | HS25101288-20 | HS25101288-21 | HS25101288-22 |
| HS25101288-23 | HS25101288-24 | HS25101288-25 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525035 ( 0 )** **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

**MBLK** Sample ID: **MBLK-R525035** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525035** SeqNo: **9106953** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R525035** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525035** SeqNo: **9106952** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.88 | 5.00 | 25 | 0 | 95.5 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-R525035** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525035** SeqNo: **9106951** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 24.08 | 5.00 | 25 | 0 | 96.3 | 85 - 115 | 23.88 | 0.834 | 20 | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: **LDNR-5** Run ID: **WetChem_HS_525035** SeqNo: **9106955** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.08 | 5.00 | 25 | -0.72 | 95.2 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: **LDNR-5** Run ID: **WetChem_HS_525035** SeqNo: **9106954** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.88 | 5.00 | 25 | -0.72 | 94.4 | 80 - 120 | 23.08 | 0.87 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-01 | HS25101288-02 | HS25101288-03 | HS25101288-04 |
| HS25101288-05 | HS25101288-06 | HS25101288-07 | HS25101288-08 |
| HS25101288-09 | HS25101288-10 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** R525036 ( 0 ) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **27-Oct-2025 16:41**
Client ID: Run ID: **ICS-04_525036** SeqNo: **9106901** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | 0.100 | | | | | | | | |
| Chloride | U | 0.500 | | | | | | | | |
| Sulfate | U | 0.500 | | | | | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **27-Oct-2025 16:58**
Client ID: Run ID: **ICS-04_525036** SeqNo: **9106902** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 3.825 | 0.100 | 4 | 0 | 95.6 | 80 - 120 | | | | |
| Chloride | 20.49 | 0.500 | 20 | 0 | 102 | 80 - 120 | | | | |
| Sulfate | 20.36 | 0.500 | 20 | 0 | 102 | 80 - 120 | | | | |

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **27-Oct-2025 20:30**
Client ID: **MW-2-500** Run ID: **ICS-04_525036** SeqNo: **9106932** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.826 | 0.100 | 2 | 0.0921 | 86.7 | 80 - 120 | | | | |
| Chloride | 47.78 | 0.500 | 10 | 38.34 | 94.4 | 80 - 120 | | | | |
| Sulfate | 10.91 | 0.500 | 10 | 1.313 | 96.0 | 80 - 120 | | | | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **27-Oct-2025 17:39**
Client ID: **LDNR-5** Run ID: **ICS-04_525036** SeqNo: **9106909** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 17.36 | 1.00 | 20 | 0 | 86.8 | 80 - 120 | | | | |
| Chloride | 380.9 | 5.00 | 100 | 279.4 | 102 | 80 - 120 | | | | |
| Sulfate | 157.4 | 5.00 | 100 | 55.3 | 102 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** R525036 ( 0 ) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **27-Oct-2025 20:36**
Client ID: **MW-2-500** Run ID: **ICS-04_525036** SeqNo: **9106933** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.845 | 0.100 | 2 | 0.0921 | 87.6 | 80 - 120 | 1.826 | 1.05 | 20 | |
| Chloride | 47.95 | 0.500 | 10 | 38.34 | 96.1 | 80 - 120 | 47.78 | 0.351 | 20 | |
| Sulfate | 10.99 | 0.500 | 10 | 1.313 | 96.8 | 80 - 120 | 10.91 | 0.719 | 20 | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **27-Oct-2025 17:45**
Client ID: **LDNR-5** Run ID: **ICS-04_525036** SeqNo: **9106910** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 17.46 | 1.00 | 20 | 0 | 87.3 | 80 - 120 | 17.36 | 0.615 | 20 | |
| Chloride | 382.4 | 5.00 | 100 | 279.4 | 103 | 80 - 120 | 380.9 | 0.38 | 20 | |
| Sulfate | 158 | 5.00 | 100 | 55.3 | 103 | 80 - 120 | 157.4 | 0.367 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-01 | HS25101288-02 | HS25101288-03 | HS25101288-04 |
| HS25101288-05 | HS25101288-06 | HS25101288-07 | HS25101288-08 |
| HS25101288-09 | HS25101288-10 | HS25101288-11 | HS25101288-12 |
| HS25101288-13 | HS25101288-14 | HS25101288-15 | HS25101288-16 |
| HS25101288-17 | HS25101288-18 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525060 ( 0 )** **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

**MBLK** Sample ID: **MBLK-R525060** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525060** SeqNo: **9107531** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | U | 1.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R525060** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525060** SeqNo: **9107530** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.37 | 1.00 | 26.56 | 0 | 95.5 | 80 - 120 | | | | |

**LCSD** Sample ID: **LCSD-R525060** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525060** SeqNo: **9107529** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.58 | 1.00 | 26.56 | 0 | 96.3 | 80 - 120 | 25.37 | 0.834 | 20 | |

**MS** Sample ID: **HS25101288-07MS** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: **LDNR-5** Run ID: **WetChem_HS_525060** SeqNo: **9107533** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.52 | 1.00 | 26.56 | -0.765 | 95.2 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101288-07MSD** Units: **mg/L** Analysis Date: **27-Oct-2025 16:30**
Client ID: **LDNR-5** Run ID: **WetChem_HS_525060** SeqNo: **9107532** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.31 | 1.00 | 26.56 | -0.765 | 94.4 | 80 - 120 | 24.52 | 0.87 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-01 | HS25101288-02 | HS25101288-03 | HS25101288-04 |
| HS25101288-05 | HS25101288-06 | HS25101288-07 | HS25101288-08 |
| HS25101288-09 | HS25101288-10 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525148 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-10.24.2025** Units: **mg/L** Analysis Date: **27-Oct-2025 20:50**
Client ID: Run ID: **Skalar 03_525148** SeqNo: **9110148** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-10.24.2025** Units: **mg/L** Analysis Date: **27-Oct-2025 20:56**
Client ID: Run ID: **Skalar 03_525148** SeqNo: **9110149** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 976 | 5.00 | 1000 | 0 | 97.6 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-10.24.2025** Units: **mg/L** Analysis Date: **27-Oct-2025 21:02**
Client ID: Run ID: **Skalar 03_525148** SeqNo: **9110150** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 987.8 | 5.00 | 1000 | 0 | 98.8 | 85 - 115 | 976 | 1.2 | 20 | |

**DUP** Sample ID: **HS25101288-07DUP** Units: **mg/L** Analysis Date: **27-Oct-2025 22:04**
Client ID: **LDNR-5** Run ID: **Skalar 03_525148** SeqNo: **9110136** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | 161.8 | 5.00 | | | | | 166.5 | 2.86 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | 0 | 0 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-01 | HS25101288-02 | HS25101288-03 | HS25101288-04 |
| HS25101288-05 | HS25101288-06 | HS25101288-07 | HS25101288-08 |
| HS25101288-09 | HS25101288-10 | HS25101288-11 | HS25101288-12 |
| HS25101288-13 | HS25101288-14 | HS25101288-16 | HS25101288-17 |
| HS25101288-18 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525149 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-10.24.2025** Units: **mg/L** Analysis Date: **27-Oct-2025 23:25**
Client ID: Run ID: **Skalar 03_525149** SeqNo: **9110767** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-10.24.2025** Units: **mg/L** Analysis Date: **27-Oct-2025 23:31**
Client ID: Run ID: **Skalar 03_525149** SeqNo: **9110768** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 996.4 | 5.00 | 1000 | 0 | 99.6 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-10.24.2025** Units: **mg/L** Analysis Date: **27-Oct-2025 23:37**
Client ID: Run ID: **Skalar 03_525149** SeqNo: **9110769** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 995.4 | 5.00 | 1000 | 0 | 99.5 | 85 - 115 | 996.4 | 0.1 | 20 | |

**DUP** Sample ID: **HS25101288-15DUP** Units: **mg/L** Analysis Date: **27-Oct-2025 23:47**
Client ID: **MW-2-500** Run ID: **Skalar 03_525149** SeqNo: **9110771** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | 17.1 | 5.00 | | | | | 17 | 0.587 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 179 | 5.00 | | | | | 179.4 | 0.223 | 20 | |

**The following samples were analyzed in this batch:** HS25101288-15



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** **R525160 ( 0 )** **Instrument:** **WetChem_HS** **Method:** **PH BY SM4500H+ B**

**DUP** Sample ID: **HS25101288-07DUP** Units: **pH Units** Analysis Date: **29-Oct-2025 12:00**
Client ID: **LDNR-5** Run ID: **WetChem_HS_525160** SeqNo: **9110052** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.94 | 1.00 | | | | | 7.96 | 0.252 | 10 | |
| Temp Deg C @pH | 21.8 | 0 | | | | | 21.9 | 0.458 | 10 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-01 | HS25101288-02 | HS25101288-03 | HS25101288-04 |
| HS25101288-05 | HS25101288-06 | HS25101288-07 | HS25101288-08 |
| HS25101288-09 | HS25101288-10 | HS25101288-11 | HS25101288-12 |
| HS25101288-13 | HS25101288-14 | HS25101288-16 | HS25101288-17 |
| HS25101288-18 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID:** **R525162 ( 0 )** **Instrument:** **WetChem_HS** **Method:** **PH BY SM4500H+ B**

**DUP** Sample ID: **HS25101288-15DUP** Units: **pH Units** Analysis Date: **29-Oct-2025 13:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_525162** SeqNo: **9110066** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 10.58 | 1.00 | | | | | 10.58 | 0 | 10 | |
| Temp Deg C @pH | 21.8 | 0 | | | | | 21.8 | 0 | 10 | |

**The following samples were analyzed in this batch:** HS25101288-15



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525183 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-10282025** Units: **mg/L** Analysis Date: **28-Oct-2025 17:00**
Client ID: Run ID: **Balance1_525183** SeqNo: **9110439** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-10282025** Units: **mg/L** Analysis Date: **28-Oct-2025 17:00**
Client ID: Run ID: **Balance1_525183** SeqNo: **9110438** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1076 | 10.0 | 1000 | 0 | 108 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25101330-10DUP** Units: **mg/L** Analysis Date: **28-Oct-2025 17:00**
Client ID: Run ID: **Balance1_525183** SeqNo: **9110437** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 2072 | 10.0 | | | | | 2120 | 2.29 | 20 | |

**DUP** Sample ID: **HS25101288-07DUP** Units: **mg/L** Analysis Date: **28-Oct-2025 17:00**
Client ID: **LDNR-5** Run ID: **Balance1_525183** SeqNo: **9110423** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1040 | 10.0 | | | | | 1048 | 0.766 | 20 | |

**The following samples were analyzed in this batch:** HS25101288-07 HS25101288-08 HS25101288-09 HS25101288-10



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525193 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-10292025** Units: **mg/L** Analysis Date: **29-Oct-2025 08:30**
Client ID: Run ID: **Balance1_525193** SeqNo: **9110594** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-10292025** Units: **mg/L** Analysis Date: **29-Oct-2025 08:30**
Client ID: Run ID: **Balance1_525193** SeqNo: **9110593** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1028 | 10.0 | 1000 | 0 | 103 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25101413-01DUP** Units: **mg/L** Analysis Date: **29-Oct-2025 08:30**
Client ID: Run ID: **Balance1_525193** SeqNo: **9110592** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1604 | 10.0 | | | | | 1564 | 2.53 | 20 | |

**DUP** Sample ID: **HS25101238-05DUP** Units: **mg/L** Analysis Date: **29-Oct-2025 08:30**
Client ID: Run ID: **Balance1_525193** SeqNo: **9110573** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 8340 | 10.0 | | | | | 8220 | 1.45 | 20 | |

**The following samples were analyzed in this batch:** HS25101288-01 HS25101288-02 HS25101288-03 HS25101288-04 HS25101288-05 HS25101288-06



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525234 ( 0 )** **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

**MBLK** Sample ID: **MBLK-R525234** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525234** SeqNo: **9111955** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R525234** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525234** SeqNo: **9111954** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 24.88 | 5.00 | 25 | 0 | 99.5 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-R525234** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525234** SeqNo: **9111953** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 24.68 | 5.00 | 25 | 0 | 98.7 | 85 - 115 | 24.88 | 0.807 | 20 | |

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: **MW-2-500** Run ID: **WetChem_HS_525234** SeqNo: **9111957** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.88 | 5.00 | 25 | 1.68 | 84.8 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: **MW-2-500** Run ID: **WetChem_HS_525234** SeqNo: **9111956** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.68 | 5.00 | 25 | 1.68 | 84.0 | 80 - 120 | 22.88 | 0.878 | 20 | |

**The following samples were analyzed in this batch:** HS25101288-11 HS25101288-12 HS25101288-13 HS25101288-14 HS25101288-15 HS25101288-16 HS25101288-17 HS25101288-18



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525235 ( 0 )** **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

**MBLK** Sample ID: **MBLK-R525235** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525235** SeqNo: **9111970** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | U | 1.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R525235** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525235** SeqNo: **9111969** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 26.44 | 1.00 | 26.56 | 0 | 99.5 | 80 - 120 | | | | |

**LCSD** Sample ID: **LCSD-R525235** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: Run ID: **WetChem_HS_525235** SeqNo: **9111968** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 26.22 | 1.00 | 26.56 | 0 | 98.7 | 80 - 120 | 26.44 | 0.807 | 20 | |

**MS** Sample ID: **HS25101288-15MS** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: **MW-2-500** Run ID: **WetChem_HS_525235** SeqNo: **9111972** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.31 | 1.00 | 26.56 | 1.785 | 84.8 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101288-15MSD** Units: **mg/L** Analysis Date: **29-Oct-2025 16:30**
Client ID: **MW-2-500** Run ID: **WetChem_HS_525235** SeqNo: **9111971** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.1 | 1.00 | 26.56 | 1.785 | 84.0 | 80 - 120 | 24.31 | 0.878 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-11 | HS25101288-12 | HS25101288-13 | HS25101288-14 |
| HS25101288-15 | HS25101288-16 | HS25101288-17 | HS25101288-18 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101288

**QC BATCH REPORT**

**Batch ID: R525278 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-10292025** Units: **mg/L** Analysis Date: **29-Oct-2025 17:30**
Client ID: Run ID: **Balance1_525278** SeqNo: **9113004** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-10292025** Units: **mg/L** Analysis Date: **29-Oct-2025 17:30**
Client ID: Run ID: **Balance1_525278** SeqNo: **9113003** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1048 | 10.0 | 1000 | 0 | 105 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25101445-01DUP** Units: **mg/L** Analysis Date: **29-Oct-2025 17:30**
Client ID: Run ID: **Balance1_525278** SeqNo: **9112999** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 956 | 10.0 | | | | | 924 | 3.4 | 20 | |

**DUP** Sample ID: **HS25101288-15DUP** Units: **mg/L** Analysis Date: **29-Oct-2025 17:30**
Client ID: **MW-2-500** Run ID: **Balance1_525278** SeqNo: **9112993** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 836 | 10.0 | | | | | 808 | 3.41 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25101288-11 | HS25101288-12 | HS25101288-13 | HS25101288-14 |
| HS25101288-15 | HS25101288-16 | HS25101288-17 | HS25101288-18 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** **HS25101288**

**QUALIFIERS, ACRONYMS, UNITS**

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| M | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL/SDL |

| Acronym | Description |
|---|---|
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |
| SDL | Sample Detection Limit |
| TRRP | Texas Risk Reduction Program |

| Unit Reported | Description |
|---|---|
| mg/L | Milligrams per Liter |



RIGHT SOLUTIONS | RIGHT PARTNER

## CERTIFICATIONS,ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|---|---|---|
| Arizona | AZ0793 | 27-May-2026 |
| Arkansas | 88-00356_2024 | 17-Mar-2026 |
| California | 2919 - 2025 | 30-Apr-2026 |
| Dept of Defense | L24-239 | 30-Apr-2026 |
| Dept of Defense | L24-240 | 30-Apr-2026 |
| Florida | E87611-2025 | 30-Jun-2026 |
| Illinois | 200032 - 2025 | 31-Jul-2026 |
| Kansas | KS-C25-00168 | 31-Jul-2026 |
| Kentucky | 123043-2025 | 30-Apr-2026 |
| Louisiana | 03087-2025 | 30-Jun-2026 |
| Maine | 2024017 | 23-Jun-2026 |
| Michigan | 9971-2025 | 30-Apr-2026 |
| Minnesota | 2856348 | 31-Dec-2025 |
| Missouri | 136 | 30-Sep-2026 |
| Nebraska | NE-OS-25-13 - 2025 | 30-Apr-2026 |
| Nevada | NV-C25-00124 - 2025 | 31-Jul-2026 |
| New Hampshire | 209425 | 24-Apr-2026 |
| New Jersey | TX008-2025 | 30-Jun-2026 |
| New York | 11707 - 2025 | 01-Apr-2026 |
| North Carolina | 624 - 2024 | 31-Dec-2025 |
| Oregon | TX200002-013 | 15-May-2026 |
| Pennsylvania | 019 | 01-Jul-2026 |
| Tennessee | TN | 30-Apr-2026 |
| Texas | TX-C25-00104 | 30-Apr-2026 |



RIGHT SOLUTIONS | RIGHT PARTNER

## Sample Receipt Checklist

**Work Order ID:** HS25101288 **Date/Time Received:** **24-Oct-2025 11:24**

**Client Name:** ERMSW-HOU **Received by:** **Edgar Zheku**

| **Completed By:** | /S/ Si Ma | 25-Oct-2025 14:51 | **Reviewed by:** | /S/ Beverly Mustafa | 27-Oct-2025 08:43 |
|---|---|---|---|---|---|
| | eSignature | Date/Time | | eSignature | Date/Time |

Matrices: **WATER** Carrier name: **Client**

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | 3 Page(s) |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | COC IDs:351994 / 345391 / 345394 |
| Samplers name present on COC? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |

| | | |
|---|---|---|
| Temperature(s)/Thermometer(s): | 1.9UC/C, 4.6UC/C, 4.2UC/C, 2.6UC/C, 1.5UC/C, 3.8UC/C, 1.1UC/C | IR34 |
| Cooler(s)/Kit(s): | 53941/54098/54664/54732/52893/54250/46469 | |
| Date/Time sample(s) sent to storage: | 10/25/2025 14:55 | |

| | | | |
|---|---|---|---|
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | | | |

Login Notes: Used time on bottle labels for samples with missing times

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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# Chain of Custody Form

Page 1 of 3

COC ID: 351994

**HS25101288**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | | | |
|---|---|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1-700 | 10/22/25 | | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | MW-1-500 | 10/22/25 | | W | | | | | | | | | | | | | |
| 3 | MW-2-700 | 10/22/25 | | W | | | | | | | | | | | | | |
| 4 | LDNR-17 | 10/22/25 | | W | | | | | | | | | | | | | |
| 5 | LDNR-18 | 10/22/25 | | W | | | | | | | | | | | | | |
| 6 | LDNR-21 | 10/22/25 | | W | | | | | | | | | | | | | |
| 7 | LDNR-5 (MS+MSD) | 10/22/25 | | W | | | | | | | | | | | | | |
| 8 | LDNR-[illegible]09 | 10/22/25 | | W | | | | | | | | | | | | | |
| 9 | GW-DUP-02 | 10/22/25 | | W | | | | | | | | | | | | | |
| 10 | LDNR-01 | 10/22/25 | | W | X | X | X | X | X | X | X | X | X | X | X | X | |

Sampler(s) Please Print & Sign: Taylor Brown

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Date: 10/24 | Time: 1120 | Received by: | Notes: ERM Sulphur Dome | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 10/24/25 11:24 | Cooler ID: IR37 | Cooler Temp.: 1.8-0 |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | | |

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level III Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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3. The Chain of Custody is a legal document. All information must be completed accurately.

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# Chain of Custody Form



COC ID: 345391

**HS25101288**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | |
|---|---|---|---|
| Purchase Order | 0777906 | Project Name | Sulphur Dome |
| Work Order | | Project Number | |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com |

| | |
|---|---|
| A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| C | HG_W (Mercury) |
| D | MA EPH_W_La (MA EPH) |
| E | MA VPH_LA_W |
| F | 9056_anions_W (Cl,SO4,Br) / pH |
| G | ALK_W 2320B (carb, bicarb) |
| H | H2S_W (H2S) |
| I | SULFD_4500S F (Sulfide) |
| J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 019-1603 | 10/23/25 | 0730 | W | 1219.8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | Cottages | | 0800 | W | | | | | | | | | | | | | |
| 3 | PPG-07B | | 0840 | W | | | | | | | | | | | | | |
| 4 | MW-2-200 | | 0830 | W | | | | | | | | | | | | | |
| 5 | MW-2-500 | | 0950 | W | | | | | | | | | | | | | |
| 6 | GW-DUP-01 | | 9999 | W | | | | | | | | | | | | | |
| 7 | MS-MW-2-500 | | 0950 | W | | | | | | | | | | | | | |
| 8 | MSD-MW-2-500 | | 0950 | W | | | | | | | | | | | | | |
| 9 | MW-1-200 | | 1215 | W | | | | | | | | | | | | | |
| 10 | FB-102325 | | 0820 | W | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: David Sanguinetti

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

| | | | | |
|---|---|---|---|---|
| Relinquished by: | Date: 10/24/25 | Time: 1120 | Received by: | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 10/24/25 | 11:74 |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | |

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| | |
| | |
| | |

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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# Chain of Custody Form



COC ID: 345394

**HS25101288**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | |
|---|---|---|---|
| Purchase Order | 0777906 | Project Name | Sulphur Dome |
| Work Order | | Project Number | |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com |

| | |
|---|---|
| A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| B | ICP-As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| C | HG_W (Mercury) |
| D | MA EPH_W_La (MA EPH) |
| E | MA VPH_LA_W |
| F | 9056_anions_W (Cl,SO4,Br) / pH |
| G | ALK_W 2320B (carb, bicarb) |
| H | H2S_W (H2S) |
| I | SULFD_4500S F (Sulfide) |
| J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CG-100125-384 | | | W | 1 | 2 | X | | | | | | | | | | |
| 2 | CG-100125-373 | | | | | | | | | | | | | | | | |
| 3 | CG-100125-374 | | | | | | | | | | | | | | | | |
| 4 | CG-100125-382 | | | | | | | | | | | | | | | | |
| 5 | CG-100125-386 | | | | | | | | | | | | | | | | |
| 6 | CG-100125-371 | | | | | | | | | | | | | | | | |
| 7 | CG-100125 375 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Taylar Brown

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 10/24/25 | Time: 1120 | Received by: |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 10/24/25 11:24 |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): |

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| | |
| | |
| | |

QC Package: (Check One Box Below)

- ☒ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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November 06, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25101569**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 6 sample(s) on Oct 30, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

**Generated By: JUMOKE.LAWAL**
Alexis Dorenbosch
Project Manager

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**Work Order:** HS25101569

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS25101569-01 | 019-995 | Water | | 30-Oct-2025 10:45 | 30-Oct-2025 16:00 | ☐ |
| HS25101569-02 | 019-580 | Water | | 30-Oct-2025 11:05 | 30-Oct-2025 16:00 | ☐ |
| HS25101569-03 | 019-582 | Water | | 30-Oct-2025 11:30 | 30-Oct-2025 16:00 | ☐ |
| HS25101569-04 | FB-103025 | Water | | 30-Oct-2025 11:35 | 30-Oct-2025 16:00 | ☐ |
| HS25101569-05 | Trip Blank CG-100125-381 | Water | | 30-Oct-2025 00:00 | 30-Oct-2025 16:00 | ☐ |
| HS25101569-06 | Trip Blank CG-100125-372 | Water | | 30-Oct-2025 00:00 | 30-Oct-2025 16:00 | ☐ |



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**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25101569

## Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

## GC Semivolatiles by Method MA EPH

### Batch ID: 235074

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GC Volatiles by Method MA VPH

### Batch ID: R525571,R525574

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GCMS Volatiles by Method SW8260

### Batch ID: R525744

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

### Batch ID: R525609

**Sample ID: HS25101452-01MSD**

• MSD is for an unrelated sample

## Metals by Method SW7470A

### Batch ID: 235197

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## Metals by Method SW6020A

### Batch ID: 235089

**Sample ID: HS25101441-01MS**

• MS and MSD are for an unrelated sample

## WetChemistry by Method M2540C

### Batch ID: R525524,R525681

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method E376.1

### Batch ID: R525566

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method SW9056

### Batch ID: R525602

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



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**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25101569

**WetChemistry by Method SW9056**

**WetChemistry by Method SM4500 S2-F**

**Batch ID: R525471**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SM4500H+ B**

**Batch ID: R525422**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SM2320B**

**Batch ID: R525421**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 30-Oct-2025 10:45

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 04-Nov-2025 13:29 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 04-Nov-2025 13:29 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 04-Nov-2025 13:29 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 04-Nov-2025 13:29 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 04-Nov-2025 13:29 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 04-Nov-2025 13:29 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-126* | *%REC* | *1* | *04-Nov-2025 13:29* |
| *Surr: 4-Bromofluorobenzene* | *108* | | | *77-113* | *%REC* | *1* | *04-Nov-2025 13:29* |
| *Surr: Dibromofluoromethane* | *98.9* | | | *77-123* | *%REC* | *1* | *04-Nov-2025 13:29* |
| *Surr: Toluene-d8* | *98.3* | | | *82-127* | *%REC* | *1* | *04-Nov-2025 13:29* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 03-Nov-2025 21:48 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 03-Nov-2025 21:48 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 03-Nov-2025 21:48 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *104* | | | *70-130* | *%REC* | *1* | *03-Nov-2025 21:48* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *103* | | | *70-130* | *%REC* | *1* | *03-Nov-2025 21:48* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 03-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:06 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:06 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:06 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:06 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:06 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:06 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:06 |
| *Surr: 1-Chlorooctadecane* | *76.4* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 12:06* |
| *Surr: 2-Bromonaphthalene* | *94.1* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 12:06* |
| *Surr: 2-Fluorobiphenyl* | *94.2* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 12:06* |
| *Surr: o-Terphenyl* | *87.5* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 12:06* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



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Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 30-Oct-2025 10:45

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 03-Nov-2025 | | Analyst: JC |
| **Arsenic** | **0.00125** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Barium** | **0.917** | | **0.000750** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Calcium** | **26.6** | | **0.120** | **0.500** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Chromium** | **0.106** | | **0.00173** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Iron** | **86.1** | | **0.0600** | **0.200** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Lead** | **0.00935** | | **0.000470** | **0.00200** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Magnesium** | **7.31** | | **0.0408** | **0.200** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Manganese** | **0.605** | | **0.00190** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Nickel** | **0.0287** | | **0.00130** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Potassium** | **2.86** | | **0.0869** | **0.500** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Sodium** | **38.5** | | **0.130** | **0.500** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **Strontium** | **0.282** | | **0.000300** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:23 |
| **Zinc** | **0.0140** | | **0.00300** | **0.0100** | **mg/L** | 1 | 06-Nov-2025 12:23 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Nov-2025 | | Analyst: JS |
| **Mercury** | **0.0000550** | J | **0.0000300** | **0.000200** | **mg/L** | 1 | 05-Nov-2025 13:44 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 31-Oct-2025 11:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **254** | | **3.00** | **10.0** | **mg/L** | 1 | 03-Nov-2025 10:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **131** | | **1.20** | **5.00** | **mg/L** | 1 | 31-Oct-2025 22:08 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 31-Oct-2025 22:08 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 31-Oct-2025 11:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.23** | H | **0.100** | **1.00** | **pH Units** | 1 | 31-Oct-2025 22:08 |
| **Temp Deg C @pH** | **22.5** | H | **0** | **0** | **°C** | 1 | 31-Oct-2025 22:08 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0782** | J | **0.0300** | **0.100** | **mg/L** | 1 | 03-Nov-2025 11:15 |
| **Chloride** | **38.4** | | **0.200** | **0.500** | **mg/L** | 1 | 03-Nov-2025 11:15 |
| **Sulfate** | **2.18** | | **0.200** | **0.500** | **mg/L** | 1 | 03-Nov-2025 11:15 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-580
Collection Date: 30-Oct-2025 11:05

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 04-Nov-2025 13:52 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 04-Nov-2025 13:52 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 04-Nov-2025 13:52 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 04-Nov-2025 13:52 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 04-Nov-2025 13:52 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 04-Nov-2025 13:52 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-126* | *%REC* | *1* | *04-Nov-2025 13:52* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *04-Nov-2025 13:52* |
| *Surr: Dibromofluoromethane* | *104* | | | *77-123* | *%REC* | *1* | *04-Nov-2025 13:52* |
| *Surr: Toluene-d8* | *98.8* | | | *82-127* | *%REC* | *1* | *04-Nov-2025 13:52* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 03-Nov-2025 22:27 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 03-Nov-2025 22:27 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 03-Nov-2025 22:27 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *96.8* | | | *70-130* | *%REC* | *1* | *03-Nov-2025 22:27* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *96.8* | | | *70-130* | *%REC* | *1* | *03-Nov-2025 22:27* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 03-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:35 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:35 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:35 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:35 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:35 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:35 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 12:35 |
| *Surr: 1-Chlorooctadecane* | *68.5* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 12:35* |
| *Surr: 2-Bromonaphthalene* | *96.4* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 12:35* |
| *Surr: 2-Fluorobiphenyl* | *94.8* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 12:35* |
| *Surr: o-Terphenyl* | *76.2* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 12:35* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-580
Collection Date: 30-Oct-2025 11:05

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 03-Nov-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 06-Nov-2025 12:25 |
| **Barium** | **0.228** | | **0.000750** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| **Calcium** | **23.1** | | **0.120** | **0.500** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| **Chromium** | **0.00495** | J | **0.00173** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| **Iron** | **7.53** | | **0.0600** | **0.200** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| **Lead** | **0.00245** | | **0.000470** | **0.00200** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| **Magnesium** | **7.25** | | **0.0408** | **0.200** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| **Manganese** | **0.357** | | **0.00190** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:25 |
| **Potassium** | **2.88** | | **0.0869** | **0.500** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| **Sodium** | **38.4** | | **0.130** | **0.500** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| **Strontium** | **0.216** | | **0.000300** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:25 |
| **Zinc** | **0.00938** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 06-Nov-2025 12:25 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Nov-2025 | | Analyst: JS |
| **Mercury** | **0.0000560** | J | **0.0000300** | **0.000200** | **mg/L** | 1 | 05-Nov-2025 13:46 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 31-Oct-2025 11:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **194** | | **3.00** | **10.0** | **mg/L** | 1 | 03-Nov-2025 10:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **121** | | **1.20** | **5.00** | **mg/L** | 1 | 31-Oct-2025 22:14 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 31-Oct-2025 22:14 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 31-Oct-2025 11:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.20** | H | **0.100** | **1.00** | **pH Units** | 1 | 31-Oct-2025 22:14 |
| **Temp Deg C @pH** | **22.5** | H | **0** | **0** | **°C** | 1 | 31-Oct-2025 22:14 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0803** | J | **0.0300** | **0.100** | **mg/L** | 1 | 03-Nov-2025 11:21 |
| **Chloride** | **40.2** | | **0.200** | **0.500** | **mg/L** | 1 | 03-Nov-2025 11:21 |
| **Sulfate** | **2.09** | | **0.200** | **0.500** | **mg/L** | 1 | 03-Nov-2025 11:21 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 30-Oct-2025 11:30

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 04-Nov-2025 14:15 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 04-Nov-2025 14:15 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 04-Nov-2025 14:15 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 04-Nov-2025 14:15 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 04-Nov-2025 14:15 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 04-Nov-2025 14:15 |
| *Surr: 1,2-Dichloroethane-d4* | *103* | | | *70-126* | *%REC* | *1* | *04-Nov-2025 14:15* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *04-Nov-2025 14:15* |
| *Surr: Dibromofluoromethane* | *99.6* | | | *77-123* | *%REC* | *1* | *04-Nov-2025 14:15* |
| *Surr: Toluene-d8* | *98.8* | | | *82-127* | *%REC* | *1* | *04-Nov-2025 14:15* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 03-Nov-2025 23:06 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 03-Nov-2025 23:06 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 03-Nov-2025 23:06 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *98.8* | | | *70-130* | *%REC* | *1* | *03-Nov-2025 23:06* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *98.4* | | | *70-130* | *%REC* | *1* | *03-Nov-2025 23:06* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 03-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:03 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:03 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:03 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:03 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:03 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:03 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:03 |
| *Surr: 1-Chlorooctadecane* | *82.1* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 13:03* |
| *Surr: 2-Bromonaphthalene* | *97.7* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 13:03* |
| *Surr: 2-Fluorobiphenyl* | *98.2* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 13:03* |
| *Surr: o-Terphenyl* | *96.4* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 13:03* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 30-Oct-2025 11:30

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 03-Nov-2025 | | Analyst: JC |
| **Arsenic** | **0.00158** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Barium** | **0.370** | | **0.000750** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Calcium** | **24.4** | | **0.120** | **0.500** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Chromium** | **0.132** | | **0.00173** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Iron** | **21.3** | | **0.0600** | **0.200** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Lead** | **0.00979** | | **0.000470** | **0.00200** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Magnesium** | **7.37** | | **0.0408** | **0.200** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Manganese** | **0.394** | | **0.00190** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Nickel** | **0.00516** | | **0.00130** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Potassium** | **2.99** | | **0.0869** | **0.500** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Sodium** | **39.0** | | **0.130** | **0.500** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **Strontium** | **0.230** | | **0.000300** | **0.00500** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:27 |
| **Zinc** | **0.0130** | | **0.00300** | **0.0100** | **mg/L** | 1 | 06-Nov-2025 12:27 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Nov-2025 | | Analyst: JS |
| **Mercury** | **0.0000510** | J | **0.0000300** | **0.000200** | **mg/L** | 1 | 05-Nov-2025 13:47 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **0.552** | J | **0.500** | **1.00** | **mg/L** | 1 | 31-Oct-2025 11:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| **Total Dissolved Solids (Residue, Filterable)** | **390** | | **3.00** | **10.0** | **mg/L** | 1 | 04-Nov-2025 14:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **120** | | **1.20** | **5.00** | **mg/L** | 1 | 31-Oct-2025 22:25 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 31-Oct-2025 22:25 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 31-Oct-2025 11:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.22** | H | **0.100** | **1.00** | **pH Units** | 1 | 31-Oct-2025 22:25 |
| **Temp Deg C @pH** | **22.6** | H | **0** | **0** | **°C** | 1 | 31-Oct-2025 22:25 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0803** | J | **0.0300** | **0.100** | **mg/L** | 1 | 03-Nov-2025 11:45 |
| **Chloride** | **40.2** | | **0.200** | **0.500** | **mg/L** | 1 | 03-Nov-2025 11:45 |
| **Sulfate** | **3.24** | | **0.200** | **0.500** | **mg/L** | 1 | 03-Nov-2025 11:45 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-103025
Collection Date: 30-Oct-2025 11:35

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 04-Nov-2025 14:39 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 04-Nov-2025 14:39 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 04-Nov-2025 14:39 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 04-Nov-2025 14:39 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 04-Nov-2025 14:39 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 04-Nov-2025 14:39 |
| *Surr: 1,2-Dichloroethane-d4* | *104* | | | *70-126* | *%REC* | *1* | *04-Nov-2025 14:39* |
| *Surr: 4-Bromofluorobenzene* | *104* | | | *77-113* | *%REC* | *1* | *04-Nov-2025 14:39* |
| *Surr: Dibromofluoromethane* | *99.1* | | | *77-123* | *%REC* | *1* | *04-Nov-2025 14:39* |
| *Surr: Toluene-d8* | *98.4* | | | *82-127* | *%REC* | *1* | *04-Nov-2025 14:39* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 03-Nov-2025 21:09 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 03-Nov-2025 21:09 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 03-Nov-2025 21:09 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *97.2* | | | *70-130* | *%REC* | *1* | *03-Nov-2025 21:09* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *96.8* | | | *70-130* | *%REC* | *1* | *03-Nov-2025 21:09* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 03-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:32 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:32 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:32 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:32 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:32 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:32 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 04-Nov-2025 13:32 |
| *Surr: 1-Chlorooctadecane* | *67.8* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 13:32* |
| *Surr: 2-Bromonaphthalene* | *102* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 13:32* |
| *Surr: 2-Fluorobiphenyl* | *102* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 13:32* |
| *Surr: o-Terphenyl* | *89.4* | | | *40-140* | *%REC* | *1* | *04-Nov-2025 13:32* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-103025
Collection Date: 30-Oct-2025 11:35

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 03-Nov-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 06-Nov-2025 12:29 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:29 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 06-Nov-2025 12:29 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:29 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 06-Nov-2025 12:29 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 06-Nov-2025 12:29 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 06-Nov-2025 12:29 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:29 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:29 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 06-Nov-2025 12:29 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 06-Nov-2025 12:29 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:29 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 06-Nov-2025 12:29 |
| **Zinc** | **0.00343** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 06-Nov-2025 12:29 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Nov-2025 | | Analyst: JS |
| **Mercury** | **0.0000540** | J | **0.0000300** | **0.000200** | **mg/L** | 1 | 05-Nov-2025 13:49 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 31-Oct-2025 11:30 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MH |
| Total Dissolved Solids (Residue, Filterable) | U | | 3.00 | 10.0 | mg/L | 1 | 04-Nov-2025 14:00 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 31-Oct-2025 22:29 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 31-Oct-2025 22:29 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 31-Oct-2025 11:30 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.25** | H | **0.100** | **1.00** | **pH Units** | 1 | 31-Oct-2025 22:29 |
| **Temp Deg C @pH** | **22.6** | H | **0** | **0** | **°C** | 1 | 31-Oct-2025 22:29 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 03-Nov-2025 11:27 |
| **Chloride** | **0.215** | J | **0.200** | **0.500** | **mg/L** | 1 | 03-Nov-2025 11:27 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 03-Nov-2025 11:27 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Trip Blank CG-100125-381
Collection Date: 30-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 05-Nov-2025 22:37 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 05-Nov-2025 22:37 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 05-Nov-2025 22:37 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 05-Nov-2025 22:37 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 05-Nov-2025 22:37 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 05-Nov-2025 22:37 |
| *Surr: 1,2-Dichloroethane-d4* | *96.2* | | | *70-126* | *%REC* | *1* | *05-Nov-2025 22:37* |
| *Surr: 4-Bromofluorobenzene* | *104* | | | *77-113* | *%REC* | *1* | *05-Nov-2025 22:37* |
| *Surr: Dibromofluoromethane* | *95.5* | | | *77-123* | *%REC* | *1* | *05-Nov-2025 22:37* |
| *Surr: Toluene-d8* | *100* | | | *82-127* | *%REC* | *1* | *05-Nov-2025 22:37* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Trip Blank CG-100125-372
Collection Date: 30-Oct-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25101569
Lab ID:HS25101569-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 05-Nov-2025 22:59 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 05-Nov-2025 22:59 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 05-Nov-2025 22:59 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 05-Nov-2025 22:59 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 05-Nov-2025 22:59 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 05-Nov-2025 22:59 |
| *Surr: 1,2-Dichloroethane-d4* | *95.9* | | | *70-126* | *%REC* | *1* | *05-Nov-2025 22:59* |
| *Surr: 4-Bromofluorobenzene* | *102* | | | *77-113* | *%REC* | *1* | *05-Nov-2025 22:59* |
| *Surr: Dibromofluoromethane* | *94.0* | | | *77-123* | *%REC* | *1* | *05-Nov-2025 22:59* |
| *Surr: Toluene-d8* | *102* | | | *82-127* | *%REC* | *1* | *05-Nov-2025 22:59* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**Batch ID:** 235074 **Start Date:** 03 Nov 2025 12:47 **End Date:** 03 Nov 2025 12:47
**Method:** MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101569-01 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101569-02 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101569-03 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25101569-04 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |

**Batch ID:** 235089 **Start Date:** 03 Nov 2025 10:00 **End Date:** 03 Nov 2025 10:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101569-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101569-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101569-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101569-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 235197 **Start Date:** 05 Nov 2025 08:30 **End Date:** 05 Nov 2025 08:30
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25101569-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101569-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101569-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25101569-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 235074 ( 0 ) | **Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019 | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | 03 Nov 2025 12:47 | 04 Nov 2025 12:06 | 1 |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | 03 Nov 2025 12:47 | 04 Nov 2025 12:06 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | 03 Nov 2025 12:47 | 04 Nov 2025 12:35 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | 03 Nov 2025 12:47 | 04 Nov 2025 12:35 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | 03 Nov 2025 12:47 | 04 Nov 2025 13:03 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | 03 Nov 2025 12:47 | 04 Nov 2025 13:03 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | 03 Nov 2025 12:47 | 04 Nov 2025 13:32 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | 03 Nov 2025 12:47 | 04 Nov 2025 13:32 | 1 |
| **Batch ID:** 235089 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | 03 Nov 2025 10:00 | 06 Nov 2025 12:23 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | 03 Nov 2025 10:00 | 06 Nov 2025 12:25 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | 03 Nov 2025 10:00 | 06 Nov 2025 12:27 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | 03 Nov 2025 10:00 | 06 Nov 2025 12:29 | 1 |
| **Batch ID:** 235197 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | 05 Nov 2025 08:30 | 05 Nov 2025 13:44 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | 05 Nov 2025 08:30 | 05 Nov 2025 13:46 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | 05 Nov 2025 08:30 | 05 Nov 2025 13:47 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | 05 Nov 2025 08:30 | 05 Nov 2025 13:49 | 1 |
| **Batch ID:** R525421 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | | 31 Oct 2025 22:08 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | | 31 Oct 2025 22:14 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | | 31 Oct 2025 22:25 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | | 31 Oct 2025 22:29 | 1 |
| **Batch ID:** R525422 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | | 31 Oct 2025 22:08 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | | 31 Oct 2025 22:14 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | | 31 Oct 2025 22:25 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | | 31 Oct 2025 22:29 | 1 |
| **Batch ID:** R525471 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | | 31 Oct 2025 11:30 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | | 31 Oct 2025 11:30 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | | 31 Oct 2025 11:30 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | | 31 Oct 2025 11:30 | 1 |
| **Batch ID:** R525524 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | | 03 Nov 2025 10:00 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | | 03 Nov 2025 10:00 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R525566 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | | 31 Oct 2025 11:30 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | | 31 Oct 2025 11:30 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | | 31 Oct 2025 11:30 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | | 31 Oct 2025 11:30 | 1 |
| **Batch ID:** R525571 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | | 03 Nov 2025 21:48 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | | 03 Nov 2025 22:27 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | | 03 Nov 2025 23:06 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | | 03 Nov 2025 21:09 | 1 |
| **Batch ID:** R525574 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | | 03 Nov 2025 21:48 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | | 03 Nov 2025 22:27 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | | 03 Nov 2025 23:06 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | | 03 Nov 2025 21:09 | 1 |
| **Batch ID:** R525602 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | | 03 Nov 2025 11:15 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | | 03 Nov 2025 11:21 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | | 03 Nov 2025 11:45 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | | 03 Nov 2025 11:27 | 1 |
| **Batch ID:** R525609 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25101569-01 | 019-995 | 30 Oct 2025 10:45 | | | 04 Nov 2025 13:29 | 1 |
| HS25101569-02 | 019-580 | 30 Oct 2025 11:05 | | | 04 Nov 2025 13:52 | 1 |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | | 04 Nov 2025 14:15 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | | 04 Nov 2025 14:39 | 1 |
| **Batch ID:** R525681 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25101569-03 | 019-582 | 30 Oct 2025 11:30 | | | 04 Nov 2025 14:00 | 1 |
| HS25101569-04 | FB-103025 | 30 Oct 2025 11:35 | | | 04 Nov 2025 14:00 | 1 |
| **Batch ID:** R525744 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25101569-05 | Trip Blank CG-100125-381 | 30 Oct 2025 00:00 | | | 05 Nov 2025 22:37 | 1 |
| HS25101569-06 | Trip Blank CG-100125-372 | 30 Oct 2025 00:00 | | | 05 Nov 2025 22:59 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: 235074 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MBLK** Sample ID: **MBLK-235074** Units: **mg/L** Analysis Date: **04-Nov-2025 10:30**
Client ID: Run ID: **FID23_525802** SeqNo: **9125979** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aliphatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aliphatics >C16 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02884* | *0* | *0.04* | *0* | *72.1* | *40 - 140* | | | | |

**MBLK** Sample ID: **MBLK-235074** Units: **mg/L** Analysis Date: **04-Nov-2025 10:30**
Client ID: Run ID: **FID-22_525806** SeqNo: **9126052** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aromatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aromatics >C16 - C21 | U | 0.100 | | | | | | | | |
| Aromatics >C21 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03521* | *0* | *0.04* | *0* | *88.0* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03687* | *0* | *0.04* | *0* | *92.2* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03367* | *0* | *0.04* | *0* | *84.2* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-235074** Units: **mg/L** Analysis Date: **04-Nov-2025 10:59**
Client ID: Run ID: **FID23_525802** SeqNo: **9125980** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04774 | 0.100 | 0.05 | 0 | 95.5 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.1062 | 0.100 | 0.1 | 0 | 106 | 40 - 140 | | | | |
| Aliphatics >C16 - C35 | 0.4302 | 0.100 | 0.4 | 0 | 108 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.03543* | *0* | *0.04* | *0* | *88.6* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: 235074 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**LCS** Sample ID: **LCS-235074** Units: **mg/L** Analysis Date: **04-Nov-2025 10:59**
Client ID: Run ID: **FID-22_525806** SeqNo: **9126053** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.05973 | 0.100 | 0.05 | 0 | 119 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.194 | 0.100 | 0.2 | 0 | 97.0 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1689 | 0.100 | 0.15 | 0 | 113 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.5125 | 0.100 | 0.45 | 0 | 114 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.04103* | *0* | *0.04* | *0* | *103* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03999* | *0* | *0.04* | *0* | *100.0* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.0443* | *0* | *0.04* | *0* | *111* | *40 - 140* | | | | |

**LCSD** Sample ID: **LCSD-235074** Units: **mg/L** Analysis Date: **04-Nov-2025 11:37**
Client ID: Run ID: **FID23_525802** SeqNo: **9125981** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04798 | 0.100 | 0.05 | 0 | 96.0 | 40 - 140 | 0.04774 | 0 | 50 | J |
| Aliphatics >C12 - C16 | 0.1068 | 0.100 | 0.1 | 0 | 107 | 40 - 140 | 0.1062 | 0.556 | 50 | |
| Aliphatics >C16 - C35 | 0.4314 | 0.100 | 0.4 | 0 | 108 | 40 - 140 | 0.4302 | 0.259 | 50 | |
| *Surr: 1-Chlorooctadecane* | *0.0355* | *0* | *0.04* | *0* | *88.8* | *40 - 140* | *0.03543* | *0.193* | *50* | |

**LCSD** Sample ID: **LCSD-235074** Units: **mg/L** Analysis Date: **04-Nov-2025 11:37**
Client ID: Run ID: **FID-22_525806** SeqNo: **9126054** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.06049 | 0.100 | 0.05 | 0 | 121 | 40 - 140 | 0.05973 | 0 | 50 | J |
| Aromatics >C12 - C16 | 0.1932 | 0.100 | 0.2 | 0 | 96.6 | 40 - 140 | 0.194 | 0.45 | 50 | |
| Aromatics >C16 - C21 | 0.1702 | 0.100 | 0.15 | 0 | 113 | 40 - 140 | 0.1689 | 0.726 | 50 | |
| Aromatics >C21 - C35 | 0.5142 | 0.100 | 0.45 | 0 | 114 | 40 - 140 | 0.5125 | 0.326 | 50 | |
| *Surr: 2-Bromonaphthalene* | *0.04055* | *0* | *0.04* | *0* | *101* | *40 - 140* | *0.04103* | *1.17* | *50* | |
| *Surr: 2-Fluorobiphenyl* | *0.04016* | *0* | *0.04* | *0* | *100* | *40 - 140* | *0.03999* | *0.412* | *50* | |
| *Surr: o-Terphenyl* | *0.04439* | *0* | *0.04* | *0* | *111* | *40 - 140* | *0.0443* | *0.205* | *50* | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525571 ( 0 )** **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MBLK** Sample ID: **MBLK-251103** Units: **mg/L** Analysis Date: **03-Nov-2025 18:34**
Client ID: Run ID: **FID-14_525571** SeqNo: **9120384** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.272* | *0.0100* | *0.25* | *0* | *109* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251103** Units: **mg/L** Analysis Date: **03-Nov-2025 17:17**
Client ID: Run ID: **FID-14_525571** SeqNo: **9120382** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.029 | 0.00500 | 0.025 | 0 | 116 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.264* | *0.0100* | *0.25* | *0* | *106* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251103** Units: **mg/L** Analysis Date: **03-Nov-2025 17:56**
Client ID: Run ID: **FID-14_525571** SeqNo: **9120383** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.025 | 0.00500 | 0.025 | 0 | 100 | 70 - 130 | 0.027 | 7.69 | 25 | |
| Aliphatics >C8 - C10 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | 0.029 | 7.14 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.252* | *0.0100* | *0.25* | *0* | *101* | *70 - 130* | *0.264* | *4.65* | *25* | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID:** R525574 ( 0 ) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251103** Units: **mg/L** Analysis Date: **03-Nov-2025 18:34**
Client ID: Run ID: **FID-15_525574** SeqNo: **9120427** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.272* | *0.0100* | *0.25* | *0* | *109* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251103** Units: **mg/L** Analysis Date: **03-Nov-2025 17:17**
Client ID: Run ID: **FID-15_525574** SeqNo: **9120425** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0864 | 0.0200 | 0.075 | 0 | 115 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.264* | *0.0100* | *0.25* | *0* | *106* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251103** Units: **mg/L** Analysis Date: **03-Nov-2025 17:56**
Client ID: Run ID: **FID-15_525574** SeqNo: **9120426** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0916 | 0.0200 | 0.075 | 0 | 122 | 70 - 130 | 0.0864 | 5.84 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.251* | *0.0100* | *0.25* | *0* | *100* | *70 - 130* | *0.264* | *5.05* | *25* | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: 235089 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-235089** Units: **mg/L** Analysis Date: **06-Nov-2025 11:14**
Client ID: Run ID: **ICPMS06_525754** SeqNo: **9125430** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | | |
| Barium | U | 0.00500 | | | | | | | | |
| Calcium | U | 0.500 | | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | | |
| Iron | U | 0.200 | | | | | | | | |
| Lead | U | 0.00200 | | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | | |
| Potassium | U | 0.500 | | | | | | | | |
| Sodium | U | 0.500 | | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | | |

**LCS** Sample ID: **LCS-235089** Units: **mg/L** Analysis Date: **06-Nov-2025 11:16**
Client ID: Run ID: **ICPMS06_525754** SeqNo: **9125431** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.04854 | 0.00200 | 0.05 | 0 | 97.1 | 80 - 120 | | | | |
| Barium | 0.04664 | 0.00500 | 0.05 | 0 | 93.3 | 80 - 120 | | | | |
| Calcium | 4.974 | 0.500 | 5 | 0 | 99.5 | 80 - 120 | | | | |
| Chromium | 0.04985 | 0.00500 | 0.05 | 0 | 99.7 | 80 - 120 | | | | |
| Iron | 4.953 | 0.200 | 5 | 0 | 99.1 | 80 - 120 | | | | |
| Lead | 0.04848 | 0.00200 | 0.05 | 0 | 97.0 | 80 - 120 | | | | |
| Magnesium | 4.957 | 0.200 | 5 | 0 | 99.1 | 80 - 120 | | | | |
| Manganese | 0.05018 | 0.00500 | 0.05 | 0 | 100 | 80 - 120 | | | | |
| Nickel | 0.04997 | 0.00500 | 0.05 | 0 | 99.9 | 80 - 120 | | | | |
| Potassium | 4.713 | 0.500 | 5 | 0 | 94.3 | 80 - 120 | | | | |
| Sodium | 4.975 | 0.500 | 5 | 0 | 99.5 | 80 - 120 | | | | |
| Strontium | 0.1013 | 0.00500 | 0.1 | 0 | 101 | 80 - 120 | | | | |
| Vanadium | 0.04964 | 0.00500 | 0.05 | 0 | 99.3 | 80 - 120 | | | | |
| Zinc | 0.05554 | 0.0100 | 0.05 | 0 | 111 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: 235089 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25101441-01MS** Units: **mg/L** Analysis Date: **06-Nov-2025 11:26**
Client ID: Run ID: **ICPMS06_525754** SeqNo: **9125435** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05207 | 0.00200 | 0.05 | 0.001203 | 102 | 80 - 120 | | | | |
| Barium | 0.0636 | 0.00500 | 0.05 | 0.01505 | 97.1 | 80 - 120 | | | | |
| Calcium | 52.53 | 0.500 | 5 | 46.95 | 112 | 80 - 120 | | | | O |
| Chromium | 0.05173 | 0.00500 | 0.05 | 0.001397 | 101 | 80 - 120 | | | | |
| Iron | 7.336 | 0.200 | 5 | 2.359 | 99.5 | 80 - 120 | | | | |
| Lead | 0.05048 | 0.00200 | 0.05 | 0.000503 | 100.0 | 80 - 120 | | | | |
| Magnesium | 37.83 | 0.200 | 5 | 31.67 | 123 | 80 - 120 | | | | SO |
| Manganese | 0.2143 | 0.00500 | 0.05 | 0.1599 | 109 | 80 - 120 | | | | |
| Nickel | 0.07838 | 0.00500 | 0.05 | 0.03682 | 83.1 | 80 - 120 | | | | |
| Potassium | 6.447 | 0.500 | 5 | 1.389 | 101 | 80 - 120 | | | | |
| Sodium | 299.9 | 0.500 | 5 | 286.7 | 263 | 80 - 120 | | | | SEO |
| Strontium | 0.5267 | 0.00500 | 0.1 | 0.4254 | 101 | 80 - 120 | | | | O |
| Vanadium | 0.05371 | 0.00500 | 0.05 | 0.000309 | 107 | 80 - 120 | | | | |
| Zinc | 0.0857 | 0.0100 | 0.05 | 0.03151 | 108 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101441-01MSD** Units: **mg/L** Analysis Date: **06-Nov-2025 11:28**
Client ID: Run ID: **ICPMS06_525754** SeqNo: **9125436** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05184 | 0.00200 | 0.05 | 0.001203 | 101 | 80 - 120 | 0.05207 | 0.439 | 20 | |
| Barium | 0.06304 | 0.00500 | 0.05 | 0.01505 | 96.0 | 80 - 120 | 0.0636 | 0.891 | 20 | |
| Calcium | 52.52 | 0.500 | 5 | 46.95 | 111 | 80 - 120 | 52.53 | 0.012 | 20 | O |
| Chromium | 0.05148 | 0.00500 | 0.05 | 0.001397 | 100 | 80 - 120 | 0.05173 | 0.475 | 20 | |
| Iron | 7.326 | 0.200 | 5 | 2.359 | 99.3 | 80 - 120 | 7.336 | 0.132 | 20 | |
| Lead | 0.0506 | 0.00200 | 0.05 | 0.000503 | 100 | 80 - 120 | 0.05048 | 0.245 | 20 | |
| Magnesium | 37.59 | 0.200 | 5 | 31.67 | 118 | 80 - 120 | 37.83 | 0.635 | 20 | O |
| Manganese | 0.209 | 0.00500 | 0.05 | 0.1599 | 98.2 | 80 - 120 | 0.2143 | 2.53 | 20 | |
| Nickel | 0.07951 | 0.00500 | 0.05 | 0.03682 | 85.4 | 80 - 120 | 0.07838 | 1.43 | 20 | |
| Potassium | 6.504 | 0.500 | 5 | 1.389 | 102 | 80 - 120 | 6.447 | 0.893 | 20 | |
| Sodium | 295.4 | 0.500 | 5 | 286.7 | 175 | 80 - 120 | 299.9 | 1.49 | 20 | SEO |
| Strontium | 0.5247 | 0.00500 | 0.1 | 0.4254 | 99.3 | 80 - 120 | 0.5267 | 0.381 | 20 | O |
| Vanadium | 0.05301 | 0.00500 | 0.05 | 0.000309 | 105 | 80 - 120 | 0.05371 | 1.32 | 20 | |
| Zinc | 0.08594 | 0.0100 | 0.05 | 0.03151 | 109 | 80 - 120 | 0.0857 | 0.271 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: 235089 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25101441-01PDS** Units: **mg/L** Analysis Date: **06-Nov-2025 11:30**
Client ID: Run ID: **ICPMS06_525754** SeqNo: **9125437** PrepDate: **03-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.1045 | 0.00200 | 0.1 | 0.001203 | 103 | 75 - 125 | | | | |
| Barium | 0.1101 | 0.00500 | 0.1 | 0.01505 | 95.0 | 75 - 125 | | | | |
| Calcium | 56.29 | 0.500 | 10 | 46.95 | 93.4 | 75 - 125 | | | | O |
| Chromium | 0.1025 | 0.00500 | 0.1 | 0.001397 | 101 | 75 - 125 | | | | |
| Iron | 12.44 | 0.200 | 10 | 2.359 | 101 | 75 - 125 | | | | |
| Lead | 0.1027 | 0.00200 | 0.1 | 0.000503 | 102 | 75 - 125 | | | | |
| Magnesium | 42.69 | 0.200 | 10 | 31.67 | 110 | 75 - 125 | | | | |
| Manganese | 0.2625 | 0.00500 | 0.1 | 0.1599 | 103 | 75 - 125 | | | | |
| Nickel | 0.1282 | 0.00500 | 0.1 | 0.03682 | 91.4 | 75 - 125 | | | | |
| Potassium | 11.54 | 0.500 | 10 | 1.389 | 102 | 75 - 125 | | | | |
| Vanadium | 0.1044 | 0.00500 | 0.1 | 0.000309 | 104 | 75 - 125 | | | | |
| Zinc | 0.1373 | 0.0100 | 0.1 | 0.03151 | 106 | 75 - 125 | | | | |

**PDS** Sample ID: **HS25101441-01PDS** Units: **mg/L** Analysis Date: **06-Nov-2025 13:23**
Client ID: Run ID: **ICPMS06_525754** SeqNo: **9125574** PrepDate: **03-Nov-2025** DF: **20**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 475.3 | 10.0 | 200 | 286.4 | 94.4 | 75 - 125 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: 235089 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**SD** Sample ID: **HS25101441-01SD** Units: **mg/L** Analysis Date: **06-Nov-2025 11:18**
Client ID: Run ID: **ICPMS06_525754** SeqNo: **9125432** PrepDate: **03-Nov-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.0100 | | | | | 0.001203 | 0 | 10 | |
| Barium | 0.01506 | 0.0250 | | | | | 0.01505 | 0 | 10 | J |
| Calcium | 48.4 | 2.50 | | | | | 46.95 | 3.09 | 10 | |
| Chromium | U | 0.0250 | | | | | 0.001397 | 0 | 10 | |
| Iron | 2.421 | 1.00 | | | | | 2.359 | 2.63 | 10 | |
| Lead | U | 0.0100 | | | | | 0.000503 | 0 | 10 | |
| Magnesium | 31.59 | 1.00 | | | | | 31.67 | 0.235 | 10 | |
| Manganese | 0.1651 | 0.0250 | | | | | 0.1599 | 3.27 | 10 | |
| Nickel | 0.03911 | 0.0250 | | | | | 0.03682 | 6.23 | 10 | |
| Potassium | 1.387 | 2.50 | | | | | 1.389 | 0 | 10 | J |
| Strontium | 0.4414 | 0.0250 | | | | | 0.4254 | 3.75 | 10 | |
| Vanadium | U | 0.0250 | | | | | 0.000309 | 0 | 10 | |
| Zinc | 0.03382 | 0.0500 | | | | | 0.03151 | 0 | 10 | J |

**SD** Sample ID: **HS25101441-01SD** Units: **mg/L** Analysis Date: **06-Nov-2025 13:21**
Client ID: Run ID: **ICPMS06_525754** SeqNo: **9125573** PrepDate: **03-Nov-2025** DF: **100**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 291.7 | 50.0 | | | | | 286.4 | 1.85 | 10 | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: 235197 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLKF1-235188** Units: **mg/L** Analysis Date: **05-Nov-2025 14:02**
Client ID: Run ID: **HG05_525695** SeqNo: **9123571** PrepDate: **05-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000074 | 0.000200 | | | | | | | | J |

**MBLK** Sample ID: **MBLK-235197** Units: **mg/L** Analysis Date: **05-Nov-2025 12:55**
Client ID: Run ID: **HG05_525695** SeqNo: **9123569** PrepDate: **05-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000067 | 0.000200 | | | | | | | | J |

**LCS** Sample ID: **LCS-235197** Units: **mg/L** Analysis Date: **05-Nov-2025 12:59**
Client ID: Run ID: **HG05_525695** SeqNo: **9123570** PrepDate: **05-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00531 | 0.000200 | 0.005 | 0 | 106 | 80 - 120 | | | | |

**MS** Sample ID: **HS25101444-10MS** Units: **mg/L** Analysis Date: **05-Nov-2025 13:10**
Client ID: Run ID: **HG05_525695** SeqNo: **9123539** PrepDate: **05-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00552 | 0.000200 | 0.005 | 0.000276 | 105 | 75 - 125 | | | | |

**MSD** Sample ID: **HS25101444-10MSD** Units: **mg/L** Analysis Date: **05-Nov-2025 13:11**
Client ID: Run ID: **HG05_525695** SeqNo: **9123540** PrepDate: **05-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00553 | 0.000200 | 0.005 | 0.000276 | 105 | 75 - 125 | 0.00552 | 0.181 | 20 | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525609 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251103** Units: **mg/L** Analysis Date: **04-Nov-2025 10:25**
Client ID: Run ID: **VOA13_525609** SeqNo: **9121344** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.053* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.050* | *0.0010* | *0.05* | *0* | *99.6* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *97.3* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **04-Nov-2025 09:16**
Client ID: Run ID: **VOA13_525609** SeqNo: **9121353** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.022 | 0.0010 | 0.02 | 0 | 109 | 74 - 120 | | | | |
| Ethylbenzene | 0.023 | 0.0020 | 0.02 | 0 | 114 | 77 - 117 | | | | |
| m,p-Xylene | 0.047 | 0.0040 | 0.04 | 0 | 116 | 77 - 122 | | | | |
| o-Xylene | 0.023 | 0.0020 | 0.02 | 0 | 116 | 75 - 119 | | | | |
| Toluene | 0.022 | 0.0020 | 0.02 | 0 | 111 | 77 - 118 | | | | |
| Xylenes, Total | 0.070 | 0.0060 | 0.06 | 0 | 116 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.049* | *0.0010* | *0.05* | *0* | *97.2* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.050* | *0.0010* | *0.05* | *0* | *100* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.047* | *0.0010* | *0.05* | *0* | *93.5* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *99.2* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525609 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD** Units: **mg/L** Analysis Date: **04-Nov-2025 09:39**
Client ID: Run ID: **VOA13_525609** SeqNo: **9121354** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.022 | 0.0010 | 0.02 | 0 | 111 | 74 - 120 | 0.02182 | 1.35 | 20 | |
| Ethylbenzene | 0.023 | 0.0020 | 0.02 | 0 | 115 | 77 - 117 | 0.02290 | 0.77 | 20 | |
| m,p-Xylene | 0.046 | 0.0040 | 0.04 | 0 | 116 | 77 - 122 | 0.04656 | 0.234 | 20 | |
| o-Xylene | 0.024 | 0.0020 | 0.02 | 0 | 118 | 75 - 119 | 0.02330 | 1.25 | 20 | |
| Toluene | 0.022 | 0.0020 | 0.02 | 0 | 111 | 77 - 118 | 0.02213 | 0.577 | 20 | |
| Xylenes, Total | 0.070 | 0.0060 | 0.06 | 0 | 117 | 75 - 122 | 0.06986 | 0.264 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.049* | *0.0010* | *0.05* | *0* | *97.2* | *70 - 123* | *0.04862* | *0.0885* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *101* | *77 - 113* | *0.05022* | *1* | *20* | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.7* | *73 - 126* | *0.04673* | *4.43* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.9* | *81 - 120* | *0.04958* | *0.256* | *20* | |

**MS** Sample ID: **HS25101452-01MS** Units: **mg/L** Analysis Date: **04-Nov-2025 18:29**
Client ID: Run ID: **VOA13_525609** SeqNo: **9122496** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.022 | 0.0010 | 0.02 | 0 | 112 | 70 - 127 | | | | |
| Ethylbenzene | 0.022 | 0.0020 | 0.02 | 0 | 112 | 70 - 124 | | | | |
| m,p-Xylene | 0.046 | 0.0040 | 0.04 | 0 | 115 | 70 - 130 | | | | |
| o-Xylene | 0.023 | 0.0020 | 0.02 | 0 | 114 | 70 - 124 | | | | |
| Toluene | 0.022 | 0.0020 | 0.02 | 0 | 112 | 70 - 123 | | | | |
| Xylenes, Total | 0.069 | 0.0060 | 0.06 | 0 | 115 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.049* | *0.0010* | *0.05* | *0* | *98.3* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *101* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *99.4* | *82 - 127* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525609 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MSD** Sample ID: **HS25101452-01MSD** Units: **mg/L** Analysis Date: **04-Nov-2025 18:52**
Client ID: Run ID: **VOA13_525609** SeqNo: **9122497** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.017 | 0.0010 | 0.02 | 0 | 86.6 | 70 - 127 | 0.02240 | 25.6 | 20 | R |
| Ethylbenzene | 0.017 | 0.0020 | 0.02 | 0 | 85.3 | 70 - 124 | 0.02248 | 27.4 | 20 | R |
| m,p-Xylene | 0.034 | 0.0040 | 0.04 | 0 | 84.1 | 70 - 130 | 0.04604 | 31.1 | 20 | R |
| o-Xylene | 0.017 | 0.0020 | 0.02 | 0 | 82.9 | 70 - 124 | 0.02286 | 31.9 | 20 | R |
| Toluene | 0.017 | 0.0020 | 0.02 | 0 | 84.9 | 70 - 123 | 0.02249 | 27.9 | 20 | R |
| Xylenes, Total | 0.050 | 0.0060 | 0.06 | 0 | 83.7 | 70 - 130 | 0.06890 | 31.4 | 20 | R |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *100.0* | *70 - 126* | *0.04913* | *1.74* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.050* | *0.0010* | *0.05* | *0* | *99.9* | *77 - 113* | *0.05061* | *1.35* | *20* | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *98.5* | *77 - 123* | *0.05112* | *3.72* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.6* | *82 - 127* | *0.04971* | *0.79* | *20* | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525744 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-25105** Units: **mg/L** Analysis Date: **05-Nov-2025 21:11**
Client ID: Run ID: **VOA7_525744** SeqNo: **9124843** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.048* | *0.0010* | *0.05* | *0* | *95.3* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *103* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *96.5* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.051* | *0.0010* | *0.05* | *0* | *101* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS-251105** Units: **mg/L** Analysis Date: **05-Nov-2025 20:06**
Client ID: Run ID: **VOA7_525744** SeqNo: **9124841** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 104 | 74 - 120 | | | | |
| Ethylbenzene | 0.023 | 0.0020 | 0.02 | 0 | 115 | 77 - 117 | | | | |
| m,p-Xylene | 0.045 | 0.0040 | 0.04 | 0 | 114 | 77 - 122 | | | | |
| o-Xylene | 0.023 | 0.0020 | 0.02 | 0 | 115 | 75 - 119 | | | | |
| Toluene | 0.022 | 0.0020 | 0.02 | 0 | 112 | 77 - 118 | | | | |
| Xylenes, Total | 0.068 | 0.0060 | 0.06 | 0 | 114 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.047* | *0.0010* | *0.05* | *0* | *94.3* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.048* | *0.0010* | *0.05* | *0* | *95.6* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.047* | *0.0010* | *0.05* | *0* | *93.6* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.051* | *0.0010* | *0.05* | *0* | *103* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525744 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD-251105** Units: **mg/L** Analysis Date: **05-Nov-2025 20:28**
Client ID: Run ID: **VOA7_525744** SeqNo: **9124842** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 106 | 74 - 120 | 0.02084 | 2.17 | 20 | |
| Ethylbenzene | 0.022 | 0.0020 | 0.02 | 0 | 110 | 77 - 117 | 0.02291 | 4.21 | 20 | |
| m,p-Xylene | 0.043 | 0.0040 | 0.04 | 0 | 109 | 77 - 122 | 0.04540 | 4.51 | 20 | |
| o-Xylene | 0.022 | 0.0020 | 0.02 | 0 | 109 | 75 - 119 | 0.02299 | 5 | 20 | |
| Toluene | 0.021 | 0.0020 | 0.02 | 0 | 106 | 77 - 118 | 0.02235 | 5.09 | 20 | |
| Xylenes, Total | 0.065 | 0.0060 | 0.06 | 0 | 109 | 75 - 122 | 0.06840 | 4.68 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.048* | *0.0010* | *0.05* | *0* | *96.5* | *70 - 123* | *0.04713* | *2.36* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.048* | *0.0010* | *0.05* | *0* | *95.5* | *77 - 113* | *0.04782* | *0.1* | *20* | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *95.5* | *73 - 126* | *0.04682* | *1.99* | *20* | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *99.2* | *81 - 120* | *0.05146* | *3.68* | *20* | |

**MS** Sample ID: **HS25101553-02MS** Units: **mg/L** Analysis Date: **06-Nov-2025 04:45**
Client ID: Run ID: **VOA7_525744** SeqNo: **9124859** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.019 | 0.0010 | 0.02 | 0 | 93.4 | 70 - 127 | | | | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 99.6 | 70 - 124 | | | | |
| m,p-Xylene | 0.040 | 0.0040 | 0.04 | 0 | 99.6 | 70 - 130 | | | | |
| o-Xylene | 0.020 | 0.0020 | 0.02 | 0 | 100 | 70 - 124 | | | | |
| Toluene | 0.019 | 0.0020 | 0.02 | 0 | 97.2 | 70 - 123 | | | | |
| Xylenes, Total | 0.060 | 0.0060 | 0.06 | 0 | 99.8 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.046* | *0.0010* | *0.05* | *0* | *91.2* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.048* | *0.0010* | *0.05* | *0* | *96.4* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.047* | *0.0010* | *0.05* | *0* | *94.8* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *82 - 127* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525744 ( 0 )** **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MSD** Sample ID: **HS25101553-02MSD** Units: **mg/L** Analysis Date: **06-Nov-2025 05:07**
Client ID: Run ID: **VOA7_525744** SeqNo: **9124860** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.019 | 0.0010 | 0.02 | 0 | 92.7 | 70 - 127 | 0.01868 | 0.811 | 20 | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 97.5 | 70 - 124 | 0.01992 | 2.16 | 20 | |
| m,p-Xylene | 0.038 | 0.0040 | 0.04 | 0 | 95.3 | 70 - 130 | 0.03982 | 4.37 | 20 | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0 | 96.2 | 70 - 124 | 0.02005 | 4.11 | 20 | |
| Toluene | 0.019 | 0.0020 | 0.02 | 0 | 92.8 | 70 - 123 | 0.01944 | 4.7 | 20 | |
| Xylenes, Total | 0.057 | 0.0060 | 0.06 | 0 | 95.6 | 70 - 130 | 0.05987 | 4.28 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.046* | *0.0010* | *0.05* | *0* | *92.7* | *70 - 126* | *0.04562* | *1.6* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.048* | *0.0010* | *0.05* | *0* | *96.0* | *77 - 113* | *0.04822* | *0.482* | *20* | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *96.6* | *77 - 123* | *0.04741* | *1.89* | *20* | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *99.9* | *82 - 127* | *0.05160* | *3.22* | *20* | |

**The following samples were analyzed in this batch:** HS25101569-05 HS25101569-06



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525421 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-10.31.2025** Units: **mg/L** Analysis Date: **31-Oct-2025 21:44**
Client ID: Run ID: **Skalar 03_525421** SeqNo: **9116625** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-10.31.2025** Units: **mg/L** Analysis Date: **31-Oct-2025 21:51**
Client ID: Run ID: **Skalar 03_525421** SeqNo: **9116626** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 994 | 5.00 | 1000 | 0 | 99.4 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-10.31.2025** Units: **mg/L** Analysis Date: **31-Oct-2025 21:57**
Client ID: Run ID: **Skalar 03_525421** SeqNo: **9116627** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 992.8 | 5.00 | 1000 | 0 | 99.3 | 85 - 115 | 994 | 0.121 | 20 | |

**DUP** Sample ID: **HS25101569-02DUP** Units: **mg/L** Analysis Date: **31-Oct-2025 22:19**
Client ID: **019-580** Run ID: **Skalar 03_525421** SeqNo: **9116621** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | 121.5 | 5.00 | | | | | 121.3 | 0.165 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | 0 | 0 | 20 | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID:** **R525422 ( 0 )** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

**DUP** Sample ID: **HS25101569-02DUP** Units: **pH Units** Analysis Date: **31-Oct-2025 22:19**
Client ID: **019-580** Run ID: **Skalar 03_525422** SeqNo: **9116630** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.24 | 1.00 | | | | | 7.2 | 0.554 | 10 | |
| Temp Deg C @pH | 22.5 | 0 | | | | | 22.5 | 0 | 10 | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525471 ( 0 )** **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

**MBLK** Sample ID: **MBLK-R525471** Units: **mg/L** Analysis Date: **31-Oct-2025 11:30**
Client ID: Run ID: **WetChem_HS_525471** SeqNo: **9117893** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R525471** Units: **mg/L** Analysis Date: **31-Oct-2025 11:30**
Client ID: Run ID: **WetChem_HS_525471** SeqNo: **9117892** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.72 | 5.00 | 25 | 0 | 90.9 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-R525471** Units: **mg/L** Analysis Date: **31-Oct-2025 11:30**
Client ID: Run ID: **WetChem_HS_525471** SeqNo: **9117891** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.52 | 5.00 | 25 | 0 | 90.1 | 85 - 115 | 22.72 | 0.884 | 20 | |

**MS** Sample ID: **HS25101569-01MS** Units: **mg/L** Analysis Date: **31-Oct-2025 11:30**
Client ID: **019-995** Run ID: **WetChem_HS_525471** SeqNo: **9117894** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 21.92 | 5.00 | 25 | -1.48 | 93.6 | 80 - 120 | | | | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525524 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-11032025** Units: **mg/L** Analysis Date: **03-Nov-2025 10:00**
Client ID: Run ID: **Balance1_525524** SeqNo: **9119088** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-11032025** Units: **mg/L** Analysis Date: **03-Nov-2025 10:00**
Client ID: Run ID: **Balance1_525524** SeqNo: **9119087** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1014 | 10.0 | 1000 | 0 | 101 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25101569-02DUP** Units: **mg/L** Analysis Date: **03-Nov-2025 10:00**
Client ID: **019-580** Run ID: **Balance1_525524** SeqNo: **9119072** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 192 | 10.0 | | | | | 194 | 1.04 | 20 | |

**DUP** Sample ID: **HS25101452-06DUP** Units: **mg/L** Analysis Date: **03-Nov-2025 10:00**
Client ID: Run ID: **Balance1_525524** SeqNo: **9119066** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1344 | 10.0 | | | | | 1348 | 0.297 | 20 | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525566 ( 0 )** **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

**MBLK** Sample ID: **MBLK-R525566** Units: **mg/L** Analysis Date: **31-Oct-2025 11:30**
Client ID: Run ID: **WetChem_HS_525566** SeqNo: **9120328** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | U | 1.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R525566** Units: **mg/L** Analysis Date: **31-Oct-2025 11:30**
Client ID: Run ID: **WetChem_HS_525566** SeqNo: **9120327** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.14 | 1.00 | 26.56 | 0 | 90.9 | 80 - 120 | | | | |

**LCSD** Sample ID: **LCSD-R525566** Units: **mg/L** Analysis Date: **31-Oct-2025 11:30**
Client ID: Run ID: **WetChem_HS_525566** SeqNo: **9120326** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 23.93 | 1.00 | 26.56 | 0 | 90.1 | 80 - 120 | 24.14 | 0.884 | 20 | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525602 ( 0 )** **Instrument: ICS-04** **Method: ANIONS BY SW9056A**

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **03-Nov-2025 10:34**
Client ID: Run ID: **ICS-04_525602** SeqNo: **9121169** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | 0.100 | | | | | | | | |
| Chloride | U | 0.500 | | | | | | | | |
| Sulfate | U | 0.500 | | | | | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **03-Nov-2025 09:24**
Client ID: Run ID: **ICS-04_525602** SeqNo: **9121157** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 3.812 | 0.100 | 4 | 0 | 95.3 | 80 - 120 | | | | |
| Chloride | 20.68 | 0.500 | 20 | 0 | 103 | 80 - 120 | | | | |
| Sulfate | 20.74 | 0.500 | 20 | 0 | 104 | 80 - 120 | | | | |

**MS** Sample ID: **HS25101238-16MS** Units: **mg/L** Analysis Date: **03-Nov-2025 10:05**
Client ID: Run ID: **ICS-04_525602** SeqNo: **9121164** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 17.4 | 1.00 | 20 | 0.709 | 83.5 | 80 - 120 | | | | |
| Chloride | 246.4 | 5.00 | 100 | 146.1 | 100 | 80 - 120 | | | | |
| Sulfate | 99.69 | 5.00 | 100 | 6.258 | 93.4 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25101238-16MSD** Units: **mg/L** Analysis Date: **03-Nov-2025 10:11**
Client ID: Run ID: **ICS-04_525602** SeqNo: **9121165** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 17.31 | 1.00 | 20 | 0.709 | 83.0 | 80 - 120 | 17.4 | 0.547 | 20 | |
| Chloride | 245.1 | 5.00 | 100 | 146.1 | 99.0 | 80 - 120 | 246.4 | 0.513 | 20 | |
| Sulfate | 98.88 | 5.00 | 100 | 6.258 | 92.6 | 80 - 120 | 99.69 | 0.82 | 20 | |

**The following samples were analyzed in this batch:** HS25101569-01 HS25101569-02 HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25101569

**QC BATCH REPORT**

**Batch ID: R525681 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-11042025** Units: **mg/L** Analysis Date: **04-Nov-2025 14:00**
Client ID: Run ID: **Balance1_525681** SeqNo: **9123300** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-11042025** Units: **mg/L** Analysis Date: **04-Nov-2025 14:00**
Client ID: Run ID: **Balance1_525681** SeqNo: **9123299** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1018 | 10.0 | 1000 | 0 | 102 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25110044-01DUP** Units: **mg/L** Analysis Date: **04-Nov-2025 14:00**
Client ID: Run ID: **Balance1_525681** SeqNo: **9123289** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1776 | 10.0 | | | | | 1676 | 5.79 | 20 | |

**DUP** Sample ID: **HS25101613-02DUP** Units: **mg/L** Analysis Date: **04-Nov-2025 14:00**
Client ID: Run ID: **Balance1_525681** SeqNo: **9123287** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 892 | 10.0 | | | | | 862 | 3.42 | 20 | |

**The following samples were analyzed in this batch:** HS25101569-03 HS25101569-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** **HS25101569**

**QUALIFIERS, ACRONYMS, UNITS**

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| M | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL/SDL |

| Acronym | Description |
|---|---|
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |
| SDL | Sample Detection Limit |
| TRRP | Texas Risk Reduction Program |

| Unit Reported | Description |
|---|---|
| mg/L | Milligrams per Liter |



RIGHT SOLUTIONS | RIGHT PARTNER

## CERTIFICATIONS,ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|---|---|---|
| Arizona | AZ0793 | 27-May-2026 |
| Arkansas | 88-00356_2024 | 17-Mar-2026 |
| California | 2919 - 2025 | 30-Apr-2026 |
| Dept of Defense | L24-239 | 30-Apr-2026 |
| Dept of Defense | L24-240 | 30-Apr-2026 |
| Florida | E87611-2025 | 30-Jun-2026 |
| Illinois | 200032 - 2025 | 31-Jul-2026 |
| Kansas | KS-C25-00168 | 31-Jul-2026 |
| Kentucky | 123043-2025 | 30-Apr-2026 |
| Louisiana | 03087-2025 | 30-Jun-2026 |
| Maine | 2024017 | 23-Jun-2026 |
| Michigan | 9971-2025 | 30-Apr-2026 |
| Minnesota | 2856348 | 31-Dec-2025 |
| Missouri | 136 | 30-Sep-2026 |
| Nebraska | NE-OS-25-13 - 2025 | 30-Apr-2026 |
| Nevada | NV-C25-00124 - 2025 | 31-Jul-2026 |
| New Hampshire | 209425 | 24-Apr-2026 |
| New Jersey | TX008-2025 | 30-Jun-2026 |
| New York | 11707 - 2025 | 01-Apr-2026 |
| North Carolina | 624 - 2024 | 31-Dec-2025 |
| Oregon | TX200002-013 | 15-May-2026 |
| Pennsylvania | 019 | 01-Jul-2026 |
| Tennessee | TN | 30-Apr-2026 |
| Texas | TX-C25-00104 | 30-Apr-2026 |



RIGHT SOLUTIONS | RIGHT PARTNER

## Sample Receipt Checklist

**Work Order ID:** HS25101569 **Date/Time Received:** **30-Oct-2025 16:00**

**Client Name:** ERMSW-HOU **Received by:** **Si Ma**

| **Completed By:** | /S/ Si Ma | 30-Oct-2025 19:40 | **Reviewed by:** | /S/ Beverly Mustafa | 31-Oct-2025 09:05 |
|---|---|---|---|---|---|
| | eSignature | Date/Time | | eSignature | Date/Time |

Matrices: **WATER** Carrier name: **Client**

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | 1 Page(s) |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | COC IDs:345392 |
| Samplers name present on COC? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |
| Temperature(s)/Thermometer(s): | 1.9UC/1.9C , 2.3UC/2.3C | IR37 | |
| Cooler(s)/Kit(s): | 54129 / 54545 | | |
| Date/Time sample(s) sent to storage: | 10/30/2025 19:41 | | |
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

# Chain of Custody Form

Page 1 of 1

COC ID: 345392

**HS25101569**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | |
|---|---|---|---|
| Purchase Order | 0777906 | Project Name | Sulphur Dome |
| Work Order | | Project Number | |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com |

| | |
|---|---|
| A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| B | ICP-As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| C | HG_W (Mercury) |
| D | MA EPH_W_La (MA EPH) |
| E | MA VPH_LA_W |
| F | 9056_anions_W (Cl,SO4,Br) / pH |
| G | ALK_W 2320B (carb, bicarb) |
| H | H2S_W (H2S) |
| I | SULFD_4500S F (Sulfide) |
| J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 019-995 | 10/30/25 | 1045 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | 019-580 | 10/30/25 | 1105 | W | 1,2,4,8 | 11 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 3 | 019-582 | ↓ | 1130 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 4 | ~~019-995~~ FB-103025 | ↓ | 1135 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | CG-100125-381 | — | — | W | 1 | 2 | X | | | | | | | | | | |
| 10 | CG-100125-372 | — | — | W | 1 | 2 | X | | | | | | | | | | |

Sampler(s) Please Print & Sign: Taylar Brown

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

| | | | | |
|---|---|---|---|---|
| Relinquished by: Zedric Capus | Date: 10/30/25 | Time: 1600 | Received by: | Notes: ERM Sulphur Dome |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 10/30/25 16:00 | |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | |

| Cooler ID | Cooler Temp. |
|---|---|
| 54129 | 1.9 4°C |
| 54545 | 2.3 |

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SVM846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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JR n 37
CFO.0



RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

December 03, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25110862**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 20 sample(s) on Nov 19, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

**Generated By: ALEXIS.DORENBOSCH**
Alexis Dorenbosch
Project Manager

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**Work Order:** HS25110862

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS25110862-01 | LDNR-24 | GW | | 17-Nov-2025 11:45 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-02 | LDNR-04 | GW | | 17-Nov-2025 12:15 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-03 | LDNR-26 | GW | | 17-Nov-2025 12:45 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-04 | MW-1-200 | Water | | 17-Nov-2025 16:05 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-05 | FB-111725 | Water | | 17-Nov-2025 16:00 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-06 | MW-3-500 | Water | | 18-Nov-2025 09:30 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-07 | FB-111825 | Water | | 18-Nov-2025 09:00 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-08 | MW-3-200 | Water | | 18-Nov-2025 11:10 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-09 | MW-3-700 | Water | | 18-Nov-2025 19:10 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-10 | Cottages | Water | | 18-Nov-2025 15:00 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-11 | CG-103025-273 | Water | CG-103025-273 | 18-Nov-2025 00:00 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-12 | CG-100125-375 | Water | CG-100125-375 | 18-Nov-2025 00:00 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-13 | CG-103025-289 | Water | CG-103025-289 | 18-Nov-2025 00:00 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-14 | CG-103025-276 | Water | CG-103025-276 | 18-Nov-2025 00:00 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-15 | CG-103025-272 | Water | CG-103025-272 | 18-Nov-2025 00:00 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-16 | 019-580 | Water | | 18-Nov-2025 15:30 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-17 | GW-Rinsate | Water | | 18-Nov-2025 14:30 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-18 | 019-995 | Water | | 18-Nov-2025 15:50 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-19 | FB-111925 | Water | | 19-Nov-2025 08:15 | 19-Nov-2025 12:47 | ☐ |
| HS25110862-20 | MW-1-500 | Water | | 19-Nov-2025 08:45 | 19-Nov-2025 12:47 | ☐ |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25110862

## Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

## Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

## GC Semivolatiles by Method MA EPH

### Batch ID: 235895

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GC Volatile Organics by Method MA VPH

### Batch ID: R527364

**Sample ID: LCSD-251126**

• The RPD between the LCS and LCSD was outside of the control limit.

## GC Volatiles by Method MA VPH

### Batch ID: R526977,R526988,R527358,R527364

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GCMS Volatiles by Method SW8260

### Batch ID: R526971

**Sample ID: MW-1-200 (HS25110862-04)**

• Surrogate Toulene-d8 is exceeded %recovery limits. Associated analytes are ND.

**Sample ID: MW-1-500 (HS25110862-20MS)**

• The RPD between the MS and MSD was outside of the control limit.

## Metals by Method SW7470A

### Batch ID: 236172

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

### Batch ID: 236170

**Sample ID: HS25110962-07MS**

• MS and MSD are for an unrelated sample



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25110862

## Metals by Method SW6020A

### Batch ID: 236165

**Sample ID: HS25111051-02MS**

• MS and MSD are for an unrelated sample

### Batch ID: 236117

**Sample ID: HS25110720-16MS**

• MS and MSD are for an unrelated sample

**Sample ID: HS25110720-16PDS**

• PDS is for an unrelated sample

## WetChemistry by Method SM4500H+ B

### Batch ID: R526826

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method SW9056

### Batch ID: R527073

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

### Batch ID: R526952

**Sample ID: MW-3-700 (HS25110862-09)**

• The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Sulfate)

## WetChemistry by Method M2540C

### Batch ID: R526889,R526890,R527039,R527040,R527149

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method SM2320B

### Batch ID: R526824

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method E376.1

### Batch ID: R526820

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method SM4500 S2-F

### Batch ID: R526819

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-24
Collection Date: 17-Nov-2025 11:45

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-01
Matrix:GW

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| **Benzene** | **0.00084** | J | **0.00028** | **0.0010** | **mg/L** | 1 | 21-Nov-2025 21:04 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 21:04 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 21:04 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 21:04 |
| **Toluene** | **0.0020** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 21-Nov-2025 21:04 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 21:04 |
| *Surr: 1,2-Dichloroethane-d4* | *79.5* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 21:04* |
| *Surr: 4-Bromofluorobenzene* | *92.4* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 21:04* |
| *Surr: Dibromofluoromethane* | *90.8* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 21:04* |
| *Surr: Toluene-d8* | *105* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 21:04* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| **Aliphatics >C6 - C8** | **0.0600** | | **0.00180** | **0.00500** | **mg/L** | 1 | 21-Nov-2025 20:47 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 21-Nov-2025 20:47 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 21-Nov-2025 20:47 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *89.2* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 20:47* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *89.2* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 20:47* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:30 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:30 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:30 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:30 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:30 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:30 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:30 |
| *Surr: 1-Chlorooctadecane* | *72.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 08:30* |
| *Surr: 2-Bromonaphthalene* | *83.2* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 08:30* |
| *Surr: 2-Fluorobiphenyl* | *91.3* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 08:30* |
| *Surr: o-Terphenyl* | *78.6* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 08:30* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-24
Collection Date: 17-Nov-2025 11:45

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-01
Matrix:GW

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| **Arsenic** | **0.00255** | | **0.000510** | **0.00200** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| **Barium** | **0.353** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| **Calcium** | **79.4** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 13:54 |
| **Iron** | **0.125** | J | **0.0600** | **0.200** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| **Lead** | **0.000637** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| **Magnesium** | **16.5** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| **Manganese** | **1.12** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 13:54 |
| **Potassium** | **3.03** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| **Sodium** | **222** | | **13.0** | **50.0** | **mg/L** | 100 | 02-Dec-2025 13:57 |
| **Strontium** | **0.624** | | **0.000300** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| **Vanadium** | **0.00279** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| **Zinc** | **0.00586** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 02-Dec-2025 13:54 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 18:18 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **884** | | **3.00** | **10.0** | **mg/L** | 1 | 21-Nov-2025 07:40 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **194** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 16:38 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 16:38 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.57** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.1** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0872** | J | **0.0300** | **0.100** | **mg/L** | 1 | 20-Nov-2025 15:23 |
| **Chloride** | **350** | | **2.00** | **5.00** | **mg/L** | 10 | 20-Nov-2025 15:32 |
| **Sulfate** | **55.4** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 15:23 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-04
Collection Date: 17-Nov-2025 12:15

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-02
Matrix:GW

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 18:38 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 18:38 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 18:38 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 18:38 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 18:38 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 18:38 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 18:38* |
| *Surr: 4-Bromofluorobenzene* | *108* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 18:38* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 18:38* |
| *Surr: Toluene-d8* | *101* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 18:38* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 21-Nov-2025 21:26 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 21-Nov-2025 21:26 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 21-Nov-2025 21:26 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *89.2* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 21:26* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *89.2* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 21:26* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:59 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:59 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:59 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:59 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:59 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:59 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 08:59 |
| *Surr: 1-Chlorooctadecane* | *68.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 08:59* |
| *Surr: 2-Bromonaphthalene* | *91.8* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 08:59* |
| *Surr: 2-Fluorobiphenyl* | *91.4* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 08:59* |
| *Surr: o-Terphenyl* | *95.1* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 08:59* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-04
Collection Date: 17-Nov-2025 12:15

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-02
Matrix:GW

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| **Arsenic** | **0.00168** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 02-Dec-2025 14:06 |
| **Barium** | **0.606** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:06 |
| **Calcium** | **87.8** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:06 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:06 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 02-Dec-2025 14:06 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:06 |
| **Magnesium** | **17.9** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:06 |
| **Manganese** | **0.403** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:06 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:06 |
| **Potassium** | **2.56** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:06 |
| **Sodium** | **221** | | **13.0** | **50.0** | **mg/L** | 100 | 02-Dec-2025 14:53 |
| **Strontium** | **0.687** | | **0.000300** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:06 |
| **Vanadium** | **0.00509** | | **0.000600** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:06 |
| **Zinc** | **0.00714** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 02-Dec-2025 14:06 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 18:25 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **968** | | **3.00** | **10.0** | **mg/L** | 1 | 21-Nov-2025 07:40 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **208** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 16:56 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 16:56 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.80** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.2** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 16:00 |
| **Chloride** | **351** | | **2.00** | **5.00** | **mg/L** | 10 | 24-Nov-2025 13:48 |
| **Sulfate** | **56.6** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 16:00 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-26
Collection Date: 17-Nov-2025 12:45

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-03
Matrix:GW

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 18:59 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 18:59 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 18:59 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 18:59 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 18:59 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 18:59 |
| *Surr: 1,2-Dichloroethane-d4* | *99.1* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 18:59* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 18:59* |
| *Surr: Dibromofluoromethane* | *100* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 18:59* |
| *Surr: Toluene-d8* | *95.4* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 18:59* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 21-Nov-2025 22:04 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 21-Nov-2025 22:04 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 21-Nov-2025 22:04 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *98.4* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 22:04* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *98.4* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 22:04* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:28 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:28 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:28 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:28 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:28 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:28 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:28 |
| *Surr: 1-Chlorooctadecane* | *57.4* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 09:28* |
| *Surr: 2-Bromonaphthalene* | *95.6* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 09:28* |
| *Surr: 2-Fluorobiphenyl* | *95.1* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 09:28* |
| *Surr: o-Terphenyl* | *81.2* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 09:28* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-26
Collection Date: 17-Nov-2025 12:45

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-03
Matrix:GW

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| **Arsenic** | **0.00172** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| **Barium** | **0.409** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| **Calcium** | **9.01** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:09 |
| **Iron** | **0.144** | J | **0.0600** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:09 |
| **Magnesium** | **1.67** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| **Manganese** | **0.0448** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:09 |
| **Potassium** | **1.34** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| **Sodium** | **31.8** | | **0.130** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| **Strontium** | **0.139** | | **0.000300** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| **Vanadium** | **0.00105** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| **Zinc** | **0.00327** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 02-Dec-2025 14:09 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 18:27 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **47.0** | | **3.00** | **10.0** | **mg/L** | 1 | 21-Nov-2025 07:40 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **42.7** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:06 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 17:06 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.92** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **20.8** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 16:13 |
| **Chloride** | **37.3** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 16:13 |
| **Sulfate** | **16.6** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 16:13 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 17-Nov-2025 16:05

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 19:20 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 19:20 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 19:20 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 19:20 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 19:20 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 19:20 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 19:20* |
| *Surr: 4-Bromofluorobenzene* | *92.9* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 19:20* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 19:20* |
| *Surr: Toluene-d8* | *130* | *S* | | *82-127* | *%REC* | *1* | *21-Nov-2025 19:20* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 21-Nov-2025 22:43 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 21-Nov-2025 22:43 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 21-Nov-2025 22:43 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *93.6* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 22:43* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *93.6* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 22:43* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:56 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:56 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:56 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:56 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:56 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:56 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 09:56 |
| *Surr: 1-Chlorooctadecane* | *61.5* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 09:56* |
| *Surr: 2-Bromonaphthalene* | *96.3* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 09:56* |
| *Surr: 2-Fluorobiphenyl* | *95.8* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 09:56* |
| *Surr: o-Terphenyl* | *88.2* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 09:56* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 17-Nov-2025 16:05

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| **Arsenic** | **0.00802** | | **0.000510** | **0.00200** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| **Barium** | **0.282** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| **Calcium** | **19.8** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:11 |
| **Iron** | **0.220** | | **0.0600** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:11 |
| **Magnesium** | **9.52** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| **Manganese** | **0.0581** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:11 |
| **Potassium** | **2.00** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| **Sodium** | **94.8** | | **0.130** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| **Strontium** | **0.288** | | **0.000300** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:11 |
| **Zinc** | **0.0434** | | **0.00300** | **0.0100** | **mg/L** | 1 | 02-Dec-2025 14:11 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 18:29 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **358** | | **3.00** | **10.0** | **mg/L** | 1 | 21-Nov-2025 07:40 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **242** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:12 |
| **Alkalinity, Carbonate (As CaCO3)** | **13.0** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:12 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.52** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **20.7** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 16:22 |
| **Chloride** | **37.1** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 16:22 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 20-Nov-2025 16:22 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-111725
Collection Date: 17-Nov-2025 16:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 15:50 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 15:50 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 15:50 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 15:50 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 15:50 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 15:50 |
| *Surr: 1,2-Dichloroethane-d4* | *79.4* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 15:50* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 15:50* |
| *Surr: Dibromofluoromethane* | *89.3* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 15:50* |
| *Surr: Toluene-d8* | *83.5* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 15:50* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 21-Nov-2025 18:51 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 21-Nov-2025 18:51 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 21-Nov-2025 18:51 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *103* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 18:51* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *97.6* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 18:51* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 10:25 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 10:25 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 10:25 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 10:25 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 10:25 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 10:25 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 10:25 |
| *Surr: 1-Chlorooctadecane* | *72.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 10:25* |
| *Surr: 2-Bromonaphthalene* | *87.9* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 10:25* |
| *Surr: 2-Fluorobiphenyl* | *87.0* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 10:25* |
| *Surr: o-Terphenyl* | *80.2* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 10:25* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-111725
Collection Date: 17-Nov-2025 16:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:14 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:14 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 02-Dec-2025 14:14 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:14 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 02-Dec-2025 14:14 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:14 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 02-Dec-2025 14:14 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:14 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:14 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 02-Dec-2025 14:14 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 02-Dec-2025 14:14 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:14 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:14 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 02-Dec-2025 14:14 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 18:31 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **68.0** | | **3.00** | **10.0** | **mg/L** | 1 | 21-Nov-2025 08:05 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 17:16 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 17:16 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.37** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **20.7** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 17:08 |
| Chloride | U | | 0.200 | 0.500 | mg/L | 1 | 20-Nov-2025 17:08 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 20-Nov-2025 17:08 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 18-Nov-2025 09:30

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| **Benzene** | **0.00099** | J | **0.00028** | **0.0010** | **mg/L** | 1 | 21-Nov-2025 19:41 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 19:41 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 19:41 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 19:41 |
| **Toluene** | **0.0017** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 21-Nov-2025 19:41 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 19:41 |
| *Surr: 1,2-Dichloroethane-d4* | *79.0* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 19:41* |
| *Surr: 4-Bromofluorobenzene* | *92.8* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 19:41* |
| *Surr: Dibromofluoromethane* | *90.2* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 19:41* |
| *Surr: Toluene-d8* | *104* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 19:41* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| **Aliphatics >C6 - C8** | **0.270** | | **0.0180** | **0.0500** | **mg/L** | 10 | 27-Nov-2025 13:18 |
| Aliphatics >C8 - C10 | U | | 0.00400 | 0.0500 | mg/L | 10 | 27-Nov-2025 13:18 |
| Aromatics >C8 - C10 | U | | 0.00600 | 0.200 | mg/L | 10 | 27-Nov-2025 13:18 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *103* | | | *70-130* | *%REC* | *10* | *27-Nov-2025 13:18* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *103* | | | *70-130* | *%REC* | *10* | *27-Nov-2025 13:18* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:02 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:02 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:02 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:02 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:02 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:02 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:02 |
| *Surr: 1-Chlorooctadecane* | *78.0* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:02* |
| *Surr: 2-Bromonaphthalene* | *84.6* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:02* |
| *Surr: 2-Fluorobiphenyl* | *93.9* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:02* |
| *Surr: o-Terphenyl* | *79.1* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:02* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 18-Nov-2025 09:30

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:16 |
| **Barium** | **0.128** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:16 |
| **Calcium** | **158** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:16 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:16 |
| **Iron** | **1.74** | | **0.0600** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:16 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:16 |
| **Magnesium** | **26.8** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:16 |
| **Manganese** | **0.0146** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:16 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:16 |
| **Potassium** | **50.4** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:16 |
| **Sodium** | **926** | | **13.0** | **50.0** | **mg/L** | 100 | 02-Dec-2025 14:51 |
| **Strontium** | **6.21** | | **0.0300** | **0.500** | **mg/L** | 100 | 02-Dec-2025 14:51 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:16 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 02-Dec-2025 14:16 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 18:32 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **3,730** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **9.50** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:22 |
| **Alkalinity, Carbonate (As CaCO3)** | **7.40** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:22 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **9.10** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.0** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **1.10** | | **0.0600** | **0.200** | **mg/L** | 2 | 20-Nov-2025 17:17 |
| **Chloride** | **1,730** | | **8.00** | **20.0** | **mg/L** | 40 | 20-Nov-2025 17:27 |
| **Sulfate** | **400** | | **8.00** | **20.0** | **mg/L** | 40 | 20-Nov-2025 17:27 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-111825
Collection Date: 18-Nov-2025 09:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 16:11 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 16:11 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 16:11 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 16:11 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 16:11 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 16:11 |
| *Surr: 1,2-Dichloroethane-d4* | *99.6* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 16:11* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 16:11* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 16:11* |
| *Surr: Toluene-d8* | *99.4* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 16:11* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 21-Nov-2025 19:29 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 21-Nov-2025 19:29 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 21-Nov-2025 19:29 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *88.0* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 19:29* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *88.0* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 19:29* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:31 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:31 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:31 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:31 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:31 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:31 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:31 |
| *Surr: 1-Chlorooctadecane* | *70.9* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:31* |
| *Surr: 2-Bromonaphthalene* | *104* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:31* |
| *Surr: 2-Fluorobiphenyl* | *104* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:31* |
| *Surr: o-Terphenyl* | *85.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:31* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-111825
Collection Date: 18-Nov-2025 09:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:18 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:18 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 02-Dec-2025 14:18 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:18 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 02-Dec-2025 14:18 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:18 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 02-Dec-2025 14:18 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:18 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:18 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 02-Dec-2025 14:18 |
| **Sodium** | **0.257** | J | **0.130** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:18 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:18 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:18 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 02-Dec-2025 14:18 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 18:34 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **94.0** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 17:26 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 17:26 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.40** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.3** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 17:36 |
| **Chloride** | **0.298** | J | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 17:36 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 20-Nov-2025 17:36 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 18-Nov-2025 11:10

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 20:02 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 20:02 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 20:02 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 20:02 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 20:02 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 20:02 |
| *Surr: 1,2-Dichloroethane-d4* | *78.0* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 20:02* |
| *Surr: 4-Bromofluorobenzene* | *92.5* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 20:02* |
| *Surr: Dibromofluoromethane* | *87.9* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 20:02* |
| *Surr: Toluene-d8* | *102* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 20:02* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 22-Nov-2025 01:18 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 22-Nov-2025 01:18 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 22-Nov-2025 01:18 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *93.2* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 01:18* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *93.2* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 01:18* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:59 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:59 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:59 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:59 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:59 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:59 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 16:59 |
| *Surr: 1-Chlorooctadecane* | *75.1* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:59* |
| *Surr: 2-Bromonaphthalene* | *99.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:59* |
| *Surr: 2-Fluorobiphenyl* | *99.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:59* |
| *Surr: o-Terphenyl* | *96.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 16:59* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 18-Nov-2025 11:10

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| **Arsenic** | **0.00192** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| **Barium** | **0.206** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| **Calcium** | **16.3** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:35 |
| **Iron** | **0.785** | | **0.0600** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:35 |
| **Magnesium** | **3.68** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| **Manganese** | **0.0209** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:35 |
| **Potassium** | **28.4** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| **Sodium** | **114** | | **0.130** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| **Strontium** | **0.279** | | **0.000300** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:35 |
| **Zinc** | **0.0140** | | **0.00300** | **0.0100** | **mg/L** | 1 | 02-Dec-2025 14:35 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 19:17 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **1.44** | | **0.500** | **1.00** | **mg/L** | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **394** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **291** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:32 |
| **Alkalinity, Carbonate (As CaCO3)** | **16.6** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:32 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **1.36** | J | **0.920** | **5.00** | **mg/L** | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.57** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.1** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 17:46 |
| **Chloride** | **22.5** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 17:46 |
| **Sulfate** | **0.231** | J | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 17:46 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 18-Nov-2025 19:10

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 20:23 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 20:23 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 20:23 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 20:23 |
| **Toluene** | **0.0014** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 21-Nov-2025 20:23 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 20:23 |
| *Surr: 1,2-Dichloroethane-d4* | *78.2* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 20:23* |
| *Surr: 4-Bromofluorobenzene* | *90.2* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 20:23* |
| *Surr: Dibromofluoromethane* | *90.4* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 20:23* |
| *Surr: Toluene-d8* | *107* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 20:23* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 22-Nov-2025 01:57 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 22-Nov-2025 01:57 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 22-Nov-2025 01:57 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *98.4* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 01:57* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *103* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 01:57* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:28 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:28 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:28 |
| **Aromatics >C10 - C12** | **0.101** | | **0.0250** | **0.100** | **mg/L** | 1 | 22-Nov-2025 17:28 |
| **Aromatics >C12 - C16** | **0.0775** | J | **0.0250** | **0.100** | **mg/L** | 1 | 22-Nov-2025 17:28 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:28 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:28 |
| *Surr: 1-Chlorooctadecane* | *73.1* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 17:28* |
| *Surr: 2-Bromonaphthalene* | *96.3* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 17:28* |
| *Surr: 2-Fluorobiphenyl* | *104* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 17:28* |
| *Surr: o-Terphenyl* | *92.1* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 17:28* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 18-Nov-2025 19:10

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:37 |
| **Barium** | **1.62** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:37 |
| **Calcium** | **81.7** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:37 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:37 |
| **Iron** | **0.426** | | **0.0600** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:37 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:37 |
| **Magnesium** | **15.6** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:37 |
| **Manganese** | **0.0240** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:37 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:37 |
| **Potassium** | **40.6** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:37 |
| **Sodium** | **870** | | **6.50** | **25.0** | **mg/L** | 50 | 02-Dec-2025 15:17 |
| **Strontium** | **2.56** | | **0.0150** | **0.250** | **mg/L** | 50 | 02-Dec-2025 15:17 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:37 |
| **Zinc** | **0.189** | | **0.00300** | **0.0100** | **mg/L** | 1 | 02-Dec-2025 14:37 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 19:22 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **3,900** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **30.4** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:38 |
| **Alkalinity, Carbonate (As CaCO3)** | **2.40** | J | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:38 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.36** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.2** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **1.66** | | **0.0600** | **0.200** | **mg/L** | 2 | 20-Nov-2025 17:55 |
| **Chloride** | **1,620** | | **8.00** | **20.0** | **mg/L** | 40 | 20-Nov-2025 18:04 |
| Sulfate | U | | 0.400 | 1.00 | mg/L | 2 | 20-Nov-2025 17:55 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 18-Nov-2025 15:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-10
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 20:44 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 20:44 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 20:44 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 20:44 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 20:44 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 20:44 |
| *Surr: 1,2-Dichloroethane-d4* | *76.0* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 20:44* |
| *Surr: 4-Bromofluorobenzene* | *90.1* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 20:44* |
| *Surr: Dibromofluoromethane* | *89.6* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 20:44* |
| *Surr: Toluene-d8* | *105* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 20:44* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 22-Nov-2025 02:36 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 22-Nov-2025 02:36 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 22-Nov-2025 02:36 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *84.0* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 02:36* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *84.0* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 02:36* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:57 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:57 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:57 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:57 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:57 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:57 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 17:57 |
| *Surr: 1-Chlorooctadecane* | *73.4* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 17:57* |
| *Surr: 2-Bromonaphthalene* | *97.9* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 17:57* |
| *Surr: 2-Fluorobiphenyl* | *100* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 17:57* |
| *Surr: o-Terphenyl* | *82.5* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 17:57* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 18-Nov-2025 15:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-10
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:39 |
| **Barium** | **0.191** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:39 |
| **Calcium** | **13.3** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:39 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:39 |
| **Iron** | **4.97** | | **0.0600** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:39 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:39 |
| **Magnesium** | **3.69** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:39 |
| **Manganese** | **0.187** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:39 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:39 |
| **Potassium** | **2.09** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:39 |
| **Sodium** | **66.6** | | **0.130** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:39 |
| **Strontium** | **0.166** | | **0.000300** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:39 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:39 |
| **Zinc** | **0.265** | | **0.00300** | **0.0100** | **mg/L** | 1 | 02-Dec-2025 14:39 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 19:30 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **306** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:50 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **133** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 17:43 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 17:43 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.54** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.4** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0848** | J | **0.0300** | **0.100** | **mg/L** | 1 | 20-Nov-2025 18:14 |
| **Chloride** | **53.4** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 18:14 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 20-Nov-2025 18:14 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-273
Collection Date: 18-Nov-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-11
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 16:32 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 16:32 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 16:32 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 16:32 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 16:32 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 16:32 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 16:32* |
| *Surr: 4-Bromofluorobenzene* | *94.6* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 16:32* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 16:32* |
| *Surr: Toluene-d8* | *103* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 16:32* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-375
Collection Date: 18-Nov-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-12
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 16:52 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 16:52 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 16:52 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 16:52 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 16:52 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 16:52 |
| *Surr: 1,2-Dichloroethane-d4* | *102* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 16:52* |
| *Surr: 4-Bromofluorobenzene* | *112* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 16:52* |
| *Surr: Dibromofluoromethane* | *102* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 16:52* |
| *Surr: Toluene-d8* | *96.6* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 16:52* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-289
Collection Date: 18-Nov-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-13
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 17:13 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 17:13 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 17:13 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 17:13 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 17:13 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 17:13 |
| *Surr: 1,2-Dichloroethane-d4* | *99.9* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 17:13* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 17:13* |
| *Surr: Dibromofluoromethane* | *102* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 17:13* |
| *Surr: Toluene-d8* | *97.2* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 17:13* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-276
Collection Date: 18-Nov-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-14
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 17:35 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 17:35 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 17:35 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 17:35 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 17:35 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 17:35 |
| *Surr: 1,2-Dichloroethane-d4* | *102* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 17:35* |
| *Surr: 4-Bromofluorobenzene* | *108* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 17:35* |
| *Surr: Dibromofluoromethane* | *102* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 17:35* |
| *Surr: Toluene-d8* | *94.7* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 17:35* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-272
Collection Date: 18-Nov-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-15
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 17:56 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 17:56 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 17:56 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 17:56 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 17:56 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 17:56 |
| *Surr: 1,2-Dichloroethane-d4* | *102* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 17:56* |
| *Surr: 4-Bromofluorobenzene* | *104* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 17:56* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 17:56* |
| *Surr: Toluene-d8* | *82.2* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 17:56* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-580
Collection Date: 18-Nov-2025 15:30

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-16
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 21:25 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 21:25 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 21:25 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 21:25 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 21:25 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 21:25 |
| *Surr: 1,2-Dichloroethane-d4* | *79.7* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 21:25* |
| *Surr: 4-Bromofluorobenzene* | *92.5* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 21:25* |
| *Surr: Dibromofluoromethane* | *91.3* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 21:25* |
| *Surr: Toluene-d8* | *102* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 21:25* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 22-Nov-2025 03:14 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 22-Nov-2025 03:14 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 22-Nov-2025 03:14 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *101* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 03:14* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *101* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 03:14* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:26 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:26 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:26 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:26 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:26 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:26 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:26 |
| *Surr: 1-Chlorooctadecane* | *92.5* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 18:26* |
| *Surr: 2-Bromonaphthalene* | *97.3* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 18:26* |
| *Surr: 2-Fluorobiphenyl* | *96.0* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 18:26* |
| *Surr: o-Terphenyl* | *101* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 18:26* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-580
Collection Date: 18-Nov-2025 15:30

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-16
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:42 |
| **Barium** | **0.220** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:42 |
| **Calcium** | **22.3** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:42 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:42 |
| **Iron** | **3.99** | | **0.0600** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:42 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:42 |
| **Magnesium** | **7.06** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:42 |
| **Manganese** | **0.374** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:42 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:42 |
| **Potassium** | **2.49** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:42 |
| **Sodium** | **23.9** | | **0.130** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:42 |
| **Strontium** | **0.214** | | **0.000300** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:42 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:42 |
| **Zinc** | **0.00326** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 02-Dec-2025 14:42 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 19:32 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **192** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:50 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **111** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 18:01 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 18:01 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.32** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.3** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 18:32 |
| **Chloride** | **26.1** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 18:32 |
| **Sulfate** | **3.71** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 18:32 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-Rinsate
Collection Date: 18-Nov-2025 14:30

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-17
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 21:46 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 21:46 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 21:46 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 21:46 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 21:46 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 21:46 |
| *Surr: 1,2-Dichloroethane-d4* | *77.3* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 21:46* |
| *Surr: 4-Bromofluorobenzene* | *93.1* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 21:46* |
| *Surr: Dibromofluoromethane* | *88.2* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 21:46* |
| *Surr: Toluene-d8* | *102* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 21:46* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 22-Nov-2025 03:53 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 22-Nov-2025 03:53 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 22-Nov-2025 03:53 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *90.4* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 03:53* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *90.4* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 03:53* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:55 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:55 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:55 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:55 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:55 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:55 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 18:55 |
| *Surr: 1-Chlorooctadecane* | *74.8* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 18:55* |
| *Surr: 2-Bromonaphthalene* | *91.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 18:55* |
| *Surr: 2-Fluorobiphenyl* | *90.8* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 18:55* |
| *Surr: o-Terphenyl* | *88.6* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 18:55* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-Rinsate
Collection Date: 18-Nov-2025 14:30

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-17
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:44 |
| **Barium** | **0.00548** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:44 |
| **Calcium** | **0.326** | J | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:44 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:44 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 02-Dec-2025 14:44 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:44 |
| **Magnesium** | **0.0413** | J | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:44 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:44 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:44 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 02-Dec-2025 14:44 |
| **Sodium** | **0.276** | J | **0.130** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:44 |
| **Strontium** | **0.00329** | J | **0.000300** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:44 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:44 |
| **Zinc** | **0.00337** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 02-Dec-2025 14:44 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 19:37 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **242** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:50 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 18:06 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 18:06 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **6.29** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.4** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 19:19 |
| Chloride | U | | 0.200 | 0.500 | mg/L | 1 | 20-Nov-2025 19:19 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 20-Nov-2025 19:19 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 18-Nov-2025 15:50

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-18
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 22:07 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 22:07 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 22:07 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 22:07 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 22:07 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 22:07 |
| *Surr: 1,2-Dichloroethane-d4* | *92.6* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 22:07* |
| *Surr: 4-Bromofluorobenzene* | *103* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 22:07* |
| *Surr: Dibromofluoromethane* | *92.6* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 22:07* |
| *Surr: Toluene-d8* | *101* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 22:07* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 22-Nov-2025 04:32 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 22-Nov-2025 04:32 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 22-Nov-2025 04:32 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *94.8* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 04:32* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *94.8* | | | *70-130* | *%REC* | *1* | *22-Nov-2025 04:32* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:24 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:24 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:24 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:24 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:24 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:24 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:24 |
| *Surr: 1-Chlorooctadecane* | *73.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 19:24* |
| *Surr: 2-Bromonaphthalene* | *92.4* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 19:24* |
| *Surr: 2-Fluorobiphenyl* | *92.2* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 19:24* |
| *Surr: o-Terphenyl* | *81.5* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 19:24* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 18-Nov-2025 15:50

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-18
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:46 |
| **Barium** | **0.212** | | **0.000750** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:46 |
| **Calcium** | **23.4** | | **0.120** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:46 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:46 |
| **Iron** | **3.35** | | **0.0600** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:46 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:46 |
| **Magnesium** | **7.19** | | **0.0408** | **0.200** | **mg/L** | 1 | 02-Dec-2025 14:46 |
| **Manganese** | **0.355** | | **0.00190** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:46 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:46 |
| **Potassium** | **2.42** | | **0.0869** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:46 |
| **Sodium** | **24.0** | | **0.130** | **0.500** | **mg/L** | 1 | 02-Dec-2025 14:46 |
| **Strontium** | **0.213** | | **0.000300** | **0.00500** | **mg/L** | 1 | 02-Dec-2025 14:46 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:46 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 02-Dec-2025 14:46 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 19:38 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **180** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:50 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **114** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 18:11 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 18:11 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.45** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.6** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 19:28 |
| **Chloride** | **23.7** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 19:28 |
| **Sulfate** | **3.07** | | **0.200** | **0.500** | **mg/L** | 1 | 20-Nov-2025 19:28 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-111925
Collection Date: 19-Nov-2025 08:15

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-19
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 18:17 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 18:17 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 18:17 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 18:17 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 18:17 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 18:17 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 18:17* |
| *Surr: 4-Bromofluorobenzene* | *104* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 18:17* |
| *Surr: Dibromofluoromethane* | *102* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 18:17* |
| *Surr: Toluene-d8* | *94.9* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 18:17* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 21-Nov-2025 20:08 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 21-Nov-2025 20:08 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 21-Nov-2025 20:08 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *101* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 20:08* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *101* | | | *70-130* | *%REC* | *1* | *21-Nov-2025 20:08* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:52 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:52 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:52 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:52 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:52 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:52 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 19:52 |
| *Surr: 1-Chlorooctadecane* | *65.4* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 19:52* |
| *Surr: 2-Bromonaphthalene* | *89.0* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 19:52* |
| *Surr: 2-Fluorobiphenyl* | *92.5* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 19:52* |
| *Surr: o-Terphenyl* | *70.5* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 19:52* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-111925
Collection Date: 19-Nov-2025 08:15

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-19
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 26-Nov-2025 | | Analyst: MSC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:49 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:49 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 02-Dec-2025 14:49 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:49 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 02-Dec-2025 14:49 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 02-Dec-2025 14:49 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 02-Dec-2025 14:49 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:49 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:49 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 02-Dec-2025 14:49 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 02-Dec-2025 14:49 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:49 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 02-Dec-2025 14:49 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 02-Dec-2025 14:49 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 19:40 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **68.0** | | **3.00** | **10.0** | **mg/L** | 1 | 25-Nov-2025 08:28 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 18:16 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Nov-2025 18:16 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.36** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.8** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 20-Nov-2025 19:37 |
| Chloride | U | | 0.200 | 0.500 | mg/L | 1 | 20-Nov-2025 19:37 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 20-Nov-2025 19:37 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 19-Nov-2025 08:45

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-20
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: AKP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 21-Nov-2025 22:28 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 22:28 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 21-Nov-2025 22:28 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 21-Nov-2025 22:28 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 21-Nov-2025 22:28 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 21-Nov-2025 22:28 |
| *Surr: 1,2-Dichloroethane-d4* | *92.3* | | | *70-126* | *%REC* | *1* | *21-Nov-2025 22:28* |
| *Surr: 4-Bromofluorobenzene* | *102* | | | *77-113* | *%REC* | *1* | *21-Nov-2025 22:28* |
| *Surr: Dibromofluoromethane* | *95.5* | | | *77-123* | *%REC* | *1* | *21-Nov-2025 22:28* |
| *Surr: Toluene-d8* | *95.1* | | | *82-127* | *%REC* | *1* | *21-Nov-2025 22:28* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 27-Nov-2025 19:07 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 27-Nov-2025 19:07 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 27-Nov-2025 19:07 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *90.8* | | | *70-130* | *%REC* | *1* | *27-Nov-2025 19:07* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *90.8* | | | *70-130* | *%REC* | *1* | *27-Nov-2025 19:07* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 21-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 20:21 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 20:21 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 20:21 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 20:21 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 20:21 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 20:21 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 22-Nov-2025 20:21 |
| *Surr: 1-Chlorooctadecane* | *84.5* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 20:21* |
| *Surr: 2-Bromonaphthalene* | *87.5* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 20:21* |
| *Surr: 2-Fluorobiphenyl* | *93.6* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 20:21* |
| *Surr: o-Terphenyl* | *80.7* | | | *40-140* | *%REC* | *1* | *22-Nov-2025 20:21* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 19-Nov-2025 08:45

**ANALYTICAL REPORT**
WorkOrder:HS25110862
Lab ID:HS25110862-20
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 01-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.000797** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 03-Dec-2025 10:41 |
| **Barium** | **0.185** | | **0.000750** | **0.00500** | **mg/L** | 1 | 03-Dec-2025 10:41 |
| **Calcium** | **12.1** | | **0.120** | **0.500** | **mg/L** | 1 | 03-Dec-2025 10:41 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 03-Dec-2025 10:41 |
| **Iron** | **0.977** | | **0.0600** | **0.200** | **mg/L** | 1 | 03-Dec-2025 10:41 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 03-Dec-2025 10:41 |
| **Magnesium** | **5.01** | | **0.0408** | **0.200** | **mg/L** | 1 | 03-Dec-2025 10:41 |
| **Manganese** | **0.0381** | | **0.00190** | **0.00500** | **mg/L** | 1 | 03-Dec-2025 10:41 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 03-Dec-2025 10:41 |
| **Potassium** | **7.98** | | **0.0869** | **0.500** | **mg/L** | 1 | 03-Dec-2025 10:41 |
| **Sodium** | **45.0** | | **0.130** | **0.500** | **mg/L** | 1 | 03-Dec-2025 10:41 |
| **Strontium** | **0.238** | | **0.000300** | **0.00500** | **mg/L** | 1 | 03-Dec-2025 10:41 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 03-Dec-2025 10:41 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 03-Dec-2025 10:41 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 01-Dec-2025 | | Analyst: DH |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 01-Dec-2025 19:42 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **226** | | **3.00** | **10.0** | **mg/L** | 1 | 25-Nov-2025 08:28 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **127** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 18:21 |
| **Alkalinity, Carbonate (As CaCO3)** | **10.4** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Nov-2025 18:21 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 20-Nov-2025 16:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.68** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Nov-2025 19:30 |
| **Temp Deg C @pH** | **21.7** | H | **0** | **0** | **°C** | 1 | 20-Nov-2025 19:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 24-Nov-2025 13:53 |
| **Chloride** | **21.3** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 13:53 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 24-Nov-2025 13:53 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**Batch ID:** 235895 **Start Date:** 21 Nov 2025 13:34 **End Date:** 21 Nov 2025 13:34
**Method:** MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25110862-01 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-02 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-03 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-04 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-05 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-06 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-07 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-08 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-09 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-10 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-16 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-17 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-18 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-19 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25110862-20 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |

**Batch ID:** 236117 **Start Date:** 26 Nov 2025 09:00 **End Date:** 26 Nov 2025 09:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25110862-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-16 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-17 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-18 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-19 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 236165 **Start Date:** 01 Dec 2025 10:00 **End Date:** 01 Dec 2025 10:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25110862-20 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**Batch ID:** 236170 **Start Date:** 01 Dec 2025 10:00 **End Date:** 01 Dec 2025 10:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25110862-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 236172 **Start Date:** 01 Dec 2025 10:00 **End Date:** 01 Dec 2025 10:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25110862-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-16 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-17 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-18 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-19 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25110862-20 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 235895 ( 0 ) | **Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019 | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | 21 Nov 2025 13:34 | 22 Nov 2025 09:56 | 1 |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | 21 Nov 2025 13:34 | 22 Nov 2025 09:56 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | 21 Nov 2025 13:34 | 22 Nov 2025 10:25 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | 21 Nov 2025 13:34 | 22 Nov 2025 10:25 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | 21 Nov 2025 13:34 | 22 Nov 2025 16:02 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | 21 Nov 2025 13:34 | 22 Nov 2025 16:02 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | 21 Nov 2025 13:34 | 22 Nov 2025 16:31 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | 21 Nov 2025 13:34 | 22 Nov 2025 16:31 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | 21 Nov 2025 13:34 | 22 Nov 2025 16:59 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | 21 Nov 2025 13:34 | 22 Nov 2025 16:59 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | 21 Nov 2025 13:34 | 22 Nov 2025 17:28 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | 21 Nov 2025 13:34 | 22 Nov 2025 17:28 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | 21 Nov 2025 13:34 | 22 Nov 2025 17:57 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | 21 Nov 2025 13:34 | 22 Nov 2025 17:57 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | 21 Nov 2025 13:34 | 22 Nov 2025 18:26 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | 21 Nov 2025 13:34 | 22 Nov 2025 18:26 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | 21 Nov 2025 13:34 | 22 Nov 2025 18:55 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | 21 Nov 2025 13:34 | 22 Nov 2025 18:55 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | 21 Nov 2025 13:34 | 22 Nov 2025 19:24 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | 21 Nov 2025 13:34 | 22 Nov 2025 19:24 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | 21 Nov 2025 13:34 | 22 Nov 2025 19:52 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | 21 Nov 2025 13:34 | 22 Nov 2025 19:52 | 1 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | 21 Nov 2025 13:34 | 22 Nov 2025 20:21 | 1 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | 21 Nov 2025 13:34 | 22 Nov 2025 20:21 | 1 |
| **Batch ID:** 235895 ( 0 ) | **Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019 | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | 21 Nov 2025 13:34 | 22 Nov 2025 08:30 | 1 |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | 21 Nov 2025 13:34 | 22 Nov 2025 08:30 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | 21 Nov 2025 13:34 | 22 Nov 2025 08:59 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | 21 Nov 2025 13:34 | 22 Nov 2025 08:59 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | 21 Nov 2025 13:34 | 22 Nov 2025 09:28 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | 21 Nov 2025 13:34 | 22 Nov 2025 09:28 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 236117 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:11 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:14 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:51 | 100 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:16 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:18 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:35 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | 26 Nov 2025 09:00 | 02 Dec 2025 15:17 | 50 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:37 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:39 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:42 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:44 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:46 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:49 | 1 |
| **Batch ID:** 236117 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | 26 Nov 2025 09:00 | 02 Dec 2025 13:57 | 100 |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | 26 Nov 2025 09:00 | 02 Dec 2025 13:54 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:53 | 100 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:06 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | 26 Nov 2025 09:00 | 02 Dec 2025 14:09 | 1 |
| **Batch ID:** 236165 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | 01 Dec 2025 10:00 | 03 Dec 2025 10:41 | 1 |
| **Batch ID:** 236170 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | 01 Dec 2025 10:00 | 01 Dec 2025 18:29 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | 01 Dec 2025 10:00 | 01 Dec 2025 18:31 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | 01 Dec 2025 10:00 | 01 Dec 2025 18:32 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | 01 Dec 2025 10:00 | 01 Dec 2025 18:34 | 1 |
| **Batch ID:** 236170 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | 01 Dec 2025 10:00 | 01 Dec 2025 18:18 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | 01 Dec 2025 10:00 | 01 Dec 2025 18:25 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | 01 Dec 2025 10:00 | 01 Dec 2025 18:27 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 236172 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | 01 Dec 2025 10:00 | 01 Dec 2025 19:17 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | 01 Dec 2025 10:00 | 01 Dec 2025 19:22 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | 01 Dec 2025 10:00 | 01 Dec 2025 19:30 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | 01 Dec 2025 10:00 | 01 Dec 2025 19:32 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | 01 Dec 2025 10:00 | 01 Dec 2025 19:37 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | 01 Dec 2025 10:00 | 01 Dec 2025 19:38 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | 01 Dec 2025 10:00 | 01 Dec 2025 19:40 | 1 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | 01 Dec 2025 10:00 | 01 Dec 2025 19:42 | 1 |
| **Batch ID:** R526819 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | | 20 Nov 2025 16:00 | 1 |
| **Batch ID:** R526819 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | | 20 Nov 2025 16:00 | 1 |
| **Batch ID:** R526820 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | | 20 Nov 2025 16:00 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R526820 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | | 20 Nov 2025 16:00 | 1 |
| **Batch ID:** R526824 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | | 20 Nov 2025 17:12 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | | 20 Nov 2025 17:16 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 20 Nov 2025 17:22 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | | 20 Nov 2025 17:26 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | | 20 Nov 2025 17:32 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 20 Nov 2025 17:38 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | | 20 Nov 2025 17:43 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | | 20 Nov 2025 18:01 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | | 20 Nov 2025 18:06 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | | 20 Nov 2025 18:11 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | | 20 Nov 2025 18:16 | 1 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | | 20 Nov 2025 18:21 | 1 |
| **Batch ID:** R526824 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 20 Nov 2025 16:38 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 20 Nov 2025 16:56 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | | 20 Nov 2025 17:06 | 1 |
| **Batch ID:** R526826 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | | 20 Nov 2025 19:30 | 1 |
| **Batch ID:** R526826 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 20 Nov 2025 19:30 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | | 20 Nov 2025 19:30 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R526889 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | | 21 Nov 2025 07:40 | 1 |
| **Batch ID:** R526889 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 21 Nov 2025 07:40 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 21 Nov 2025 07:40 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | | 21 Nov 2025 07:40 | 1 |
| **Batch ID:** R526890 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | | 21 Nov 2025 08:05 | 1 |
| **Batch ID:** R526952 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | | 20 Nov 2025 16:22 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | | 20 Nov 2025 17:08 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 20 Nov 2025 17:27 | 40 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 20 Nov 2025 17:17 | 2 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | | 20 Nov 2025 17:36 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | | 20 Nov 2025 17:46 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 20 Nov 2025 18:04 | 40 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 20 Nov 2025 17:55 | 2 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | | 20 Nov 2025 18:14 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | | 20 Nov 2025 18:32 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | | 20 Nov 2025 19:19 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | | 20 Nov 2025 19:28 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | | 20 Nov 2025 19:37 | 1 |
| **Batch ID:** R526952 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 20 Nov 2025 15:32 | 10 |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 20 Nov 2025 15:23 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 20 Nov 2025 16:00 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | | 20 Nov 2025 16:13 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R526971 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | | 21 Nov 2025 19:20 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | | 21 Nov 2025 15:50 | 1 |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 21 Nov 2025 19:41 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | | 21 Nov 2025 16:11 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | | 21 Nov 2025 20:02 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 21 Nov 2025 20:23 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | | 21 Nov 2025 20:44 | 1 |
| HS25110862-11 | CG-103025-273 | 18 Nov 2025 00:00 | | | 21 Nov 2025 16:32 | 1 |
| HS25110862-12 | CG-100125-375 | 18 Nov 2025 00:00 | | | 21 Nov 2025 16:52 | 1 |
| HS25110862-13 | CG-103025-289 | 18 Nov 2025 00:00 | | | 21 Nov 2025 17:13 | 1 |
| HS25110862-14 | CG-103025-276 | 18 Nov 2025 00:00 | | | 21 Nov 2025 17:35 | 1 |
| HS25110862-15 | CG-103025-272 | 18 Nov 2025 00:00 | | | 21 Nov 2025 17:56 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | | 21 Nov 2025 21:25 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | | 21 Nov 2025 21:46 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | | 21 Nov 2025 22:07 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | | 21 Nov 2025 18:17 | 1 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | | 21 Nov 2025 22:28 | 1 |
| **Batch ID:** R526971 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 21 Nov 2025 21:04 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 21 Nov 2025 18:38 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | | 21 Nov 2025 18:59 | 1 |
| **Batch ID:** R526977 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | | 21 Nov 2025 22:43 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | | 21 Nov 2025 18:51 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | | 21 Nov 2025 19:29 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | | 22 Nov 2025 01:18 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 22 Nov 2025 01:57 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | | 22 Nov 2025 02:36 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | | 22 Nov 2025 03:14 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | | 22 Nov 2025 03:53 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | | 22 Nov 2025 04:32 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | | 21 Nov 2025 20:08 | 1 |
| **Batch ID:** R526977 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 21 Nov 2025 20:47 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 21 Nov 2025 21:26 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | | 21 Nov 2025 22:04 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R526988 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25110862-04 | MW-1-200 | 17 Nov 2025 16:05 | | | 21 Nov 2025 22:43 | 1 |
| HS25110862-05 | FB-111725 | 17 Nov 2025 16:00 | | | 21 Nov 2025 18:51 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | | 21 Nov 2025 19:29 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | | 22 Nov 2025 01:18 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 22 Nov 2025 01:57 | 1 |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | | 22 Nov 2025 02:36 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | | 22 Nov 2025 03:14 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | | 22 Nov 2025 03:53 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | | 22 Nov 2025 04:32 | 1 |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | | 21 Nov 2025 20:08 | 1 |
| **Batch ID:** R526988 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** GW | |
| HS25110862-01 | LDNR-24 | 17 Nov 2025 11:45 | | | 21 Nov 2025 20:47 | 1 |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 21 Nov 2025 21:26 | 1 |
| HS25110862-03 | LDNR-26 | 17 Nov 2025 12:45 | | | 21 Nov 2025 22:04 | 1 |
| **Batch ID:** R527039 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 24 Nov 2025 09:13 | 1 |
| HS25110862-07 | FB-111825 | 18 Nov 2025 09:00 | | | 24 Nov 2025 09:13 | 1 |
| HS25110862-08 | MW-3-200 | 18 Nov 2025 11:10 | | | 24 Nov 2025 09:13 | 1 |
| HS25110862-09 | MW-3-700 | 18 Nov 2025 19:10 | | | 24 Nov 2025 09:13 | 1 |
| **Batch ID:** R527040 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25110862-10 | Cottages | 18 Nov 2025 15:00 | | | 24 Nov 2025 09:50 | 1 |
| HS25110862-16 | 019-580 | 18 Nov 2025 15:30 | | | 24 Nov 2025 09:50 | 1 |
| HS25110862-17 | GW-Rinsate | 18 Nov 2025 14:30 | | | 24 Nov 2025 09:50 | 1 |
| HS25110862-18 | 019-995 | 18 Nov 2025 15:50 | | | 24 Nov 2025 09:50 | 1 |
| **Batch ID:** R527073 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** Water | |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | | 24 Nov 2025 13:53 | 1 |
| **Batch ID:** R527073 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** GW | |
| HS25110862-02 | LDNR-04 | 17 Nov 2025 12:15 | | | 24 Nov 2025 13:48 | 10 |
| **Batch ID:** R527149 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25110862-19 | FB-111925 | 19 Nov 2025 08:15 | | | 25 Nov 2025 08:28 | 1 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | | 25 Nov 2025 08:28 | 1 |
| **Batch ID:** R527358 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 27 Nov 2025 13:18 | 10 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | | 27 Nov 2025 19:07 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R527364 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25110862-06 | MW-3-500 | 18 Nov 2025 09:30 | | | 27 Nov 2025 13:18 | 10 |
| HS25110862-20 | MW-1-500 | 19 Nov 2025 08:45 | | | 27 Nov 2025 19:07 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 235895 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MBLK** Sample ID: **MBLK-235895** Units: **mg/L** Analysis Date: **22-Nov-2025 07:03**
Client ID: Run ID: **FID23_526956** SeqNo: **9159102** PrepDate: **21-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aliphatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aliphatics >C16 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02496* | *0* | *0.04* | *0* | *62.4* | *40 - 140* | | | | |

**MBLK** Sample ID: **MBLK-235895** Units: **mg/L** Analysis Date: **22-Nov-2025 07:03**
Client ID: Run ID: **FID-22_526957** SeqNo: **9159115** PrepDate: **21-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aromatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aromatics >C16 - C21 | U | 0.100 | | | | | | | | |
| Aromatics >C21 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03711* | *0* | *0.04* | *0* | *92.8* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03704* | *0* | *0.04* | *0* | *92.6* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.0341* | *0* | *0.04* | *0* | *85.3* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-235895** Units: **mg/L** Analysis Date: **22-Nov-2025 07:32**
Client ID: Run ID: **FID23_526956** SeqNo: **9159103** PrepDate: **21-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04293 | 0.100 | 0.05 | 0 | 85.9 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.08521 | 0.100 | 0.1 | 0 | 85.2 | 40 - 140 | | | | J |
| Aliphatics >C16 - C35 | 0.3532 | 0.100 | 0.4 | 0 | 88.3 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02486* | *0* | *0.04* | *0* | *62.1* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 235895 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**LCS** Sample ID: **LCS-235895** Units: **mg/L** Analysis Date: **22-Nov-2025 07:32**
Client ID: Run ID: **FID-22_526957** SeqNo: **9159116** PrepDate: **21-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.05509 | 0.100 | 0.05 | 0 | 110 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.176 | 0.100 | 0.2 | 0 | 88.0 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1518 | 0.100 | 0.15 | 0 | 101 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.4596 | 0.100 | 0.45 | 0 | 102 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03572* | *0* | *0.04* | *0* | *89.3* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03628* | *0* | *0.04* | *0* | *90.7* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03391* | *0* | *0.04* | *0* | *84.8* | *40 - 140* | | | | |

**LCSD** Sample ID: **LCSD-235895** Units: **mg/L** Analysis Date: **22-Nov-2025 08:01**
Client ID: Run ID: **FID23_526956** SeqNo: **9159104** PrepDate: **21-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04223 | 0.100 | 0.05 | 0 | 84.5 | 40 - 140 | 0.04293 | 0 | 50 | J |
| Aliphatics >C12 - C16 | 0.08502 | 0.100 | 0.1 | 0 | 85.0 | 40 - 140 | 0.08521 | 0 | 50 | J |
| Aliphatics >C16 - C35 | 0.3516 | 0.100 | 0.4 | 0 | 87.9 | 40 - 140 | 0.3532 | 0.474 | 50 | |
| *Surr: 1-Chlorooctadecane* | *0.0246* | *0* | *0.04* | *0* | *61.5* | *40 - 140* | *0.02486* | *1.05* | *50* | |

**LCSD** Sample ID: **LCSD-235895** Units: **mg/L** Analysis Date: **22-Nov-2025 08:01**
Client ID: Run ID: **FID-22_526957** SeqNo: **9159117** PrepDate: **21-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.05616 | 0.100 | 0.05 | 0 | 112 | 40 - 140 | 0.05509 | 0 | 50 | J |
| Aromatics >C12 - C16 | 0.1739 | 0.100 | 0.2 | 0 | 87.0 | 40 - 140 | 0.176 | 1.19 | 50 | |
| Aromatics >C16 - C21 | 0.1492 | 0.100 | 0.15 | 0 | 99.4 | 40 - 140 | 0.1518 | 1.76 | 50 | |
| Aromatics >C21 - C35 | 0.4512 | 0.100 | 0.45 | 0 | 100 | 40 - 140 | 0.4596 | 1.85 | 50 | |
| *Surr: 2-Bromonaphthalene* | *0.03552* | *0* | *0.04* | *0* | *88.8* | *40 - 140* | *0.03572* | *0.561* | *50* | |
| *Surr: 2-Fluorobiphenyl* | *0.0357* | *0* | *0.04* | *0* | *89.3* | *40 - 140* | *0.03628* | *1.61* | *50* | |
| *Surr: o-Terphenyl* | *0.03341* | *0* | *0.04* | *0* | *83.5* | *40 - 140* | *0.03391* | *1.48* | *50* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-06 | HS25110862-07 | HS25110862-08 |
| HS25110862-09 | HS25110862-10 | HS25110862-16 | HS25110862-17 |
| HS25110862-18 | HS25110862-19 | HS25110862-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526977 ( 0 )** **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MBLK** Sample ID: **MBLK-251121** Units: **mg/L** Analysis Date: **21-Nov-2025 18:12**
Client ID: Run ID: **FID-14_526977** SeqNo: **9159730** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.219* | *0.0100* | *0.25* | *0* | *87.6* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251121** Units: **mg/L** Analysis Date: **21-Nov-2025 16:54**
Client ID: Run ID: **FID-14_526977** SeqNo: **9159728** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.02 | 0.00500 | 0.025 | 0 | 80.0 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.231* | *0.0100* | *0.25* | *0* | *92.4* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251121** Units: **mg/L** Analysis Date: **21-Nov-2025 17:33**
Client ID: Run ID: **FID-14_526977** SeqNo: **9159729** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.022 | 0.00500 | 0.025 | 0 | 88.0 | 70 - 130 | 0.02 | 9.52 | 25 | |
| Aliphatics >C8 - C10 | 0.026 | 0.00500 | 0.025 | 0 | 104 | 70 - 130 | 0.027 | 3.77 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.235* | *0.0100* | *0.25* | *0* | *94.0* | *70 - 130* | *0.231* | *1.72* | *25* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-07 | HS25110862-08 | HS25110862-09 |
| HS25110862-10 | HS25110862-16 | HS25110862-17 | HS25110862-18 |
| HS25110862-19 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526988 ( 0 )** **Instrument: FID-15** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MBLK** Sample ID: **MBLK-251121** Units: **mg/L** Analysis Date: **21-Nov-2025 18:12**
Client ID: Run ID: **FID-15_526988** SeqNo: **9160055** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.219* | *0.0100* | *0.25* | *0* | *87.6* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251121** Units: **mg/L** Analysis Date: **21-Nov-2025 16:54**
Client ID: Run ID: **FID-15_526988** SeqNo: **9160053** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0891 | 0.0200 | 0.1 | 0 | 89.1 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.231* | *0.0100* | *0.25* | *0* | *92.4* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251121** Units: **mg/L** Analysis Date: **21-Nov-2025 17:33**
Client ID: Run ID: **FID-15_526988** SeqNo: **9160054** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0867 | 0.0200 | 0.1 | 0 | 86.7 | 70 - 130 | 0.0891 | 2.73 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.224* | *0.0100* | *0.25* | *0* | *89.6* | *70 - 130* | *0.231* | *3.08* | *25* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-07 | HS25110862-08 | HS25110862-09 |
| HS25110862-10 | HS25110862-16 | HS25110862-17 | HS25110862-18 |
| HS25110862-19 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID:** R527358 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251126** Units: **mg/L** Analysis Date: **27-Nov-2025 12:39**
Client ID: Run ID: **FID-14_527358** SeqNo: **9168215** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.246* | *0.0100* | *0.25* | *0* | *98.4* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251126** Units: **mg/L** Analysis Date: **27-Nov-2025 11:22**
Client ID: Run ID: **FID-14_527358** SeqNo: **9168212** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.024 | 0.00500 | 0.025 | 0 | 96.0 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.022 | 0.00500 | 0.025 | 0 | 88.0 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.245* | *0.0100* | *0.25* | *0* | *98.0* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251126** Units: **mg/L** Analysis Date: **27-Nov-2025 12:00**
Client ID: Run ID: **FID-14_527358** SeqNo: **9168214** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.021 | 0.00500 | 0.025 | 0 | 84.0 | 70 - 130 | 0.024 | 13.3 | 25 | |
| Aliphatics >C8 - C10 | 0.024 | 0.00500 | 0.025 | 0 | 96.0 | 70 - 130 | 0.022 | 8.7 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.22* | *0.0100* | *0.25* | *0* | *88.0* | *70 - 130* | *0.245* | *10.8* | *25* | |

**MS** Sample ID: **HS25111156-04MS** Units: **mg/L** Analysis Date: **28-Nov-2025 04:52**
Client ID: Run ID: **FID-14_527358** SeqNo: **9168233** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.027 | 0.00500 | 0.025 | 0 | 108 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.025 | 0.00500 | 0.025 | 0 | 100 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.242* | *0.0100* | *0.25* | *0* | *96.8* | *70 - 130* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R527358 ( 0 )** **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MS** Sample ID: **HS25110987-08MS** Units: **mg/L** Analysis Date: **28-Nov-2025 06:10**
Client ID: Run ID: **FID-14_527358** SeqNo: **9168235** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.4 | 0.0500 | 0.25 | 0.16 | 96.0 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.23 | 0.0500 | 0.25 | 0 | 92.0 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *2.19* | *0.100* | *2.5* | *0* | *87.6* | *70 - 130* | | | | |

**MSD** Sample ID: **HS25111156-04MSD** Units: **mg/L** Analysis Date: **28-Nov-2025 05:31**
Client ID: Run ID: **FID-14_527358** SeqNo: **9168234** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.024 | 0.00500 | 0.025 | 0 | 96.0 | 70 - 130 | 0.027 | 11.8 | 25 | |
| Aliphatics >C8 - C10 | 0.023 | 0.00500 | 0.025 | 0 | 92.0 | 70 - 130 | 0.025 | 8.33 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.278* | *0.0100* | *0.25* | *0* | *111* | *70 - 130* | *0.242* | *13.8* | *25* | |

**MSD** Sample ID: **HS25110987-08MSD** Units: **mg/L** Analysis Date: **28-Nov-2025 06:49**
Client ID: Run ID: **FID-14_527358** SeqNo: **9168236** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.37 | 0.0500 | 0.25 | 0.16 | 84.0 | 70 - 130 | 0.4 | 7.79 | 25 | |
| Aliphatics >C8 - C10 | 0.23 | 0.0500 | 0.25 | 0 | 92.0 | 70 - 130 | 0.23 | 0 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *2.71* | *0.100* | *2.5* | *0* | *108* | *70 - 130* | *2.19* | *21.2* | *25* | |

**The following samples were analyzed in this batch:** HS25110862-06 HS25110862-20



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R527364 ( 0 )** **Instrument: FID-15** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MBLK** Sample ID: **MBLK-251126** Units: **mg/L** Analysis Date: **27-Nov-2025 12:39**
Client ID: Run ID: **FID-15_527364** SeqNo: **9168325** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.254* | *0.0100* | *0.25* | *0* | *102* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251126** Units: **mg/L** Analysis Date: **27-Nov-2025 11:22**
Client ID: Run ID: **FID-15_527364** SeqNo: **9168322** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0822 | 0.0200 | 0.1 | 0 | 82.2 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.256* | *0.0100* | *0.25* | *0* | *102* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251126** Units: **mg/L** Analysis Date: **27-Nov-2025 12:00**
Client ID: Run ID: **FID-15_527364** SeqNo: **9168324** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.1074 | 0.0200 | 0.1 | 0 | 107 | 70 - 130 | 0.0822 | 26.6 | 25 | R |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.212* | *0.0100* | *0.25* | *0* | *84.8* | *70 - 130* | *0.256* | *18.8* | *25* | |

**MS** Sample ID: **HS25111156-04MS** Units: **mg/L** Analysis Date: **28-Nov-2025 04:52**
Client ID: Run ID: **FID-15_527364** SeqNo: **9168343** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.1099 | 0.0200 | 0.1 | 0 | 110 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.23* | *0.0100* | *0.25* | *0* | *92.0* | *70 - 130* | | | | |

**MS** Sample ID: **HS25110987-08MS** Units: **mg/L** Analysis Date: **28-Nov-2025 06:10**
Client ID: Run ID: **FID-15_527364** SeqNo: **9168345** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 1.028 | 0.200 | 1 | 0 | 103 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *2.19* | *0.100* | *2.5* | *0* | *87.6* | *70 - 130* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID:** R527364 ( 0 ) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MSD** Sample ID: **HS25111156-04MSD** Units: **mg/L** Analysis Date: **28-Nov-2025 05:31**
Client ID: Run ID: **FID-15_527364** SeqNo: **9168344** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0965 | 0.0200 | 0.1 | 0 | 96.5 | 70 - 130 | 0.1099 | 13 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.278* | *0.0100* | *0.25* | *0* | *111* | *70 - 130* | *0.23* | *18.9* | *25* | |

**MSD** Sample ID: **HS25110987-08MSD** Units: **mg/L** Analysis Date: **28-Nov-2025 06:49**
Client ID: Run ID: **FID-15_527364** SeqNo: **9168346** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.917 | 0.200 | 1 | 0 | 91.7 | 70 - 130 | 1.028 | 11.4 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *2.71* | *0.100* | *2.5* | *0* | *108* | *70 - 130* | *2.19* | *21.2* | *25* | |

**The following samples were analyzed in this batch:** HS25110862-06 HS25110862-20



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236117 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-236117** Units: **mg/L** Analysis Date: **02-Dec-2025 13:38**
Client ID: Run ID: **ICPMS07_527437** SeqNo: **9170865** PrepDate: **26-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | |
| Barium | U | 0.00500 | | | | | | | |
| Calcium | U | 0.500 | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | |
| Iron | U | 0.200 | | | | | | | |
| Lead | U | 0.00200 | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | |
| Potassium | U | 0.500 | | | | | | | |
| Sodium | U | 0.500 | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | |

**LCS** Sample ID: **LCS-236117** Units: **mg/L** Analysis Date: **02-Dec-2025 13:40**
Client ID: Run ID: **ICPMS07_527437** SeqNo: **9170866** PrepDate: **26-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.04884 | 0.00200 | 0.05 | 0 | 97.7 | 80 - 120 | | | |
| Barium | 0.04675 | 0.00500 | 0.05 | 0 | 93.5 | 80 - 120 | | | |
| Calcium | 4.877 | 0.500 | 5 | 0 | 97.5 | 80 - 120 | | | |
| Chromium | 0.04816 | 0.00500 | 0.05 | 0 | 96.3 | 80 - 120 | | | |
| Iron | 4.648 | 0.200 | 5 | 0 | 93.0 | 80 - 120 | | | |
| Lead | 0.04966 | 0.00200 | 0.05 | 0 | 99.3 | 80 - 120 | | | |
| Magnesium | 4.664 | 0.200 | 5 | 0 | 93.3 | 80 - 120 | | | |
| Manganese | 0.05041 | 0.00500 | 0.05 | 0 | 101 | 80 - 120 | | | |
| Nickel | 0.0492 | 0.00500 | 0.05 | 0 | 98.4 | 80 - 120 | | | |
| Potassium | 4.575 | 0.500 | 5 | 0 | 91.5 | 80 - 120 | | | |
| Sodium | 4.538 | 0.500 | 5 | 0 | 90.8 | 80 - 120 | | | |
| Strontium | 0.09511 | 0.00500 | 0.1 | 0 | 95.1 | 80 - 120 | | | |
| Vanadium | 0.04787 | 0.00500 | 0.05 | 0 | 95.7 | 80 - 120 | | | |
| Zinc | 0.05235 | 0.0100 | 0.05 | 0 | 105 | 80 - 120 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236117 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25110720-16MS** Units: **mg/L** Analysis Date: **02-Dec-2025 13:47**
Client ID: Run ID: **ICPMS07_527437** SeqNo: **9170869** PrepDate: **26-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05558 | 0.00200 | 0.05 | 0.002985 | 105 | 80 - 120 | | | | |
| Barium | 0.1576 | 0.00500 | 0.05 | 0.1078 | 99.7 | 80 - 120 | | | | |
| Calcium | 101.6 | 0.500 | 5 | 95.71 | 117 | 80 - 120 | | | | O |
| Chromium | 0.0527 | 0.00500 | 0.05 | 0.000664 | 104 | 80 - 120 | | | | |
| Iron | 4.859 | 0.200 | 5 | 0.0507 | 96.2 | 80 - 120 | | | | |
| Lead | 0.05106 | 0.00200 | 0.05 | 0.000177 | 102 | 80 - 120 | | | | |
| Magnesium | 34.06 | 0.200 | 5 | 28.55 | 110 | 80 - 120 | | | | O |
| Manganese | 0.2007 | 0.00500 | 0.05 | 0.1484 | 105 | 80 - 120 | | | | |
| Nickel | 0.04891 | 0.00500 | 0.05 | 0.000816 | 96.2 | 80 - 120 | | | | |
| Potassium | 10.09 | 0.500 | 5 | 4.773 | 106 | 80 - 120 | | | | |
| Sodium | 1251 | 0.500 | 5 | 1252 | -17.3 | 80 - 120 | | | | SEO |
| Strontium | 1.196 | 0.00500 | 0.1 | 1.105 | 91.3 | 80 - 120 | | | | O |
| Vanadium | 0.05935 | 0.00500 | 0.05 | 0.005948 | 107 | 80 - 120 | | | | |
| Zinc | 0.0555 | 0.0100 | 0.05 | 0.005774 | 99.5 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25110720-16MSD** Units: **mg/L** Analysis Date: **02-Dec-2025 13:49**
Client ID: Run ID: **ICPMS07_527437** SeqNo: **9170870** PrepDate: **26-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05328 | 0.00200 | 0.05 | 0.002985 | 101 | 80 - 120 | 0.05558 | 4.23 | 20 | |
| Barium | 0.1535 | 0.00500 | 0.05 | 0.1078 | 91.5 | 80 - 120 | 0.1576 | 2.63 | 20 | |
| Calcium | 98.85 | 0.500 | 5 | 95.71 | 62.9 | 80 - 120 | 101.6 | 2.7 | 20 | SO |
| Chromium | 0.05007 | 0.00500 | 0.05 | 0.000664 | 98.8 | 80 - 120 | 0.0527 | 5.13 | 20 | |
| Iron | 4.604 | 0.200 | 5 | 0.0507 | 91.1 | 80 - 120 | 4.859 | 5.39 | 20 | |
| Lead | 0.05021 | 0.00200 | 0.05 | 0.000177 | 100 | 80 - 120 | 0.05106 | 1.68 | 20 | |
| Magnesium | 32.75 | 0.200 | 5 | 28.55 | 83.9 | 80 - 120 | 34.06 | 3.91 | 20 | O |
| Manganese | 0.1891 | 0.00500 | 0.05 | 0.1484 | 81.5 | 80 - 120 | 0.2007 | 5.94 | 20 | |
| Nickel | 0.04648 | 0.00500 | 0.05 | 0.000816 | 91.3 | 80 - 120 | 0.04891 | 5.1 | 20 | |
| Potassium | 9.714 | 0.500 | 5 | 4.773 | 98.8 | 80 - 120 | 10.09 | 3.84 | 20 | |
| Sodium | 1213 | 0.500 | 5 | 1252 | -769 | 80 - 120 | 1251 | 3.05 | 20 | SEO |
| Strontium | 1.167 | 0.00500 | 0.1 | 1.105 | 62.2 | 80 - 120 | 1.196 | 2.45 | 20 | SO |
| Vanadium | 0.05646 | 0.00500 | 0.05 | 0.005948 | 101 | 80 - 120 | 0.05935 | 4.99 | 20 | |
| Zinc | 0.05317 | 0.0100 | 0.05 | 0.005774 | 94.8 | 80 - 120 | 0.0555 | 4.3 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236117 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25110720-16PDS** Units: **mg/L** Analysis Date: **02-Dec-2025 13:52**
Client ID: Run ID: **ICPMS07_527437** SeqNo: **9170871** PrepDate: **26-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.1042 | 0.00200 | 0.1 | 0.002985 | 101 | 75 - 125 | | | | |
| Barium | 0.1998 | 0.00500 | 0.1 | 0.1078 | 92.0 | 75 - 125 | | | | |
| Calcium | 100.7 | 0.500 | 10 | 95.71 | 50.0 | 75 - 125 | | | | SO |
| Chromium | 0.09702 | 0.00500 | 0.1 | 0.000664 | 96.4 | 75 - 125 | | | | |
| Iron | 9.351 | 0.200 | 10 | 0.0507 | 93.0 | 75 - 125 | | | | |
| Lead | 0.1013 | 0.00200 | 0.1 | 0.000177 | 101 | 75 - 125 | | | | |
| Magnesium | 37.25 | 0.200 | 10 | 28.55 | 86.9 | 75 - 125 | | | | |
| Manganese | 0.2321 | 0.00500 | 0.1 | 0.1484 | 83.7 | 75 - 125 | | | | |
| Nickel | 0.0924 | 0.00500 | 0.1 | 0.000816 | 91.6 | 75 - 125 | | | | |
| Potassium | 14.72 | 0.500 | 10 | 4.773 | 99.4 | 75 - 125 | | | | |
| Strontium | 1.149 | 0.00500 | 0.1 | 1.105 | 44.1 | 75 - 125 | | | | SO |
| Vanadium | 0.1051 | 0.00500 | 0.1 | 0.005948 | 99.1 | 75 - 125 | | | | |
| Zinc | 0.1017 | 0.0100 | 0.1 | 0.005774 | 96.0 | 75 - 125 | | | | |

**PDS** Sample ID: **HS25110720-16PDS** Units: **mg/L** Analysis Date: **02-Dec-2025 15:23**
Client ID: Run ID: **ICPMS07_527437** SeqNo: **9171211** PrepDate: **26-Nov-2025** DF: **500**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 5928 | 250 | 5000 | 1237 | 93.8 | 75 - 125 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236117 ( 0 )** **Instrument: ICPMS07** **Method: ICP-MS METALS BY SW6020A**

**SD** Sample ID: **HS25110720-16SD** Units: **mg/L** Analysis Date: **02-Dec-2025 13:42**
Client ID: Run ID: **ICPMS07_527437** SeqNo: **9170867** PrepDate: **26-Nov-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.00299 | 0.0100 | | | | | 0.002985 | 0 | 10 | J |
| Barium | 0.1124 | 0.0250 | | | | | 0.1078 | 4.32 | 10 | |
| Calcium | 93.88 | 2.50 | | | | | 95.71 | 1.91 | 10 | |
| Chromium | U | 0.0250 | | | | | 0.000664 | 0 | 10 | |
| Iron | U | 1.00 | | | | | 0.0507 | 0 | 10 | |
| Lead | U | 0.0100 | | | | | 0.000177 | 0 | 10 | |
| Magnesium | 26.92 | 1.00 | | | | | 28.55 | 5.73 | 10 | |
| Manganese | 0.1504 | 0.0250 | | | | | 0.1484 | 1.4 | 10 | |
| Nickel | U | 0.0250 | | | | | 0.000816 | 0 | 10 | |
| Potassium | 4.6 | 2.50 | | | | | 4.773 | 3.62 | 10 | |
| Strontium | 1.093 | 0.0250 | | | | | 1.105 | 1.07 | 10 | |
| Vanadium | 0.005708 | 0.0250 | | | | | 0.005948 | 0 | 10 | J |
| Zinc | U | 0.0500 | | | | | 0.005774 | 0 | 10 | |

**SD** Sample ID: **HS25110720-16SD** Units: **mg/L** Analysis Date: **02-Dec-2025 14:25**
Client ID: Run ID: **ICPMS07_527437** SeqNo: **9171010** PrepDate: **26-Nov-2025** DF: **2500**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 1374 | 1250 | | | | | 1237 | 0 | 10 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-06 | HS25110862-07 | HS25110862-08 |
| HS25110862-09 | HS25110862-10 | HS25110862-16 | HS25110862-17 |
| HS25110862-18 | HS25110862-19 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236165 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-236165** Units: **mg/L** Analysis Date: **03-Dec-2025 10:24**
Client ID: Run ID: **ICPMS06_527536** SeqNo: **9172542** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | | |
| Barium | U | 0.00500 | | | | | | | | |
| Calcium | U | 0.500 | | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | | |
| Iron | U | 0.200 | | | | | | | | |
| Lead | U | 0.00200 | | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | | |
| Potassium | U | 0.500 | | | | | | | | |
| Sodium | U | 0.500 | | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | | |

**LCS** Sample ID: **LCS-236165** Units: **mg/L** Analysis Date: **03-Dec-2025 10:26**
Client ID: Run ID: **ICPMS06_527536** SeqNo: **9172543** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05056 | 0.00200 | 0.05 | 0 | 101 | 80 - 120 | | | | |
| Barium | 0.04874 | 0.00500 | 0.05 | 0 | 97.5 | 80 - 120 | | | | |
| Calcium | 5.166 | 0.500 | 5 | 0 | 103 | 80 - 120 | | | | |
| Chromium | 0.05247 | 0.00500 | 0.05 | 0 | 105 | 80 - 120 | | | | |
| Iron | 4.966 | 0.200 | 5 | 0 | 99.3 | 80 - 120 | | | | |
| Lead | 0.0489 | 0.00200 | 0.05 | 0 | 97.8 | 80 - 120 | | | | |
| Magnesium | 5.049 | 0.200 | 5 | 0 | 101 | 80 - 120 | | | | |
| Manganese | 0.0518 | 0.00500 | 0.05 | 0 | 104 | 80 - 120 | | | | |
| Nickel | 0.05167 | 0.00500 | 0.05 | 0 | 103 | 80 - 120 | | | | |
| Potassium | 5.063 | 0.500 | 5 | 0 | 101 | 80 - 120 | | | | |
| Sodium | 4.971 | 0.500 | 5 | 0 | 99.4 | 80 - 120 | | | | |
| Strontium | 0.0984 | 0.00500 | 0.1 | 0 | 98.4 | 80 - 120 | | | | |
| Vanadium | 0.05266 | 0.00500 | 0.05 | 0 | 105 | 80 - 120 | | | | |
| Zinc | 0.0535 | 0.0100 | 0.05 | 0 | 107 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236165 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25111051-02MS** Units: **mg/L** Analysis Date: **03-Dec-2025 10:35**
Client ID: Run ID: **ICPMS06_527536** SeqNo: **9172547** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05291 | 0.00200 | 0.05 | 0.000912 | 104 | 80 - 120 | | | | |
| Barium | 0.08935 | 0.00500 | 0.05 | 0.03992 | 98.9 | 80 - 120 | | | | |
| Calcium | 17.23 | 0.500 | 5 | 12.18 | 101 | 80 - 120 | | | | |
| Chromium | 0.05426 | 0.00500 | 0.05 | 0.002179 | 104 | 80 - 120 | | | | |
| Iron | 6.245 | 0.200 | 5 | 1.173 | 101 | 80 - 120 | | | | |
| Lead | 0.05012 | 0.00200 | 0.05 | 0.000252 | 99.7 | 80 - 120 | | | | |
| Magnesium | 6.022 | 0.200 | 5 | 0.8148 | 104 | 80 - 120 | | | | |
| Manganese | 0.1802 | 0.00500 | 0.05 | 0.1269 | 107 | 80 - 120 | | | | |
| Nickel | 0.0521 | 0.00500 | 0.05 | 0.001426 | 101 | 80 - 120 | | | | |
| Potassium | 20.41 | 0.500 | 5 | 15.22 | 104 | 80 - 120 | | | | |
| Sodium | 193.4 | 0.500 | 5 | 185.2 | 165 | 80 - 120 | | | | SEO |
| Strontium | 0.148 | 0.00500 | 0.1 | 0.05015 | 97.8 | 80 - 120 | | | | |
| Vanadium | 0.05596 | 0.00500 | 0.05 | 0.001743 | 108 | 80 - 120 | | | | |
| Zinc | 0.1346 | 0.0100 | 0.05 | 0.07824 | 113 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25111051-02MSD** Units: **mg/L** Analysis Date: **03-Dec-2025 10:37**
Client ID: Run ID: **ICPMS06_527536** SeqNo: **9172548** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05299 | 0.00200 | 0.05 | 0.000912 | 104 | 80 - 120 | 0.05291 | 0.145 | 20 | |
| Barium | 0.08962 | 0.00500 | 0.05 | 0.03992 | 99.4 | 80 - 120 | 0.08935 | 0.299 | 20 | |
| Calcium | 17.54 | 0.500 | 5 | 12.18 | 107 | 80 - 120 | 17.23 | 1.79 | 20 | |
| Chromium | 0.05437 | 0.00500 | 0.05 | 0.002179 | 104 | 80 - 120 | 0.05426 | 0.217 | 20 | |
| Iron | 6.266 | 0.200 | 5 | 1.173 | 102 | 80 - 120 | 6.245 | 0.336 | 20 | |
| Lead | 0.04982 | 0.00200 | 0.05 | 0.000252 | 99.1 | 80 - 120 | 0.05012 | 0.59 | 20 | |
| Magnesium | 6.057 | 0.200 | 5 | 0.8148 | 105 | 80 - 120 | 6.022 | 0.582 | 20 | |
| Manganese | 0.1782 | 0.00500 | 0.05 | 0.1269 | 103 | 80 - 120 | 0.1802 | 1.11 | 20 | |
| Nickel | 0.05212 | 0.00500 | 0.05 | 0.001426 | 101 | 80 - 120 | 0.0521 | 0.0345 | 20 | |
| Potassium | 20.7 | 0.500 | 5 | 15.22 | 109 | 80 - 120 | 20.41 | 1.41 | 20 | |
| Sodium | 189.7 | 0.500 | 5 | 185.2 | 91.2 | 80 - 120 | 193.4 | 1.92 | 20 | EO |
| Strontium | 0.1461 | 0.00500 | 0.1 | 0.05015 | 96.0 | 80 - 120 | 0.148 | 1.25 | 20 | |
| Vanadium | 0.05609 | 0.00500 | 0.05 | 0.001743 | 109 | 80 - 120 | 0.05596 | 0.234 | 20 | |
| Zinc | 0.1321 | 0.0100 | 0.05 | 0.07824 | 108 | 80 - 120 | 0.1346 | 1.91 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236165 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25111051-02PDS** Units: **mg/L** Analysis Date: **03-Dec-2025 10:39**
Client ID: Run ID: **ICPMS06_527536** SeqNo: **9172549** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.1097 | 0.00200 | 0.1 | 0.000912 | 109 | 75 - 125 | | | | |
| Barium | 0.1419 | 0.00500 | 0.1 | 0.03992 | 102 | 75 - 125 | | | | |
| Calcium | 23.01 | 0.500 | 10 | 12.18 | 108 | 75 - 125 | | | | |
| Chromium | 0.1108 | 0.00500 | 0.1 | 0.002179 | 109 | 75 - 125 | | | | |
| Iron | 11.7 | 0.200 | 10 | 1.173 | 105 | 75 - 125 | | | | |
| Lead | 0.1061 | 0.00200 | 0.1 | 0.000252 | 106 | 75 - 125 | | | | |
| Magnesium | 11.8 | 0.200 | 10 | 0.8148 | 110 | 75 - 125 | | | | |
| Manganese | 0.236 | 0.00500 | 0.1 | 0.1269 | 109 | 75 - 125 | | | | |
| Nickel | 0.1073 | 0.00500 | 0.1 | 0.001426 | 106 | 75 - 125 | | | | |
| Potassium | 26.69 | 0.500 | 10 | 15.22 | 115 | 75 - 125 | | | | |
| Strontium | 0.1532 | 0.00500 | 0.1 | 0.05015 | 103 | 75 - 125 | | | | |
| Vanadium | 0.1138 | 0.00500 | 0.1 | 0.001743 | 112 | 75 - 125 | | | | |
| Zinc | 0.1953 | 0.0100 | 0.1 | 0.07824 | 117 | 75 - 125 | | | | |

**PDS** Sample ID: **HS25111051-02PDS** Units: **mg/L** Analysis Date: **03-Dec-2025 12:50**
Client ID: Run ID: **ICPMS06_527536** SeqNo: **9172808** PrepDate: **01-Dec-2025** DF: **20**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 391.4 | 10.0 | 200 | 193.5 | 98.9 | 75 - 125 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236165 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**SD** Sample ID: **HS25111051-02SD** Units: **mg/L** Analysis Date: **03-Dec-2025 10:28**
Client ID: Run ID: **ICPMS06_527536** SeqNo: **9172544** PrepDate: **01-Dec-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.0100 | | | | | 0.000912 | 0 | 10 | |
| Barium | 0.03861 | 0.0250 | | | | | 0.03992 | 3.27 | 10 | |
| Calcium | 12.13 | 2.50 | | | | | 12.18 | 0.438 | 10 | |
| Chromium | U | 0.0250 | | | | | 0.002179 | 0 | 10 | |
| Iron | 1.21 | 1.00 | | | | | 1.173 | 3.12 | 10 | |
| Lead | U | 0.0100 | | | | | 0.000252 | 0 | 10 | |
| Magnesium | 0.8666 | 1.00 | | | | | 0.8148 | 0 | 10 | J |
| Manganese | 0.1344 | 0.0250 | | | | | 0.1269 | 5.92 | 10 | |
| Nickel | U | 0.0250 | | | | | 0.001426 | 0 | 10 | |
| Potassium | 14.98 | 2.50 | | | | | 15.22 | 1.62 | 10 | |
| Strontium | 0.05047 | 0.0250 | | | | | 0.05015 | 0.636 | 10 | |
| Vanadium | U | 0.0250 | | | | | 0.001743 | 0 | 10 | |
| Zinc | 0.08282 | 0.0500 | | | | | 0.07824 | 5.85 | 10 | |

**SD** Sample ID: **HS25111051-02SD** Units: **mg/L** Analysis Date: **03-Dec-2025 12:48**
Client ID: Run ID: **ICPMS06_527536** SeqNo: **9172807** PrepDate: **01-Dec-2025** DF: **100**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 203.9 | 50.0 | | | | | 193.5 | 5.33 | 10 | |

**The following samples were analyzed in this batch:** HS25110862-20



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236170 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-236170** Units: **mg/L** Analysis Date: **01-Dec-2025 18:14**
Client ID: Run ID: **HG05_527404** SeqNo: **9169264** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | U | 0.000200 | | | | | | | | |

**LCS** Sample ID: **LCS-236170** Units: **mg/L** Analysis Date: **01-Dec-2025 18:16**
Client ID: Run ID: **HG05_527404** SeqNo: **9169265** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00465 | 0.000200 | 0.005 | 0 | 93.0 | 80 - 120 | | | | |

**MS** Sample ID: **HS25110962-07MS** Units: **mg/L** Analysis Date: **01-Dec-2025 18:40**
Client ID: Run ID: **HG05_527404** SeqNo: **9169276** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000558 | 0.000200 | 0.005 | -0.000027 | 11.7 | 75 - 125 | | | | S |

**MSD** Sample ID: **HS25110962-07MSD** Units: **mg/L** Analysis Date: **01-Dec-2025 18:41**
Client ID: Run ID: **HG05_527404** SeqNo: **9169277** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000537 | 0.000200 | 0.005 | -0.000027 | 11.3 | 75 - 125 | 0.000558 | 3.84 | 20 | S |

**The following samples were analyzed in this batch:** HS25110862-01 HS25110862-02 HS25110862-03 HS25110862-04 HS25110862-05 HS25110862-06 HS25110862-07



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: 236172 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-236172** Units: **mg/L** Analysis Date: **01-Dec-2025 19:14**
Client ID: Run ID: **HG05_527404** SeqNo: **9169326** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | U | 0.000200 | | | | | | | | |

**LCS** Sample ID: **LCS-236172** Units: **mg/L** Analysis Date: **01-Dec-2025 19:15**
Client ID: Run ID: **HG05_527404** SeqNo: **9169327** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0052 | 0.000200 | 0.005 | 0 | 104 | 80 - 120 | | | | |

**MS** Sample ID: **HS25110862-08MS** Units: **mg/L** Analysis Date: **01-Dec-2025 19:19**
Client ID: **MW-3-200** Run ID: **HG05_527404** SeqNo: **9169329** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00487 | 0.000200 | 0.005 | -0.000025 | 97.9 | 75 - 125 | | | | |

**MSD** Sample ID: **HS25110862-08MSD** Units: **mg/L** Analysis Date: **01-Dec-2025 19:26**
Client ID: **MW-3-200** Run ID: **HG05_527404** SeqNo: **9169331** PrepDate: **01-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00501 | 0.000200 | 0.005 | -0.000025 | 101 | 75 - 125 | 0.00487 | 2.83 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-08 | HS25110862-09 | HS25110862-10 | HS25110862-16 |
| HS25110862-17 | HS25110862-18 | HS25110862-19 | HS25110862-20 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526971 ( 0 )** **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251121** Units: **mg/L** Analysis Date: **21-Nov-2025 15:02**
Client ID: Run ID: **VOA4_526971** SeqNo: **9159561** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *101* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.8* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS-251121** Units: **mg/L** Analysis Date: **21-Nov-2025 13:59**
Client ID: Run ID: **VOA4_526971** SeqNo: **9159554** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.019 | 0.0010 | 0.02 | 0 | 96.0 | 74 - 120 | | | | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 101 | 77 - 117 | | | | |
| m,p-Xylene | 0.039 | 0.0040 | 0.04 | 0 | 97.8 | 77 - 122 | | | | |
| o-Xylene | 0.020 | 0.0020 | 0.02 | 0 | 101 | 75 - 119 | | | | |
| Toluene | 0.020 | 0.0020 | 0.02 | 0 | 98.0 | 77 - 118 | | | | |
| Xylenes, Total | 0.059 | 0.0060 | 0.06 | 0 | 98.8 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.050* | *0.0010* | *0.05* | *0* | *99.1* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *99.7* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526971 ( 0 )** **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD-251121** Units: **mg/L** Analysis Date: **21-Nov-2025 14:20**
Client ID: Run ID: **VOA4_526971** SeqNo: **9159560** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.019 | 0.0010 | 0.02 | 0 | 93.4 | 74 - 120 | 0.01921 | 2.79 | 20 | |
| Ethylbenzene | 0.019 | 0.0020 | 0.02 | 0 | 94.5 | 77 - 117 | 0.02013 | 6.32 | 20 | |
| m,p-Xylene | 0.037 | 0.0040 | 0.04 | 0 | 93.2 | 77 - 122 | 0.03913 | 4.85 | 20 | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0 | 94.5 | 75 - 119 | 0.02017 | 6.5 | 20 | |
| Toluene | 0.018 | 0.0020 | 0.02 | 0 | 91.4 | 77 - 118 | 0.01960 | 6.94 | 20 | |
| Xylenes, Total | 0.056 | 0.0060 | 0.06 | 0 | 93.6 | 75 - 122 | 0.05930 | 5.41 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *70 - 123* | *0.05174* | *1* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.044* | *0.0010* | *0.05* | *0* | *88.0* | *77 - 113* | *0.05200* | *16.7* | *20* | |
| *Surr: Dibromofluoromethane* | *0.050* | *0.0010* | *0.05* | *0* | *99.5* | *73 - 126* | *0.04954* | *0.455* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *99.0* | *81 - 120* | *0.04987* | *0.771* | *20* | |

**MS** Sample ID: **HS25110862-20MS** Units: **mg/L** Analysis Date: **21-Nov-2025 22:48**
Client ID: **MW-1-500** Run ID: **VOA4_526971** SeqNo: **9159557** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.019 | 0.0010 | 0.02 | 0 | 95.8 | 70 - 127 | | | | |
| Ethylbenzene | 0.021 | 0.0020 | 0.02 | 0 | 103 | 70 - 124 | | | | |
| m,p-Xylene | 0.040 | 0.0040 | 0.04 | 0 | 99.9 | 70 - 130 | | | | |
| o-Xylene | 0.020 | 0.0020 | 0.02 | 0 | 102 | 70 - 124 | | | | |
| Toluene | 0.019 | 0.0020 | 0.02 | 0 | 97.4 | 70 - 123 | | | | |
| Xylenes, Total | 0.060 | 0.0060 | 0.06 | 0 | 100 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.044* | *0.0010* | *0.05* | *0* | *88.9* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.046* | *0.0010* | *0.05* | *0* | *92.2* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *82 - 127* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526971 ( 0 )** **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MSD** Sample ID: **HS25110862-20MSD** Units: **mg/L** Analysis Date: **21-Nov-2025 23:09**
Client ID: **MW-1-500** Run ID: **VOA4_526971** SeqNo: **9159558** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.016 | 0.0010 | 0.02 | 0 | 77.9 | 70 - 127 | 0.01916 | 20.6 | 20 | R |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 99.4 | 70 - 124 | 0.02068 | 3.9 | 20 | |
| m,p-Xylene | 0.035 | 0.0040 | 0.04 | 0 | 88.6 | 70 - 130 | 0.03995 | 12 | 20 | |
| o-Xylene | 0.018 | 0.0020 | 0.02 | 0 | 87.6 | 70 - 124 | 0.02032 | 14.8 | 20 | |
| Toluene | 0.020 | 0.0020 | 0.02 | 0 | 101 | 70 - 123 | 0.01948 | 3.7 | 20 | |
| Xylenes, Total | 0.053 | 0.0060 | 0.06 | 0 | 88.2 | 70 - 130 | 0.06027 | 13 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.041* | *0.0010* | *0.05* | *0* | *81.3* | *70 - 126* | *0.04443* | *8.94* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.047* | *0.0010* | *0.05* | *0* | *93.9* | *77 - 113* | *0.04612* | *1.76* | *20* | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.4* | *77 - 123* | *0.05099* | *4.61* | *20* | |
| *Surr: Toluene-d8* | *0.054* | *0.0010* | *0.05* | *0* | *109* | *82 - 127* | *0.05166* | *5.06* | *20* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-06 | HS25110862-07 | HS25110862-08 |
| HS25110862-09 | HS25110862-10 | HS25110862-11 | HS25110862-12 |
| HS25110862-13 | HS25110862-14 | HS25110862-15 | HS25110862-16 |
| HS25110862-17 | HS25110862-18 | HS25110862-19 | HS25110862-20 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526819 ( 0 )** **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

**MBLK** Sample ID: **MBLK-R526819** Units: **mg/L** Analysis Date: **20-Nov-2025 16:00**
Client ID: Run ID: **WetChem_HS_526819** SeqNo: **9155468** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R526819** Units: **mg/L** Analysis Date: **20-Nov-2025 16:00**
Client ID: Run ID: **WetChem_HS_526819** SeqNo: **9155467** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.76 | 5.00 | 25 | 0 | 95.0 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-R526819** Units: **mg/L** Analysis Date: **20-Nov-2025 16:00**
Client ID: Run ID: **WetChem_HS_526819** SeqNo: **9155466** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.56 | 5.00 | 25 | 0 | 94.2 | 85 - 115 | 23.76 | 0.845 | 20 | |

**MS** Sample ID: **HS25110862-18MS** Units: **mg/L** Analysis Date: **20-Nov-2025 16:00**
Client ID: **019-995** Run ID: **WetChem_HS_526819** SeqNo: **9155469** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.56 | 5.00 | 25 | -0.64 | 92.8 | 80 - 120 | | | | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-06 | HS25110862-07 | HS25110862-08 |
| HS25110862-09 | HS25110862-10 | HS25110862-16 | HS25110862-17 |
| HS25110862-18 | HS25110862-19 | HS25110862-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526820 ( 0 )** **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

**MBLK** Sample ID: **MBLK-R526820** Units: **mg/L** Analysis Date: **20-Nov-2025 16:00**
Client ID: Run ID: **WetChem_HS_526820** SeqNo: **9155487** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | U | 1.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R526820** Units: **mg/L** Analysis Date: **20-Nov-2025 16:00**
Client ID: Run ID: **WetChem_HS_526820** SeqNo: **9155486** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.24 | 1.00 | 26.56 | 0 | 95.0 | 80 - 120 | | | | |

**LCSD** Sample ID: **LCSD-R526820** Units: **mg/L** Analysis Date: **20-Nov-2025 16:00**
Client ID: Run ID: **WetChem_HS_526820** SeqNo: **9155485** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.03 | 1.00 | 26.56 | 0 | 94.2 | 80 - 120 | 25.24 | 0.845 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-06 | HS25110862-07 | HS25110862-08 |
| HS25110862-09 | HS25110862-10 | HS25110862-16 | HS25110862-17 |
| HS25110862-18 | HS25110862-19 | HS25110862-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526824 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-11.20.2025** Units: **mg/L** Analysis Date: **20-Nov-2025 15:49**
Client ID: Run ID: **Skalar 03_526824** SeqNo: **9155547** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-11.20.2025** Units: **mg/L** Analysis Date: **20-Nov-2025 15:55**
Client ID: Run ID: **Skalar 03_526824** SeqNo: **9155548** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 961 | 5.00 | 1000 | 0 | 96.1 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-11.20.2025** Units: **mg/L** Analysis Date: **20-Nov-2025 16:01**
Client ID: Run ID: **Skalar 03_526824** SeqNo: **9155549** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 965.4 | 5.00 | 1000 | 0 | 96.5 | 85 - 115 | 961 | 0.457 | 20 | |

**DUP** Sample ID: **HS25110907-01DUP** Units: **mg/L** Analysis Date: **20-Nov-2025 16:16**
Client ID: Run ID: **Skalar 03_526824** SeqNo: **9155552** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | 94 | 5.00 | | | | | 97.2 | 3.35 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | 0 | 0 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-06 | HS25110862-07 | HS25110862-08 |
| HS25110862-09 | HS25110862-10 | HS25110862-16 | HS25110862-17 |
| HS25110862-18 | HS25110862-19 | HS25110862-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID:** **R526826 ( 0 )** **Instrument:** **WetChem_HS** **Method:** **PH BY SM4500H+ B**

**DUP** Sample ID: **HS25110862-02DUP** Units: **pH Units** Analysis Date: **20-Nov-2025 19:30**
Client ID: **LDNR-04** Run ID: **WetChem_HS_526826** SeqNo: **9155607** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.8 | 1.00 | | | | | 7.8 | 0 | 10 | |
| Temp Deg C @pH | 21 | 0 | | | | | 21.2 | 0.948 | 10 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-06 | HS25110862-07 | HS25110862-08 |
| HS25110862-09 | HS25110862-10 | HS25110862-16 | HS25110862-17 |
| HS25110862-18 | HS25110862-19 | HS25110862-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526889 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-11212025** Units: **mg/L** Analysis Date: **21-Nov-2025 07:40**
Client ID: Run ID: **Balance1_526889** SeqNo: **9157123** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-11212025** Units: **mg/L** Analysis Date: **21-Nov-2025 07:40**
Client ID: Run ID: **Balance1_526889** SeqNo: **9157122** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1076 | 10.0 | 1000 | 0 | 108 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25110797-05DUP** Units: **mg/L** Analysis Date: **21-Nov-2025 07:40**
Client ID: Run ID: **Balance1_526889** SeqNo: **9157111** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 428 | 10.0 | | | | | 426 | 0.468 | 20 | |

**DUP** Sample ID: **HS25110761-07DUP** Units: **mg/L** Analysis Date: **21-Nov-2025 07:40**
Client ID: Run ID: **Balance1_526889** SeqNo: **9157101** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 898 | 10.0 | | | | | 888 | 1.12 | 20 | |

**The following samples were analyzed in this batch:** HS25110862-01 HS25110862-02 HS25110862-03 HS25110862-04



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R526890 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-11212025** Units: **mg/L** Analysis Date: **21-Nov-2025 08:05**
Client ID: Run ID: **Balance1_526890** SeqNo: **9156990** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-11212025** Units: **mg/L** Analysis Date: **21-Nov-2025 08:05**
Client ID: Run ID: **Balance1_526890** SeqNo: **9156989** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 992 | 10.0 | 1000 | 0 | 99.2 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25110910-02DUP** Units: **mg/L** Analysis Date: **21-Nov-2025 08:05**
Client ID: Run ID: **Balance1_526890** SeqNo: **9156974** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 480 | 10.0 | | | | | 490 | 2.06 | 20 | |

**DUP** Sample ID: **HS25110781-04DUP** Units: **mg/L** Analysis Date: **21-Nov-2025 08:05**
Client ID: Run ID: **Balance1_526890** SeqNo: **9156971** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 414 | 10.0 | | | | | 408 | 1.46 | 20 | |

**The following samples were analyzed in this batch:** HS25110862-05



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID:** R526952 ( 0 ) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **20-Nov-2025 14:55**
Client ID: Run ID: **ICS-04_526952** SeqNo: **9158980** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | 0.100 | | | | | | | | |
| Chloride | U | 0.500 | | | | | | | | |
| Sulfate | U | 0.500 | | | | | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **20-Nov-2025 15:14**
Client ID: Run ID: **ICS-04_526952** SeqNo: **9158981** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 3.788 | 0.100 | 4 | 0 | 94.7 | 80 - 120 | | | | |
| Chloride | 20.82 | 0.500 | 20 | 0 | 104 | 80 - 120 | | | | |
| Sulfate | 21.54 | 0.500 | 20 | 0 | 108 | 80 - 120 | | | | |

**MS** Sample ID: **HS25110862-01MS** Units: **mg/L** Analysis Date: **20-Nov-2025 15:42**
Client ID: **LDNR-24** Run ID: **ICS-04_526952** SeqNo: **9158984** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 16.52 | 1.00 | 20 | 0 | 82.6 | 80 - 120 | | | | |
| Chloride | 447.7 | 5.00 | 100 | 349.5 | 98.2 | 80 - 120 | | | | |
| Sulfate | 149.4 | 5.00 | 100 | 48.82 | 101 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25110862-01MSD** Units: **mg/L** Analysis Date: **20-Nov-2025 15:51**
Client ID: **LDNR-24** Run ID: **ICS-04_526952** SeqNo: **9158985** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 16.54 | 1.00 | 20 | 0 | 82.7 | 80 - 120 | 16.52 | 0.115 | 20 | |
| Chloride | 446.5 | 5.00 | 100 | 349.5 | 97.0 | 80 - 120 | 447.7 | 0.257 | 20 | |
| Sulfate | 148.7 | 5.00 | 100 | 48.82 | 99.9 | 80 - 120 | 149.4 | 0.455 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25110862-01 | HS25110862-02 | HS25110862-03 | HS25110862-04 |
| HS25110862-05 | HS25110862-06 | HS25110862-07 | HS25110862-08 |
| HS25110862-09 | HS25110862-10 | HS25110862-16 | HS25110862-17 |
| HS25110862-18 | HS25110862-19 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R527039 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-11242025** Units: **mg/L** Analysis Date: **24-Nov-2025 09:13**
Client ID: Run ID: **Balance1_527039** SeqNo: **9160943** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-11242025** Units: **mg/L** Analysis Date: **24-Nov-2025 09:13**
Client ID: Run ID: **Balance1_527039** SeqNo: **9160942** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1024 | 10.0 | 1000 | 0 | 102 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25110954-01DUP** Units: **mg/L** Analysis Date: **24-Nov-2025 09:13**
Client ID: Run ID: **Balance1_527039** SeqNo: **9160929** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1236 | 10.0 | | | | | 1224 | 0.976 | 20 | |

**DUP** Sample ID: **HS25110862-09DUP** Units: **mg/L** Analysis Date: **24-Nov-2025 09:13**
Client ID: **MW-3-700** Run ID: **Balance1_527039** SeqNo: **9160927** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 3950 | 10.0 | | | | | 3900 | 1.27 | 20 | |

**The following samples were analyzed in this batch:** HS25110862-06 HS25110862-07 HS25110862-08 HS25110862-09



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R527040 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-11242025** Units: **mg/L** Analysis Date: **24-Nov-2025 09:50**
Client ID: Run ID: **Balance1_527040** SeqNo: **9160967** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-11242025** Units: **mg/L** Analysis Date: **24-Nov-2025 09:50**
Client ID: Run ID: **Balance1_527040** SeqNo: **9160966** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1004 | 10.0 | 1000 | 0 | 100 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25110885-04DUP** Units: **mg/L** Analysis Date: **24-Nov-2025 09:50**
Client ID: Run ID: **Balance1_527040** SeqNo: **9160965** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1564 | 10.0 | | | | | 1572 | 0.51 | 20 | |

**DUP** Sample ID: **HS25110862-10DUP** Units: **mg/L** Analysis Date: **24-Nov-2025 09:50**
Client ID: **Cottages** Run ID: **Balance1_527040** SeqNo: **9160945** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 314 | 10.0 | | | | | 306 | 2.58 | 20 | |

**The following samples were analyzed in this batch:** HS25110862-10 HS25110862-16 HS25110862-17 HS25110862-18



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R527073 ( 0 )** **Instrument: ICS-04** **Method: ANIONS BY SW9056A**

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **24-Nov-2025 09:40**
Client ID: Run ID: **ICS-04_527073** SeqNo: **9161779** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | 0.100 | | | | | | | | |
| Chloride | U | 0.500 | | | | | | | | |
| Sulfate | U | 0.500 | | | | | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **24-Nov-2025 09:52**
Client ID: Run ID: **ICS-04_527073** SeqNo: **9161780** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 3.846 | 0.100 | 4 | 0 | 96.1 | 80 - 120 | | | | |
| Chloride | 21.12 | 0.500 | 20 | 0 | 106 | 80 - 120 | | | | |
| Sulfate | 22.06 | 0.500 | 20 | 0 | 110 | 80 - 120 | | | | |

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **24-Nov-2025 13:30**
Client ID: Run ID: **ICS-04_527073** SeqNo: **9161804** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.711 | 0.100 | 2 | 0.067 | 82.2 | 80 - 120 | | | | |
| Chloride | 48.31 | 0.500 | 10 | 38.83 | 94.8 | 80 - 120 | | | | |
| Sulfate | 10.79 | 0.500 | 10 | 1.32 | 94.7 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **24-Nov-2025 13:36**
Client ID: Run ID: **ICS-04_527073** SeqNo: **9161805** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.707 | 0.100 | 2 | 0.067 | 82.0 | 80 - 120 | 1.711 | 0.24 | 20 | |
| Chloride | 48 | 0.500 | 10 | 38.83 | 91.7 | 80 - 120 | 48.31 | 0.635 | 20 | |
| Sulfate | 10.71 | 0.500 | 10 | 1.32 | 93.9 | 80 - 120 | 10.79 | 0.787 | 20 | |

**The following samples were analyzed in this batch:** HS25110862-02 HS25110862-20



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25110862

**QC BATCH REPORT**

**Batch ID: R527149 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-11252025** Units: **mg/L** Analysis Date: **25-Nov-2025 08:28**
Client ID: Run ID: **Balance1_527149** SeqNo: **9163546** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-11252025** Units: **mg/L** Analysis Date: **25-Nov-2025 08:28**
Client ID: Run ID: **Balance1_527149** SeqNo: **9163545** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1114 | 10.0 | 1000 | 0 | 111 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25111066-10DUP** Units: **mg/L** Analysis Date: **25-Nov-2025 08:28**
Client ID: Run ID: **Balance1_527149** SeqNo: **9163544** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1116 | 10.0 | | | | | 1128 | 1.07 | 20 | |

**DUP** Sample ID: **HS25110885-05DUP** Units: **mg/L** Analysis Date: **25-Nov-2025 08:28**
Client ID: Run ID: **Balance1_527149** SeqNo: **9163529** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1044 | 10.0 | | | | | 1040 | 0.384 | 20 | |

**The following samples were analyzed in this batch:** HS25110862-19 HS25110862-20



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** **HS25110862**

**QUALIFIERS, ACRONYMS, UNITS**

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| M | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL/SDL |

| Acronym | Description |
|---|---|
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |
| SDL | Sample Detection Limit |
| TRRP | Texas Risk Reduction Program |

| Unit Reported | Description |
|---|---|
| mg/L | Milligrams per Liter |



RIGHT SOLUTIONS | RIGHT PARTNER

## CERTIFICATIONS,ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|---|---|---|
| Arizona | AZ0793 | 27-May-2026 |
| Arkansas | 88-00356_2024 | 17-Mar-2026 |
| California | 2919 - 2025 | 30-Apr-2026 |
| Dept of Defense | L24-240-R4 | 30-Apr-2026 |
| Dept of Defense | L24-239-R1 | 30-Apr-2026 |
| Florida | E87611-2025 | 30-Jun-2026 |
| Illinois | 200032 - 2025 | 31-Jul-2026 |
| Kansas | KS-C25-00168 | 31-Jul-2026 |
| Kentucky | 123043-2025 | 30-Apr-2026 |
| Louisiana | 03087-2025 | 30-Jun-2026 |
| Maine | 2024017 | 23-Jun-2026 |
| Maryland | 343-2025-26 | 30-Jun-2026 |
| Michigan | 9971-2025 | 30-Apr-2026 |
| Minnesota | 2856348 | 31-Dec-2025 |
| Missouri | 136 | 30-Sep-2026 |
| Nebraska | NE-OS-25-13 - 2025 | 30-Apr-2026 |
| Nevada | NV-C25-00124 - 2025 | 31-Jul-2026 |
| New Hampshire | 209425 | 24-Apr-2026 |
| New Jersey | TX008-2025 | 30-Jun-2026 |
| New York | 11707 - 2025 | 01-Apr-2026 |
| North Carolina | 624 - 2024 | 31-Dec-2025 |
| Oklahoma | 2023-140 | 31-Dec-2025 |
| Oregon | TX200002-013 | 15-May-2026 |
| Pennsylvania | 019 | 01-Jul-2026 |
| Tennessee | TN | 30-Apr-2026 |
| Texas | TX-C25-00104 | 30-Apr-2026 |
| Utah | TX026932025-17 | 31-Jul-2026 |



RIGHT SOLUTIONS | RIGHT PARTNER

## Sample Receipt Checklist

**Work Order ID:** HS25110862 **Date/Time Received:** 19-Nov-2025 12:47

**Client Name:** ERMSW-HOU **Received by:** Si Ma

| **Completed By:** | /S/ Edgar Zheku | 19-Nov-2025 17:32 | **Reviewed by:** | /S/ Beverly Mustafa | 20-Nov-2025 08:19 |
|---|---|---|---|---|---|
| | eSignature | Date/Time | | eSignature | Date/Time |

Matrices: w Carrier name: ALS Courier

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | 3 Page(s) |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | COC IDs:352001, 340040, 351995 |
| Samplers name present on COC? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |

| | | |
|---|---|---|
| Temperature(s)/Thermometer(s): | 0.5uc/0.5c, 0.8uc/0.8c, 0.3uc/0.3c, 0.7uc/0.7c, 1.2uc/1.2c | ir 34 |
| Cooler(s)/Kit(s): | 53970, 53944, 54799, 54832, 49395 | |
| Date/Time sample(s) sent to storage: | 11/19/2025 17:32 | |

| | | | |
|---|---|---|---|
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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Holland, MI +1 616 399 6070

# Chain of Custody Form

Page 1 of 3

COC ID: 340040

**HS25110862**

Environmental Resources Mgmt.

Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | |
|---|---|---|---|
| Purchase Order | 0777906 | Project Name | Sulphur Dome |
| Work Order | | Project Number | |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com |

| | |
|---|---|
| A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| C | HG_W (Mercury) |
| D | MA EPH_W_La (MA EPH) |
| E | MA VPH_LA_W |
| F | 9056_anions_W (Cl,SO4,Br) / pH |
| G | ALK_W 2320B (carb, bicarb) |
| H | H2S_W (H2S) |
| I | SULFD_4500S F (Sulfide) |
| J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LDNR-24 | 11/17/25 | 1145 | GW | 1,2,4,8 | 11 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 2 | LDNR-04 | 1 | 1215 | 1 | 1 | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 3 | LDNR-26 | 11/17/25 | 1245 | GW | 1,2,4,8 | 11 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 4 | MW-1-200 | 11/17/25 | 1605 | W | 1,2,4,8 | 11 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 5 | FB-111725 | 11/17/25 | 1600 | W | | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 6 | MW-3-800 | 11/18/25 | 0930 | | | | | | | | | | | | | | |
| 7 | FB-111825 | ↓ | 0900 | | | | | | | | | | | | | | |
| 8 | MW-3-200 | | 1110 | | | | | | | | | | | | | | |
| 9 | MW-3-700 | | 1910 | | | | | | | | | | | | | | |
| 10 | Cottages | ↓ | 1500 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |

Sampler(s) Please Print & Sign: Taylor Brown

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

| Relinquished by: | Date: | Time: | Received by: |
|---|---|---|---|
| Zedric Capus | 11/18/25 | | |
| Zedric Capus | 11/19/25 | 0905 | |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): |
| | 11/19/25 | 1217 | SM 11/19/25 12:47 |

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| 53970 | 0.5 |
| 53944 | 0.8 |
| 54799 | 0.3 |
| 54832 | 1.2 |
| 54834 | 0.7 |

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SVM46/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

# Chain of Custody Form



COC ID: 351995

ALS Project Manager: | ALS Work Order #:

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC: (8260) BTEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CG-103025-273 | X | X | W | 1 | 2 | ✓ | | | | | | | | | | |
| 2 | CG-100125-375 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 3 | CG-103025-284 | | | | | | | | | | | | | | | | |
| 4 | CG-103025-276 | | | | | | | | | | | | | | | | |
| 5 | CG-103025-272 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

HS25110862
Environmental Resources Mgmt.
Sulphur Dome

Sampler(s) Please Print & Sign: Taylor Brown

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

| | | | | |
|---|---|---|---|---|
| Relinquished by: Zedric Capus | Date: 11/18/25 | Time: | Received by: | |
| Relinquished by: Zedric Capus | Date: 11/19/25 | Time: 0905 | Received by (Laboratory): | |
| Logged by (Laboratory): | Date: 11-19-25 | Time: 1217 | Checked by (Laboratory): 11/19/25 12:47 | |

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| | |
| | |
| | |

QC Package: (Check One Box Below)
- ☒ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

# Chain of Custody Form



COC ID: 352001

ALS Project Manager: | ALS Work Order #:

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 019-S80 | 11/18/25 | 1530 | W | 1,2,4,8 | 11 | | | | | | | | | | | |
| 2 | GW-Rinsate | ↓ | 1430 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 3 | 019-995 | | 1530 | | | | | | | | | | | | | | |
| 4 | FB-111925 | 11/19/25 | 815 | | | | | | | | | | | | | | |
| 5 | MW-1-500 | 11/19/25 | 0845 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

**HS25110862**
Environmental Resources Mgmt.
Sulphur Dome

Sampler(s) Please Print & Sign: Taylor Brown

Shipment Method:

Required Turnaround Time: [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour

| | | | | |
|---|---|---|---|---|
| Relinquished by: Redric Capps | Date: 11/18/25 | Time: | Received by: | |
| Relinquished by: Redric Capps | Date: 11/19/25 | Time: 0900 | Received by (Laboratory): | |
| Logged by (Laboratory): | Date: 11.19.25 | Time: 1217 | Checked by (Laboratory): SM 11/19/25 12:47 | |

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| | |
| | |
| | |

QC Package: (Check One Box Below)
- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

December 09, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25111009**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 13 sample(s) on Nov 21, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

**Generated By: JUMOKE.LAWAL**
Alexis Dorenbosch
Project Manager

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**Work Order:** HS25111009

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS25111009-01 | 019-582 | Water | | 19-Nov-2025 10:45 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-02 | MW-1-700 | Water | | 19-Nov-2025 10:15 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-03 | 019-1055 | Water | | 19-Nov-2025 11:10 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-04 | MW-2-200 | Water | | 19-Nov-2025 14:20 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-05 | MW-2-700 | Water | | 19-Nov-2025 16:00 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-06 | MW-2-500 | Water | | 20-Nov-2025 09:30 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-07 | 019-1603 | Water | | 20-Nov-2025 07:45 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-08 | FB-112025 | Water | | 20-Nov-2025 08:00 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-09 | GW-DUP | Water | | 20-Nov-2025 09:30 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-10 | CG-103025-293 | Water | CG-103025-29 | 20-Nov-2025 00:00 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-11 | CG-103025-281 | Water | CG-103025-29 | 20-Nov-2025 00:00 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-12 | CG-100125-376 | Water | CG-103025-29 | 20-Nov-2025 00:00 | 21-Nov-2025 09:24 | ☐ |
| HS25111009-13 | CG-103025-277 | Water | CG-103025-29 | 20-Nov-2025 00:00 | 21-Nov-2025 09:24 | ☐ |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25111009

## Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

## GC Semivolatiles by Method MA EPH

### Batch ID: 235963

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GC Volatile Organics by Method MA VPH

### Batch ID: R527236

**Sample ID: HS25110987-08MS**

• MS/MSD was performed on an unrelated sample.

## GC Volatiles by Method MA VPH

### Batch ID: R527240

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GCMS Volatiles by Method SW8260

### Batch ID: R527098

**Sample ID: LCS-251124**

• Toluene failed outside control limits high for LCS/LCSD. Associated samples are ND.

**Sample ID: HS25110999-04MS**

• MS/MSD was performed on an unrelated sample.

### Batch ID: R527096

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## Metals by Method SW6020A

### Batch ID: 236356

**Sample ID: MW-2-500 (HS25111009-06MS)**

• The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Potassium, Sodium.

## Metals by Method SW7470A

### Batch ID: 236349

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25111009

**WetChemistry by Method SW9056**

**Batch ID: R527073**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SM2320B**

**Batch ID: R527150**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SM4500H+ B**

**Batch ID: R527189**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method M2540C**

**Batch ID: R527039**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method E376.1**

**Batch ID: R527016**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SM4500 S2-F**

**Batch ID: R527015**

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 19-Nov-2025 10:45

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 04:31 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 04:31 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 04:31 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 04:31 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 04:31 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 04:31 |
| *Surr: 1,2-Dichloroethane-d4* | *104* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 04:31* |
| *Surr: 4-Bromofluorobenzene* | *101* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 04:31* |
| *Surr: Dibromofluoromethane* | *105* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 04:31* |
| *Surr: Toluene-d8* | *104* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 04:31* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Nov-2025 17:06 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Nov-2025 17:06 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Nov-2025 17:06 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *103* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 17:06* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *103* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 17:06* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 23-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:23 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:23 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:23 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:23 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:23 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:23 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:23 |
| *Surr: 1-Chlorooctadecane* | *68.9* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 23:23* |
| *Surr: 2-Bromonaphthalene* | *78.5* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 23:23* |
| *Surr: 2-Fluorobiphenyl* | *95.9* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 23:23* |
| *Surr: o-Terphenyl* | *82.8* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 23:23* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 19-Nov-2025 10:45

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 05-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.000586** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| **Barium** | **0.225** | | **0.000750** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| **Calcium** | **23.5** | | **0.120** | **0.500** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 08-Dec-2025 13:42 |
| **Iron** | **6.08** | | **0.0600** | **0.200** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 08-Dec-2025 13:42 |
| **Magnesium** | **7.30** | | **0.0408** | **0.200** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| **Manganese** | **0.364** | | **0.00190** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 08-Dec-2025 13:42 |
| **Potassium** | **2.89** | | **0.0869** | **0.500** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| **Sodium** | **36.6** | | **0.130** | **0.500** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| **Strontium** | **0.210** | | **0.000300** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 08-Dec-2025 13:42 |
| **Zinc** | **0.00383** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 08-Dec-2025 13:42 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 05-Dec-2025 14:16 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: SG |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **236** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **116** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:17 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 24-Nov-2025 21:17 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: SG |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.87** | | **0.100** | **1.00** | **pH Units** | 1 | 25-Nov-2025 16:30 |
| **Temp Deg C @pH** | **21.7** | | **0** | **0** | **°C** | 1 | 25-Nov-2025 16:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0766** | J | **0.0300** | **0.100** | **mg/L** | 1 | 24-Nov-2025 12:19 |
| **Chloride** | **39.1** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 12:19 |
| **Sulfate** | **1.96** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 12:19 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 19-Nov-2025 10:15

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 04:53 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 04:53 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 04:53 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 04:53 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 04:53 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 04:53 |
| *Surr: 1,2-Dichloroethane-d4* | *106* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 04:53* |
| *Surr: 4-Bromofluorobenzene* | *98.8* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 04:53* |
| *Surr: Dibromofluoromethane* | *106* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 04:53* |
| *Surr: Toluene-d8* | *104* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 04:53* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Nov-2025 17:45 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Nov-2025 17:45 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Nov-2025 17:45 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *84.8* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 17:45* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *84.8* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 17:45* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 23-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:51 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:51 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:51 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:51 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:51 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:51 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 23:51 |
| *Surr: 1-Chlorooctadecane* | *56.4* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 23:51* |
| *Surr: 2-Bromonaphthalene* | *103* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 23:51* |
| *Surr: 2-Fluorobiphenyl* | *101* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 23:51* |
| *Surr: o-Terphenyl* | *70.6* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 23:51* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 19-Nov-2025 10:15

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 05-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.00162** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| **Barium** | **0.0542** | | **0.000750** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| **Calcium** | **2.55** | | **0.120** | **0.500** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 08-Dec-2025 11:55 |
| **Iron** | **0.646** | | **0.0600** | **0.200** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| **Lead** | **0.000477** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| **Magnesium** | **0.330** | | **0.0408** | **0.200** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| **Manganese** | **0.00798** | | **0.00190** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 08-Dec-2025 11:55 |
| **Potassium** | **2.71** | | **0.0869** | **0.500** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| **Sodium** | **212** | | **2.60** | **10.0** | **mg/L** | 20 | 08-Dec-2025 13:49 |
| **Strontium** | **0.0621** | | **0.000300** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| **Vanadium** | **0.000944** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| **Zinc** | **0.00377** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 08-Dec-2025 11:55 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 05-Dec-2025 14:18 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: SG |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **460** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **198** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:35 |
| **Alkalinity, Carbonate (As CaCO3)** | **82.2** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:35 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: SG |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **9.54** | | **0.100** | **1.00** | **pH Units** | 1 | 25-Nov-2025 16:30 |
| **Temp Deg C @pH** | **21.9** | | **0** | **0** | **°C** | 1 | 25-Nov-2025 16:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0979** | J | **0.0300** | **0.100** | **mg/L** | 1 | 24-Nov-2025 12:25 |
| **Chloride** | **101** | | **0.400** | **1.00** | **mg/L** | 2 | 24-Nov-2025 13:59 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 24-Nov-2025 12:25 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1055
Collection Date: 19-Nov-2025 11:10

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 05:16 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 05:16 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 05:16 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 05:16 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 05:16 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 05:16 |
| *Surr: 1,2-Dichloroethane-d4* | *111* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 05:16* |
| *Surr: 4-Bromofluorobenzene* | *101* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 05:16* |
| *Surr: Dibromofluoromethane* | *109* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 05:16* |
| *Surr: Toluene-d8* | *103* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 05:16* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Nov-2025 20:58 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Nov-2025 20:58 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Nov-2025 20:58 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *92.0* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 20:58* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *96.8* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 20:58* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 23-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:20 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:20 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:20 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:20 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:20 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:20 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:20 |
| *Surr: 1-Chlorooctadecane* | *59.2* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 00:20* |
| *Surr: 2-Bromonaphthalene* | *83.6* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 00:20* |
| *Surr: 2-Fluorobiphenyl* | *85.8* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 00:20* |
| *Surr: o-Terphenyl* | *65.1* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 00:20* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1055
Collection Date: 19-Nov-2025 11:10

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 05-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 08-Dec-2025 11:57 |
| **Barium** | **0.230** | | **0.000750** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:57 |
| **Calcium** | **25.5** | | **0.120** | **0.500** | **mg/L** | 1 | 08-Dec-2025 11:57 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 08-Dec-2025 11:57 |
| **Iron** | **2.70** | | **0.0600** | **0.200** | **mg/L** | 1 | 08-Dec-2025 11:57 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 08-Dec-2025 11:57 |
| **Magnesium** | **8.07** | | **0.0408** | **0.200** | **mg/L** | 1 | 08-Dec-2025 11:57 |
| **Manganese** | **0.367** | | **0.00190** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:57 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 08-Dec-2025 11:57 |
| **Potassium** | **3.00** | | **0.0869** | **0.500** | **mg/L** | 1 | 08-Dec-2025 11:57 |
| **Sodium** | **35.4** | | **0.130** | **0.500** | **mg/L** | 1 | 08-Dec-2025 11:57 |
| **Strontium** | **0.224** | | **0.000300** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:57 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 08-Dec-2025 11:57 |
| **Zinc** | **0.00581** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 08-Dec-2025 11:57 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 05-Dec-2025 14:20 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: SG |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **254** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **119** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:40 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 24-Nov-2025 21:40 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: SG |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.92** | | **0.100** | **1.00** | **pH Units** | 1 | 25-Nov-2025 16:30 |
| **Temp Deg C @pH** | **21.8** | | **0** | **0** | **°C** | 1 | 25-Nov-2025 16:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0767** | J | **0.0300** | **0.100** | **mg/L** | 1 | 24-Nov-2025 12:31 |
| **Chloride** | **36.0** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 12:31 |
| **Sulfate** | **2.25** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 12:31 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 19-Nov-2025 14:20

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 05:39 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 05:39 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 05:39 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 05:39 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 05:39 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 05:39 |
| *Surr: 1,2-Dichloroethane-d4* | *111* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 05:39* |
| *Surr: 4-Bromofluorobenzene* | *101* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 05:39* |
| *Surr: Dibromofluoromethane* | *105* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 05:39* |
| *Surr: Toluene-d8* | *105* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 05:39* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Nov-2025 21:37 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Nov-2025 21:37 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Nov-2025 21:37 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *88.8* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 21:37* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *92.8* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 21:37* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 23-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:49 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:49 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:49 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:49 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:49 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:49 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 00:49 |
| *Surr: 1-Chlorooctadecane* | *82.9* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 00:49* |
| *Surr: 2-Bromonaphthalene* | *92.4* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 00:49* |
| *Surr: 2-Fluorobiphenyl* | *99.7* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 00:49* |
| *Surr: o-Terphenyl* | *95.7* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 00:49* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 19-Nov-2025 14:20

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 05-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.00459** | | **0.000510** | **0.00200** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| **Barium** | **0.236** | | **0.000750** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| **Calcium** | **24.1** | | **0.120** | **0.500** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 08-Dec-2025 11:59 |
| **Iron** | **0.956** | | **0.0600** | **0.200** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 08-Dec-2025 11:59 |
| **Magnesium** | **6.46** | | **0.0408** | **0.200** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| **Manganese** | **0.0452** | | **0.00190** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 08-Dec-2025 11:59 |
| **Potassium** | **2.97** | | **0.0869** | **0.500** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| **Sodium** | **82.7** | | **0.130** | **0.500** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| **Strontium** | **0.355** | | **0.000300** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 08-Dec-2025 11:59 |
| **Zinc** | **0.00423** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 08-Dec-2025 11:59 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 05-Dec-2025 14:21 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: SG |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **278** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **213** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:46 |
| **Alkalinity, Carbonate (As CaCO3)** | **12.4** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:46 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: SG |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.53** | | **0.100** | **1.00** | **pH Units** | 1 | 25-Nov-2025 16:30 |
| **Temp Deg C @pH** | **21.8** | | **0** | **0** | **°C** | 1 | 25-Nov-2025 16:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 24-Nov-2025 12:37 |
| **Chloride** | **22.4** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 12:37 |
| **Sulfate** | **1.32** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 12:37 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 19-Nov-2025 16:00

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 06:02 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 06:02 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 06:02 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 06:02 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 06:02 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 06:02 |
| *Surr: 1,2-Dichloroethane-d4* | *107* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 06:02* |
| *Surr: 4-Bromofluorobenzene* | *102* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 06:02* |
| *Surr: Dibromofluoromethane* | *109* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 06:02* |
| *Surr: Toluene-d8* | *103* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 06:02* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Nov-2025 22:16 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Nov-2025 22:16 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Nov-2025 22:16 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *101* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 22:16* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *106* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 22:16* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 23-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:18 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:18 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:18 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:18 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:18 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:18 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:18 |
| *Surr: 1-Chlorooctadecane* | *88.3* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 01:18* |
| *Surr: 2-Bromonaphthalene* | *98.1* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 01:18* |
| *Surr: 2-Fluorobiphenyl* | *103* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 01:18* |
| *Surr: o-Terphenyl* | *95.7* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 01:18* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 19-Nov-2025 16:00

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 05-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.00103** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| **Barium** | **0.0313** | | **0.000750** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| **Calcium** | **5.62** | | **0.120** | **0.500** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:00 |
| **Iron** | **1.61** | | **0.0600** | **0.200** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 08-Dec-2025 12:00 |
| **Magnesium** | **0.237** | | **0.0408** | **0.200** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| **Manganese** | **0.0132** | | **0.00190** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| **Nickel** | **0.00281** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| **Potassium** | **4.00** | | **0.0869** | **0.500** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| **Sodium** | **224** | | **2.60** | **10.0** | **mg/L** | 20 | 08-Dec-2025 13:51 |
| **Strontium** | **0.0482** | | **0.000300** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| **Vanadium** | **0.00229** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| **Zinc** | **0.00388** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 08-Dec-2025 12:00 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 05-Dec-2025 14:23 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: SG |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **580** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **100** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:51 |
| **Alkalinity, Carbonate (As CaCO3)** | **91.4** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:51 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: SG |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **9.86** | | **0.100** | **1.00** | **pH Units** | 1 | 25-Nov-2025 16:30 |
| **Temp Deg C @pH** | **21.7** | | **0** | **0** | **°C** | 1 | 25-Nov-2025 16:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.182** | | **0.0300** | **0.100** | **mg/L** | 1 | 24-Nov-2025 12:43 |
| **Chloride** | **183** | | **1.00** | **2.50** | **mg/L** | 5 | 24-Nov-2025 14:05 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 24-Nov-2025 12:43 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 20-Nov-2025 09:30

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 24-Nov-2025 14:50 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 24-Nov-2025 14:50 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 24-Nov-2025 14:50 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 24-Nov-2025 14:50 |
| Toluene | U | | 0.00033 | 0.0020 | mg/L | 1 | 24-Nov-2025 14:50 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 24-Nov-2025 14:50 |
| *Surr: 1,2-Dichloroethane-d4* | *107* | | | *70-126* | *%REC* | *1* | *24-Nov-2025 14:50* |
| *Surr: 4-Bromofluorobenzene* | *94.3* | | | *77-113* | *%REC* | *1* | *24-Nov-2025 14:50* |
| *Surr: Dibromofluoromethane* | *108* | | | *77-123* | *%REC* | *1* | *24-Nov-2025 14:50* |
| *Surr: Toluene-d8* | *110* | | | *82-127* | *%REC* | *1* | *24-Nov-2025 14:50* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 25-Nov-2025 22:54 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 25-Nov-2025 22:54 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 25-Nov-2025 22:54 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *83.6* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 22:54* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *83.6* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 22:54* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 23-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 20:58 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 20:58 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 20:58 |
| **Aromatics >C10 - C12** | **0.0347** | J | **0.0250** | **0.100** | **mg/L** | 1 | 28-Nov-2025 20:58 |
| **Aromatics >C12 - C16** | **0.0252** | J | **0.0250** | **0.100** | **mg/L** | 1 | 28-Nov-2025 20:58 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 20:58 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 28-Nov-2025 20:58 |
| *Surr: 1-Chlorooctadecane* | *61.5* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 20:58* |
| *Surr: 2-Bromonaphthalene* | *93.7* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 20:58* |
| *Surr: 2-Fluorobiphenyl* | *93.5* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 20:58* |
| *Surr: o-Terphenyl* | *67.1* | | | *40-140* | *%REC* | *1* | *28-Nov-2025 20:58* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 20-Nov-2025 09:30

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 05-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.00125** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **Barium** | **0.124** | | **0.000750** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **Calcium** | **11.1** | | **0.120** | **0.500** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 08-Dec-2025 17:55 |
| **Iron** | **3.25** | | **0.0600** | **0.200** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 08-Dec-2025 17:55 |
| **Magnesium** | **1.85** | | **0.0408** | **0.200** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **Manganese** | **0.101** | | **0.00190** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **Nickel** | **0.00139** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **Potassium** | **50.7** | | **0.0869** | **0.500** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **Sodium** | **68.7** | | **0.130** | **0.500** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **Strontium** | **0.541** | | **0.000300** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **Vanadium** | **0.000776** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **Zinc** | **0.00444** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 08-Dec-2025 17:55 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 05-Dec-2025 14:25 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: SG |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **322** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **42.3** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:56 |
| **Alkalinity, Carbonate (As CaCO3)** | **156** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 21:56 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: SG |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **10.3** | | **0.100** | **1.00** | **pH Units** | 1 | 25-Nov-2025 16:30 |
| **Temp Deg C @pH** | **21.7** | | **0** | **0** | **°C** | 1 | 25-Nov-2025 16:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0670** | J | **0.0300** | **0.100** | **mg/L** | 1 | 24-Nov-2025 13:24 |
| **Chloride** | **38.8** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 13:24 |
| **Sulfate** | **1.32** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 13:24 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 20-Nov-2025 07:45

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 06:25 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 06:25 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 06:25 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 06:25 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 06:25 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 06:25 |
| *Surr: 1,2-Dichloroethane-d4* | *103* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 06:25* |
| *Surr: 4-Bromofluorobenzene* | *101* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 06:25* |
| *Surr: Dibromofluoromethane* | *105* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 06:25* |
| *Surr: Toluene-d8* | *103* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 06:25* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Nov-2025 23:33 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Nov-2025 23:33 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Nov-2025 23:33 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *94.8* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 23:33* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *94.8* | | | *70-130* | *%REC* | *1* | *25-Nov-2025 23:33* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 23-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:47 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:47 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:47 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:47 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:47 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:47 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 01:47 |
| *Surr: 1-Chlorooctadecane* | *77.5* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 01:47* |
| *Surr: 2-Bromonaphthalene* | *104* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 01:47* |
| *Surr: 2-Fluorobiphenyl* | *106* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 01:47* |
| *Surr: o-Terphenyl* | *99.3* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 01:47* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 20-Nov-2025 07:45

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 05-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 08-Dec-2025 12:02 |
| **Barium** | **0.217** | | **0.000750** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:02 |
| **Calcium** | **23.7** | | **0.120** | **0.500** | **mg/L** | 1 | 08-Dec-2025 12:02 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:02 |
| **Iron** | **9.92** | | **0.0600** | **0.200** | **mg/L** | 1 | 08-Dec-2025 12:02 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 08-Dec-2025 12:02 |
| **Magnesium** | **7.59** | | **0.0408** | **0.200** | **mg/L** | 1 | 08-Dec-2025 12:02 |
| **Manganese** | **0.452** | | **0.00190** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:02 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:02 |
| **Potassium** | **3.07** | | **0.0869** | **0.500** | **mg/L** | 1 | 08-Dec-2025 12:02 |
| **Sodium** | **41.7** | | **0.130** | **0.500** | **mg/L** | 1 | 08-Dec-2025 12:02 |
| **Strontium** | **0.208** | | **0.000300** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:02 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:02 |
| **Zinc** | **0.271** | | **0.00300** | **0.0100** | **mg/L** | 1 | 08-Dec-2025 12:02 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 05-Dec-2025 14:34 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: SG |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **220** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **117** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 22:06 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 24-Nov-2025 22:06 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: SG |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.98** | | **0.100** | **1.00** | **pH Units** | 1 | 25-Nov-2025 16:30 |
| **Temp Deg C @pH** | **21.7** | | **0** | **0** | **°C** | 1 | 25-Nov-2025 16:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0835** | J | **0.0300** | **0.100** | **mg/L** | 1 | 24-Nov-2025 12:49 |
| **Chloride** | **42.1** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 12:49 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 24-Nov-2025 12:49 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-112025
Collection Date: 20-Nov-2025 08:00

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 24-Nov-2025 20:09 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 24-Nov-2025 20:09 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 24-Nov-2025 20:09 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 24-Nov-2025 20:09 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 24-Nov-2025 20:09 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 24-Nov-2025 20:09 |
| *Surr: 1,2-Dichloroethane-d4* | *111* | | | *70-126* | *%REC* | *1* | *24-Nov-2025 20:09* |
| *Surr: 4-Bromofluorobenzene* | *100* | | | *77-113* | *%REC* | *1* | *24-Nov-2025 20:09* |
| *Surr: Dibromofluoromethane* | *112* | | | *77-123* | *%REC* | *1* | *24-Nov-2025 20:09* |
| *Surr: Toluene-d8* | *101* | | | *82-127* | *%REC* | *1* | *24-Nov-2025 20:09* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 26-Nov-2025 00:12 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 26-Nov-2025 00:12 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 26-Nov-2025 00:12 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *93.6* | | | *70-130* | *%REC* | *1* | *26-Nov-2025 00:12* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *98.8* | | | *70-130* | *%REC* | *1* | *26-Nov-2025 00:12* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 23-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:16 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:16 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:16 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:16 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:16 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:16 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:16 |
| *Surr: 1-Chlorooctadecane* | *77.6* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 02:16* |
| *Surr: 2-Bromonaphthalene* | *99.1* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 02:16* |
| *Surr: 2-Fluorobiphenyl* | *103* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 02:16* |
| *Surr: o-Terphenyl* | *87.9* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 02:16* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-112025
Collection Date: 20-Nov-2025 08:00

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 05-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 08-Dec-2025 12:04 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:04 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 08-Dec-2025 12:04 |
| **Chromium** | **0.00191** | J | **0.00173** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:04 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 08-Dec-2025 12:04 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 08-Dec-2025 12:04 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 08-Dec-2025 12:04 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:04 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:04 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 08-Dec-2025 12:04 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 08-Dec-2025 12:04 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:04 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:04 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 08-Dec-2025 12:04 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 05-Dec-2025 14:35 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: SG |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **66.0** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 24-Nov-2025 22:10 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 24-Nov-2025 22:10 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: SG |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.33** | | **0.100** | **1.00** | **pH Units** | 1 | 25-Nov-2025 16:30 |
| **Temp Deg C @pH** | **21.7** | | **0** | **0** | **°C** | 1 | 25-Nov-2025 16:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 24-Nov-2025 12:55 |
| **Chloride** | **0.236** | J | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 12:55 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 24-Nov-2025 12:55 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP
Collection Date: 20-Nov-2025 09:30

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 06:47 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 06:47 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 06:47 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 06:47 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 06:47 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 06:47 |
| *Surr: 1,2-Dichloroethane-d4* | *112* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 06:47* |
| *Surr: 4-Bromofluorobenzene* | *99.6* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 06:47* |
| *Surr: Dibromofluoromethane* | *105* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 06:47* |
| *Surr: Toluene-d8* | *103* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 06:47* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 26-Nov-2025 00:51 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 26-Nov-2025 00:51 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 26-Nov-2025 00:51 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *92.0* | | | *70-130* | *%REC* | *1* | *26-Nov-2025 00:51* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *96.0* | | | *70-130* | *%REC* | *1* | *26-Nov-2025 00:51* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 23-Nov-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:45 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:45 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:45 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:45 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:45 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:45 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 29-Nov-2025 02:45 |
| *Surr: 1-Chlorooctadecane* | *55.0* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 02:45* |
| *Surr: 2-Bromonaphthalene* | *83.8* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 02:45* |
| *Surr: 2-Fluorobiphenyl* | *83.4* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 02:45* |
| *Surr: o-Terphenyl* | *61.9* | | | *40-140* | *%REC* | *1* | *29-Nov-2025 02:45* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP
Collection Date: 20-Nov-2025 09:30

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 05-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.00125** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| **Barium** | **0.122** | | **0.000750** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| **Calcium** | **11.5** | | **0.120** | **0.500** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:06 |
| **Iron** | **3.21** | | **0.0600** | **0.200** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 08-Dec-2025 12:06 |
| **Magnesium** | **1.89** | | **0.0408** | **0.200** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| **Manganese** | **0.109** | | **0.00190** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 08-Dec-2025 12:06 |
| **Potassium** | **51.5** | | **0.0869** | **0.500** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| **Sodium** | **71.3** | | **0.130** | **0.500** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| **Strontium** | **0.541** | | **0.000300** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| **Vanadium** | **0.000770** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| **Zinc** | **0.00610** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 08-Dec-2025 12:06 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 05-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 05-Dec-2025 14:37 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: SG |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **360** | | **3.00** | **10.0** | **mg/L** | 1 | 24-Nov-2025 09:13 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **44.6** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 22:15 |
| **Alkalinity, Carbonate (As CaCO3)** | **142** | | **1.20** | **5.00** | **mg/L** | 1 | 24-Nov-2025 22:15 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: SG |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 24-Nov-2025 09:42 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **10.2** | | **0.100** | **1.00** | **pH Units** | 1 | 25-Nov-2025 16:30 |
| **Temp Deg C @pH** | **21.8** | | **0** | **0** | **°C** | 1 | 25-Nov-2025 16:30 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0666** | J | **0.0300** | **0.100** | **mg/L** | 1 | 24-Nov-2025 13:42 |
| **Chloride** | **38.2** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 13:42 |
| **Sulfate** | **1.26** | | **0.200** | **0.500** | **mg/L** | 1 | 24-Nov-2025 13:42 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-293
Collection Date: 20-Nov-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-10
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | **Method:SW8260** | | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 00:20 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 00:20 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 00:20 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 00:20 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 00:20 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 00:20 |
| *Surr: 1,2-Dichloroethane-d4* | *105* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 00:20* |
| *Surr: 4-Bromofluorobenzene* | *103* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 00:20* |
| *Surr: Dibromofluoromethane* | *109* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 00:20* |
| *Surr: Toluene-d8* | *106* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 00:20* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-281
Collection Date: 20-Nov-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-11
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | **Method:SW8260** | | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 00:42 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 00:42 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 00:42 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 00:42 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 00:42 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 00:42 |
| *Surr: 1,2-Dichloroethane-d4* | *104* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 00:42* |
| *Surr: 4-Bromofluorobenzene* | *101* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 00:42* |
| *Surr: Dibromofluoromethane* | *108* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 00:42* |
| *Surr: Toluene-d8* | *105* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 00:42* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-100125-376
Collection Date: 20-Nov-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-12
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 01:05 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 01:05 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 01:05 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 01:05 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 01:05 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 01:05 |
| *Surr: 1,2-Dichloroethane-d4* | *112* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 01:05* |
| *Surr: 4-Bromofluorobenzene* | *96.6* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 01:05* |
| *Surr: Dibromofluoromethane* | *108* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 01:05* |
| *Surr: Toluene-d8* | *107* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 01:05* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-277
Collection Date: 20-Nov-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25111009
Lab ID:HS25111009-13
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: FT |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 25-Nov-2025 01:28 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 01:28 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 25-Nov-2025 01:28 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 25-Nov-2025 01:28 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 25-Nov-2025 01:28 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 25-Nov-2025 01:28 |
| *Surr: 1,2-Dichloroethane-d4* | *108* | | | *70-126* | *%REC* | *1* | *25-Nov-2025 01:28* |
| *Surr: 4-Bromofluorobenzene* | *96.9* | | | *77-113* | *%REC* | *1* | *25-Nov-2025 01:28* |
| *Surr: Dibromofluoromethane* | *108* | | | *77-123* | *%REC* | *1* | *25-Nov-2025 01:28* |
| *Surr: Toluene-d8* | *104* | | | *82-127* | *%REC* | *1* | *25-Nov-2025 01:28* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**Batch ID:** 235963 **Start Date:** 23 Nov 2025 09:51 **End Date:** 23 Nov 2025 09:51
**Method:** MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25111009-01 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25111009-02 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25111009-03 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25111009-04 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25111009-05 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25111009-06 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25111009-07 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25111009-08 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25111009-09 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |

**Batch ID:** 236349 **Start Date:** 05 Dec 2025 09:00 **End Date:** 05 Dec 2025 09:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25111009-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 236356 **Start Date:** 05 Dec 2025 10:00 **End Date:** 05 Dec 2025 10:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25111009-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25111009-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 235963 ( 0 ) | **Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019 | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | 23 Nov 2025 09:51 | 28 Nov 2025 23:23 | 1 |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | 23 Nov 2025 09:51 | 28 Nov 2025 23:23 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | 23 Nov 2025 09:51 | 28 Nov 2025 23:51 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | 23 Nov 2025 09:51 | 28 Nov 2025 23:51 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | 23 Nov 2025 09:51 | 29 Nov 2025 00:20 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | 23 Nov 2025 09:51 | 29 Nov 2025 00:20 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | 23 Nov 2025 09:51 | 29 Nov 2025 00:49 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | 23 Nov 2025 09:51 | 29 Nov 2025 00:49 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | 23 Nov 2025 09:51 | 29 Nov 2025 01:18 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | 23 Nov 2025 09:51 | 29 Nov 2025 01:18 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | 23 Nov 2025 09:51 | 28 Nov 2025 20:58 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | 23 Nov 2025 09:51 | 28 Nov 2025 20:58 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | 23 Nov 2025 09:51 | 29 Nov 2025 01:47 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | 23 Nov 2025 09:51 | 29 Nov 2025 01:47 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | 23 Nov 2025 09:51 | 29 Nov 2025 02:16 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | 23 Nov 2025 09:51 | 29 Nov 2025 02:16 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | 23 Nov 2025 09:51 | 29 Nov 2025 02:45 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | 23 Nov 2025 09:51 | 29 Nov 2025 02:45 | 1 |
| **Batch ID:** 236349 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | 05 Dec 2025 09:00 | 05 Dec 2025 14:16 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | 05 Dec 2025 09:00 | 05 Dec 2025 14:18 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | 05 Dec 2025 09:00 | 05 Dec 2025 14:20 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | 05 Dec 2025 09:00 | 05 Dec 2025 14:21 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | 05 Dec 2025 09:00 | 05 Dec 2025 14:23 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | 05 Dec 2025 09:00 | 05 Dec 2025 14:25 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | 05 Dec 2025 09:00 | 05 Dec 2025 14:34 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | 05 Dec 2025 09:00 | 05 Dec 2025 14:35 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | 05 Dec 2025 09:00 | 05 Dec 2025 14:37 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 236356 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | 05 Dec 2025 10:00 | 08 Dec 2025 13:42 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | 05 Dec 2025 10:00 | 08 Dec 2025 13:49 | 20 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | 05 Dec 2025 10:00 | 08 Dec 2025 11:55 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | 05 Dec 2025 10:00 | 08 Dec 2025 11:57 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | 05 Dec 2025 10:00 | 08 Dec 2025 11:59 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | 05 Dec 2025 10:00 | 08 Dec 2025 13:51 | 20 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | 05 Dec 2025 10:00 | 08 Dec 2025 12:00 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | 05 Dec 2025 10:00 | 08 Dec 2025 17:55 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | 05 Dec 2025 10:00 | 08 Dec 2025 12:02 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | 05 Dec 2025 10:00 | 08 Dec 2025 12:04 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | 05 Dec 2025 10:00 | 08 Dec 2025 12:06 | 1 |
| **Batch ID:** R527015 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | | 24 Nov 2025 09:42 | 1 |
| **Batch ID:** R527016 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | | 24 Nov 2025 09:42 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | | 24 Nov 2025 09:42 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R527039 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | | 24 Nov 2025 09:13 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 24 Nov 2025 09:13 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | | 24 Nov 2025 09:13 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | | 24 Nov 2025 09:13 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 24 Nov 2025 09:13 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | | 24 Nov 2025 09:13 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | | 24 Nov 2025 09:13 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | | 24 Nov 2025 09:13 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | | 24 Nov 2025 09:13 | 1 |
| **Batch ID:** R527073 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | | 24 Nov 2025 12:19 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 24 Nov 2025 13:59 | 2 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 24 Nov 2025 12:25 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | | 24 Nov 2025 12:31 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | | 24 Nov 2025 12:37 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 24 Nov 2025 14:05 | 5 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 24 Nov 2025 12:43 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | | 24 Nov 2025 13:24 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | | 24 Nov 2025 12:49 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | | 24 Nov 2025 12:55 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | | 24 Nov 2025 13:42 | 1 |
| **Batch ID:** R527096 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | | 24 Nov 2025 14:50 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | | 24 Nov 2025 20:09 | 1 |
| **Batch ID:** R527098 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | | 25 Nov 2025 04:31 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 25 Nov 2025 04:53 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | | 25 Nov 2025 05:16 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | | 25 Nov 2025 05:39 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 25 Nov 2025 06:02 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | | 25 Nov 2025 06:25 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | | 25 Nov 2025 06:47 | 1 |
| HS25111009-10 | CG-103025-293 | 20 Nov 2025 00:00 | | | 25 Nov 2025 00:20 | 1 |
| HS25111009-11 | CG-103025-281 | 20 Nov 2025 00:00 | | | 25 Nov 2025 00:42 | 1 |
| HS25111009-12 | CG-100125-376 | 20 Nov 2025 00:00 | | | 25 Nov 2025 01:05 | 1 |
| HS25111009-13 | CG-103025-277 | 20 Nov 2025 00:00 | | | 25 Nov 2025 01:28 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R527150 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | | 24 Nov 2025 21:17 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 24 Nov 2025 21:35 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | | 24 Nov 2025 21:40 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | | 24 Nov 2025 21:46 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 24 Nov 2025 21:51 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | | 24 Nov 2025 21:56 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | | 24 Nov 2025 22:06 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | | 24 Nov 2025 22:10 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | | 24 Nov 2025 22:15 | 1 |
| **Batch ID:** R527189 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | | 25 Nov 2025 16:30 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 25 Nov 2025 16:30 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | | 25 Nov 2025 16:30 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | | 25 Nov 2025 16:30 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 25 Nov 2025 16:30 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | | 25 Nov 2025 16:30 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | | 25 Nov 2025 16:30 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | | 25 Nov 2025 16:30 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | | 25 Nov 2025 16:30 | 1 |
| **Batch ID:** R527236 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | | 25 Nov 2025 17:06 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 25 Nov 2025 17:45 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | | 25 Nov 2025 20:58 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | | 25 Nov 2025 21:37 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 25 Nov 2025 22:16 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | | 25 Nov 2025 22:54 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | | 25 Nov 2025 23:33 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | | 26 Nov 2025 00:12 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | | 26 Nov 2025 00:51 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R527240 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25111009-01 | 019-582 | 19 Nov 2025 10:45 | | | 25 Nov 2025 17:06 | 1 |
| HS25111009-02 | MW-1-700 | 19 Nov 2025 10:15 | | | 25 Nov 2025 17:45 | 1 |
| HS25111009-03 | 019-1055 | 19 Nov 2025 11:10 | | | 25 Nov 2025 20:58 | 1 |
| HS25111009-04 | MW-2-200 | 19 Nov 2025 14:20 | | | 25 Nov 2025 21:37 | 1 |
| HS25111009-05 | MW-2-700 | 19 Nov 2025 16:00 | | | 25 Nov 2025 22:16 | 1 |
| HS25111009-06 | MW-2-500 | 20 Nov 2025 09:30 | | | 25 Nov 2025 22:54 | 1 |
| HS25111009-07 | 019-1603 | 20 Nov 2025 07:45 | | | 25 Nov 2025 23:33 | 1 |
| HS25111009-08 | FB-112025 | 20 Nov 2025 08:00 | | | 26 Nov 2025 00:12 | 1 |
| HS25111009-09 | GW-DUP | 20 Nov 2025 09:30 | | | 26 Nov 2025 00:51 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: 235963 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MBLK** Sample ID: **MBLK-235963** Units: **mg/L** Analysis Date: **28-Nov-2025 20:01**
Client ID: Run ID: **FID23_527337** SeqNo: **9167735** PrepDate: **23-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aliphatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aliphatics >C16 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 1-Chlorooctadecane* | *0.03234* | *0* | *0.04* | *0* | *80.8* | *40 - 140* | | | | |

**MBLK** Sample ID: **MBLK-235963** Units: **mg/L** Analysis Date: **28-Nov-2025 20:01**
Client ID: Run ID: **FID-22_527338** SeqNo: **9167752** PrepDate: **23-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aromatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aromatics >C16 - C21 | U | 0.100 | | | | | | | | |
| Aromatics >C21 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03673* | *0* | *0.04* | *0* | *91.8* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.04003* | *0* | *0.04* | *0* | *100* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03709* | *0* | *0.04* | *0* | *92.7* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-235963** Units: **mg/L** Analysis Date: **28-Nov-2025 20:29**
Client ID: Run ID: **FID23_527337** SeqNo: **9167736** PrepDate: **23-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.03625 | 0.100 | 0.05 | 0 | 72.5 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.07486 | 0.100 | 0.1 | 0 | 74.9 | 40 - 140 | | | | J |
| Aliphatics >C16 - C35 | 0.3125 | 0.100 | 0.4 | 0 | 78.1 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02433* | *0* | *0.04* | *0* | *60.8* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: 235963 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**LCS** Sample ID: **LCS-235963** Units: **mg/L** Analysis Date: **28-Nov-2025 20:29**
Client ID: Run ID: **FID-22_527338** SeqNo: **9167753** PrepDate: **23-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.06037 | 0.100 | 0.05 | 0 | 121 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1694 | 0.100 | 0.2 | 0 | 84.7 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1398 | 0.100 | 0.15 | 0 | 93.2 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.4211 | 0.100 | 0.45 | 0 | 93.6 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03212* | *0* | *0.04* | *0* | *80.3* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03295* | *0* | *0.04* | *0* | *82.4* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.02876* | *0* | *0.04* | *0* | *71.9* | *40 - 140* | | | | |

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **28-Nov-2025 21:27**
Client ID: **MW-2-500** Run ID: **FID23_527337** SeqNo: **9167738** PrepDate: **23-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04033 | 0.100 | 0.05 | 0 | 80.7 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.08496 | 0.100 | 0.1 | 0 | 85.0 | 40 - 140 | | | | J |
| Aliphatics >C16 - C35 | 0.3286 | 0.100 | 0.4 | 0 | 82.1 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02511* | *0* | *0.04* | *0* | *62.8* | *40 - 140* | | | | |

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **28-Nov-2025 21:27**
Client ID: **MW-2-500** Run ID: **FID-22_527338** SeqNo: **9167755** PrepDate: **23-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.07183 | 0.100 | 0.05 | 0.03472 | 74.2 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1708 | 0.100 | 0.2 | 0.02521 | 72.8 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1328 | 0.100 | 0.15 | 0.01244 | 80.3 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.3931 | 0.100 | 0.45 | 0 | 87.4 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.02801* | *0* | *0.04* | *0* | *70.0* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03192* | *0* | *0.04* | *0* | *79.8* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.02623* | *0* | *0.04* | *0* | *65.6* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: 235963 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **28-Nov-2025 21:56**
Client ID: **MW-2-500** Run ID: **FID23_527337** SeqNo: **9167739** PrepDate: **23-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04023 | 0.100 | 0.05 | 0 | 80.5 | 40 - 140 | 0.04033 | 0 | 50 | J |
| Aliphatics >C12 - C16 | 0.08425 | 0.100 | 0.1 | 0 | 84.2 | 40 - 140 | 0.08496 | 0 | 50 | J |
| Aliphatics >C16 - C35 | 0.3269 | 0.100 | 0.4 | 0 | 81.7 | 40 - 140 | 0.3286 | 0.515 | 50 | |
| *Surr: 1-Chlorooctadecane* | *0.02495* | *0* | *0.04* | *0* | *62.4* | *40 - 140* | *0.02511* | *0.623* | *50* | |

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **28-Nov-2025 21:56**
Client ID: **MW-2-500** Run ID: **FID-22_527338** SeqNo: **9167756** PrepDate: **23-Nov-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.06248 | 0.100 | 0.05 | 0.03472 | 55.5 | 40 - 140 | 0.07183 | 0 | 50 | J |
| Aromatics >C12 - C16 | 0.1616 | 0.100 | 0.2 | 0.02521 | 68.2 | 40 - 140 | 0.1708 | 5.54 | 50 | |
| Aromatics >C16 - C21 | 0.1303 | 0.100 | 0.15 | 0.01244 | 78.6 | 40 - 140 | 0.1328 | 1.94 | 50 | |
| Aromatics >C21 - C35 | 0.3912 | 0.100 | 0.45 | 0 | 86.9 | 40 - 140 | 0.3931 | 0.48 | 50 | |
| *Surr: 2-Bromonaphthalene* | *0.02751* | *0* | *0.04* | *0* | *68.8* | *40 - 140* | *0.02801* | *1.81* | *50* | |
| *Surr: 2-Fluorobiphenyl* | *0.0316* | *0* | *0.04* | *0* | *79.0* | *40 - 140* | *0.03192* | *1.03* | *50* | |
| *Surr: o-Terphenyl* | *0.02604* | *0* | *0.04* | *0* | *65.1* | *40 - 140* | *0.02623* | *0.745* | *50* | |

**The following samples were analyzed in this batch:** HS25111009-01, HS25111009-02, HS25111009-03, HS25111009-04, HS25111009-05, HS25111009-06, HS25111009-07, HS25111009-08, HS25111009-09



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID:** R527236 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251124** Units: **mg/L** Analysis Date: **25-Nov-2025 14:31**
Client ID: Run ID: **FID-14_527236** SeqNo: **9165587** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.249* | *0.0100* | *0.25* | *0* | *99.6* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251124** Units: **mg/L** Analysis Date: **25-Nov-2025 13:13**
Client ID: Run ID: **FID-14_527236** SeqNo: **9165581** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.024 | 0.00500 | 0.025 | 0 | 96.0 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.02 | 0.00500 | 0.025 | 0 | 80.0 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.245* | *0.0100* | *0.25* | *0* | *98.0* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251124** Units: **mg/L** Analysis Date: **25-Nov-2025 13:52**
Client ID: Run ID: **FID-14_527236** SeqNo: **9165582** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.025 | 0.00500 | 0.025 | 0 | 100 | 70 - 130 | 0.024 | 4.08 | 25 | |
| Aliphatics >C8 - C10 | 0.021 | 0.00500 | 0.025 | 0 | 84.0 | 70 - 130 | 0.02 | 4.88 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.243* | *0.0100* | *0.25* | *0* | *97.2* | *70 - 130* | *0.245* | *0.82* | *25* | |

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **26-Nov-2025 02:08**
Client ID: **MW-2-500** Run ID: **FID-14_527236** SeqNo: **9165601** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.0231 | 0.00500 | 0.025 | 0 | 92.4 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.0194 | 0.00500 | 0.025 | 0 | 77.6 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.26* | *0.0100* | *0.25* | *0* | *104* | *70 - 130* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID:** R527236 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MS** Sample ID: **HS25110987-08MS** Units: **mg/L** Analysis Date: **25-Nov-2025 18:24**
Client ID: Run ID: **FID-14_527236** SeqNo: **9165593** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.147 | 0.00500 | 0.025 | 0.228 | -324 | 70 - 130 | | | | SO |
| Aliphatics >C8 - C10 | 0.013 | 0.00500 | 0.025 | 0 | 52.0 | 70 - 130 | | | | S |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.216* | *0.0100* | *0.25* | *0* | *86.4* | *70 - 130* | | | | |

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **26-Nov-2025 02:47**
Client ID: **MW-2-500** Run ID: **FID-14_527236** SeqNo: **9165602** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.021 | 0.00500 | 0.025 | 0 | 84.0 | 70 - 130 | 0.0231 | 9.52 | 25 | |
| Aliphatics >C8 - C10 | 0.0203 | 0.00500 | 0.025 | 0 | 81.2 | 70 - 130 | 0.0194 | 4.53 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.215* | *0.0100* | *0.25* | *0* | *86.0* | *70 - 130* | *0.26* | *18.9* | *25* | |

**MSD** Sample ID: **HS25110987-08MSD** Units: **mg/L** Analysis Date: **25-Nov-2025 19:02**
Client ID: Run ID: **FID-14_527236** SeqNo: **9165594** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.266 | 0.00500 | 0.025 | 0.228 | 152 | 70 - 130 | 0.147 | 57.6 | 25 | SREO |
| Aliphatics >C8 - C10 | 0.011 | 0.00500 | 0.025 | 0 | 44.0 | 70 - 130 | 0.013 | 16.7 | 25 | S |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.234* | *0.0100* | *0.25* | *0* | *93.6* | *70 - 130* | *0.216* | *8* | *25* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25111009-01 | HS25111009-02 | HS25111009-03 | HS25111009-04 |
| HS25111009-05 | HS25111009-06 | HS25111009-07 | HS25111009-08 |
| HS25111009-09 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527240 ( 0 )** **Instrument: FID-15** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MBLK** Sample ID: **MBLK-251124** Units: **mg/L** Analysis Date: **25-Nov-2025 14:31**
Client ID: Run ID: **FID-15_527240** SeqNo: **9165672** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.249* | *0.0100* | *0.25* | *0* | *99.6* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251124** Units: **mg/L** Analysis Date: **25-Nov-2025 13:13**
Client ID: Run ID: **FID-15_527240** SeqNo: **9165666** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.1085 | 0.0200 | 0.1 | 0 | 108 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.26* | *0.0100* | *0.25* | *0* | *104* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251124** Units: **mg/L** Analysis Date: **25-Nov-2025 13:52**
Client ID: Run ID: **FID-15_527240** SeqNo: **9165667** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0956 | 0.0200 | 0.1 | 0 | 95.6 | 70 - 130 | 0.1085 | 12.6 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.231* | *0.0100* | *0.25* | *0* | *92.4* | *70 - 130* | *0.26* | *11.8* | *25* | |

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **26-Nov-2025 02:08**
Client ID: **MW-2-500** Run ID: **FID-15_527240** SeqNo: **9165686** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.1068 | 0.0200 | 0.1 | 0 | 107 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.248* | *0.0100* | *0.25* | *0* | *99.2* | *70 - 130* | | | | |

**MS** Sample ID: **HS25110987-08MS** Units: **mg/L** Analysis Date: **25-Nov-2025 18:24**
Client ID: Run ID: **FID-15_527240** SeqNo: **9165678** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.117 | 0.0200 | 0.1 | 0 | 117 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.216* | *0.0100* | *0.25* | *0* | *86.4* | *70 - 130* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID:** **R527240 ( 0 )** **Instrument:** **FID-15** **Method:** **MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **26-Nov-2025 02:47**
Client ID: **MW-2-500** Run ID: **FID-15_527240** SeqNo: **9165687** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.114 | 0.0200 | 0.1 | 0 | 114 | 70 - 130 | 0.1068 | 6.52 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.225* | *0.0100* | *0.25* | *0* | *90.0* | *70 - 130* | *0.248* | *9.73* | *25* | |

**MSD** Sample ID: **HS25110987-08MSD** Units: **mg/L** Analysis Date: **25-Nov-2025 19:02**
Client ID: Run ID: **FID-15_527240** SeqNo: **9165679** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0948 | 0.0200 | 0.1 | 0 | 94.8 | 70 - 130 | 0.117 | 21 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.234* | *0.0100* | *0.25* | *0* | *93.6* | *70 - 130* | *0.216* | *8* | *25* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25111009-01 | HS25111009-02 | HS25111009-03 | HS25111009-04 |
| HS25111009-05 | HS25111009-06 | HS25111009-07 | HS25111009-08 |
| HS25111009-09 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: 236349 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-236349** Units: **mg/L** Analysis Date: **05-Dec-2025 14:11**
Client ID: Run ID: **HG05_527718** SeqNo: **9176986** PrepDate: **05-Dec-2025** DF: **1**

| Analyte | Result | | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | U | 0.000200 | | | | | | | | |

**LCS** Sample ID: **LCS-236349** Units: **mg/L** Analysis Date: **05-Dec-2025 14:15**
Client ID: Run ID: **HG05_527718** SeqNo: **9176987** PrepDate: **05-Dec-2025** DF: **1**

| Analyte | Result | | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00562 | | 0.000200 | 0.005 | 0 | 112 | 80 - 120 | | | | |

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **05-Dec-2025 14:26**
Client ID: **MW-2-500** Run ID: **HG05_527718** SeqNo: **9176994** PrepDate: **05-Dec-2025** DF: **1**

| Analyte | Result | | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00553 | | 0.000200 | 0.005 | -0.000003 | 111 | 75 - 125 | | | | |

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **05-Dec-2025 14:44**
Client ID: **MW-2-500** Run ID: **HG05_527718** SeqNo: **9177004** PrepDate: **05-Dec-2025** DF: **1**

| Analyte | Result | | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00547 | | 0.000200 | 0.005 | -0.000003 | 109 | 75 - 125 | 0.00553 | 1.09 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25111009-01 | HS25111009-02 | HS25111009-03 | HS25111009-04 |
| HS25111009-05 | HS25111009-06 | HS25111009-07 | HS25111009-08 |
| HS25111009-09 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: 236356 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-236356** Units: **mg/L** Analysis Date: **08-Dec-2025 11:26**
Client ID: Run ID: **ICPMS06_527764** SeqNo: **9178403** PrepDate: **05-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | | |
| Barium | U | 0.00500 | | | | | | | | |
| Calcium | U | 0.500 | | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | | |
| Iron | U | 0.200 | | | | | | | | |
| Lead | U | 0.00200 | | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | | |
| Potassium | U | 0.500 | | | | | | | | |
| Sodium | U | 0.500 | | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | | |

**LCS** Sample ID: **LCS-236356** Units: **mg/L** Analysis Date: **08-Dec-2025 17:53**
Client ID: Run ID: **ICPMS06_527764** SeqNo: **9179248** PrepDate: **05-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05238 | 0.00200 | 0.05 | 0 | 105 | 80 - 120 | | | | |
| Barium | 0.04821 | 0.00500 | 0.05 | 0 | 96.4 | 80 - 120 | | | | |
| Calcium | 5.355 | 0.500 | 5 | 0 | 107 | 80 - 120 | | | | |
| Chromium | 0.05131 | 0.00500 | 0.05 | 0 | 103 | 80 - 120 | | | | |
| Iron | 5.239 | 0.200 | 5 | 0 | 105 | 80 - 120 | | | | |
| Lead | 0.04926 | 0.00200 | 0.05 | 0 | 98.5 | 80 - 120 | | | | |
| Magnesium | 5.269 | 0.200 | 5 | 0 | 105 | 80 - 120 | | | | |
| Manganese | 0.05193 | 0.00500 | 0.05 | 0 | 104 | 80 - 120 | | | | |
| Nickel | 0.05097 | 0.00500 | 0.05 | 0 | 102 | 80 - 120 | | | | |
| Potassium | 5.132 | 0.500 | 5 | 0 | 103 | 80 - 120 | | | | |
| Sodium | 5.295 | 0.500 | 5 | 0 | 106 | 80 - 120 | | | | |
| Strontium | 0.1006 | 0.00500 | 0.1 | 0 | 101 | 80 - 120 | | | | |
| Vanadium | 0.05108 | 0.00500 | 0.05 | 0 | 102 | 80 - 120 | | | | |
| Zinc | 0.0543 | 0.0100 | 0.05 | 0 | 109 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: 236356 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **08-Dec-2025 17:58**
Client ID: **MW-2-500** Run ID: **ICPMS06_527764** SeqNo: **9179251** PrepDate: **05-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05304 | 0.00200 | 0.05 | 0.001249 | 104 | 80 - 120 | | | | |
| Barium | 0.1728 | 0.00500 | 0.05 | 0.1237 | 98.2 | 80 - 120 | | | | |
| Calcium | 16.88 | 0.500 | 5 | 11.1 | 116 | 80 - 120 | | | | |
| Chromium | 0.05107 | 0.00500 | 0.05 | 0.0007 | 101 | 80 - 120 | | | | |
| Iron | 8.453 | 0.200 | 5 | 3.252 | 104 | 80 - 120 | | | | |
| Lead | 0.04872 | 0.00200 | 0.05 | 0.000256 | 96.9 | 80 - 120 | | | | |
| Magnesium | 7.072 | 0.200 | 5 | 1.849 | 104 | 80 - 120 | | | | |
| Manganese | 0.1593 | 0.00500 | 0.05 | 0.1015 | 116 | 80 - 120 | | | | |
| Nickel | 0.05042 | 0.00500 | 0.05 | 0.001389 | 98.1 | 80 - 120 | | | | |
| Potassium | 57.19 | 0.500 | 5 | 50.71 | 130 | 80 - 120 | | | | SO |
| Sodium | 75.97 | 0.500 | 5 | 68.72 | 145 | 80 - 120 | | | | SO |
| Strontium | 0.6345 | 0.00500 | 0.1 | 0.5412 | 93.3 | 80 - 120 | | | | O |
| Vanadium | 0.05195 | 0.00500 | 0.05 | 0.000776 | 102 | 80 - 120 | | | | |
| Zinc | 0.05806 | 0.0100 | 0.05 | 0.004442 | 107 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **08-Dec-2025 18:00**
Client ID: **MW-2-500** Run ID: **ICPMS06_527764** SeqNo: **9179252** PrepDate: **05-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.05337 | 0.00200 | 0.05 | 0.001249 | 104 | 80 - 120 | 0.05304 | 0.609 | 20 | |
| Barium | 0.1721 | 0.00500 | 0.05 | 0.1237 | 96.7 | 80 - 120 | 0.1728 | 0.419 | 20 | |
| Calcium | 16.75 | 0.500 | 5 | 11.1 | 113 | 80 - 120 | 16.88 | 0.803 | 20 | |
| Chromium | 0.05056 | 0.00500 | 0.05 | 0.0007 | 99.7 | 80 - 120 | 0.05107 | 1.02 | 20 | |
| Iron | 8.369 | 0.200 | 5 | 3.252 | 102 | 80 - 120 | 8.453 | 0.998 | 20 | |
| Lead | 0.04963 | 0.00200 | 0.05 | 0.000256 | 98.7 | 80 - 120 | 0.04872 | 1.84 | 20 | |
| Magnesium | 7.105 | 0.200 | 5 | 1.849 | 105 | 80 - 120 | 7.072 | 0.462 | 20 | |
| Manganese | 0.1548 | 0.00500 | 0.05 | 0.1015 | 107 | 80 - 120 | 0.1593 | 2.85 | 20 | |
| Nickel | 0.05038 | 0.00500 | 0.05 | 0.001389 | 98.0 | 80 - 120 | 0.05042 | 0.0734 | 20 | |
| Potassium | 57.41 | 0.500 | 5 | 50.71 | 134 | 80 - 120 | 57.19 | 0.381 | 20 | SO |
| Sodium | 75.71 | 0.500 | 5 | 68.72 | 140 | 80 - 120 | 75.97 | 0.335 | 20 | SO |
| Strontium | 0.6425 | 0.00500 | 0.1 | 0.5412 | 101 | 80 - 120 | 0.6345 | 1.26 | 20 | O |
| Vanadium | 0.0517 | 0.00500 | 0.05 | 0.000776 | 102 | 80 - 120 | 0.05195 | 0.475 | 20 | |
| Zinc | 0.05706 | 0.0100 | 0.05 | 0.004442 | 105 | 80 - 120 | 0.05806 | 1.75 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: 236356 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25111009-06PDS** Units: **mg/L** Analysis Date: **08-Dec-2025 18:02**
Client ID: **MW-2-500** Run ID: **ICPMS06_527764** SeqNo: **9179253** PrepDate: **05-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.1034 | 0.00200 | 0.1 | 0.001249 | 102 | 75 - 125 | | | | |
| Barium | 0.2354 | 0.00500 | 0.1 | 0.1237 | 112 | 75 - 125 | | | | |
| Calcium | 21.65 | 0.500 | 10 | 11.1 | 105 | 75 - 125 | | | | |
| Chromium | 0.1006 | 0.00500 | 0.1 | 0.0007 | 99.9 | 75 - 125 | | | | |
| Iron | 15.61 | 0.200 | 10 | 3.252 | 124 | 75 - 125 | | | | |
| Lead | 0.09806 | 0.00200 | 0.1 | 0.000256 | 97.8 | 75 - 125 | | | | |
| Magnesium | 12.24 | 0.200 | 10 | 1.849 | 104 | 75 - 125 | | | | |
| Manganese | 0.2102 | 0.00500 | 0.1 | 0.1015 | 109 | 75 - 125 | | | | |
| Nickel | 0.09804 | 0.00500 | 0.1 | 0.001389 | 96.6 | 75 - 125 | | | | |
| Potassium | 61.2 | 0.500 | 10 | 50.71 | 105 | 75 - 125 | | | | O |
| Sodium | 79.2 | 0.500 | 10 | 68.72 | 105 | 75 - 125 | | | | O |
| Strontium | 0.637 | 0.00500 | 0.1 | 0.5412 | 95.8 | 75 - 125 | | | | O |
| Vanadium | 0.1036 | 0.00500 | 0.1 | 0.000776 | 103 | 75 - 125 | | | | |
| Zinc | 0.1096 | 0.0100 | 0.1 | 0.004442 | 105 | 75 - 125 | | | | |

**SD** Sample ID: **HS25111009-06SD** Units: **mg/L** Analysis Date: **08-Dec-2025 17:56**
Client ID: **MW-2-500** Run ID: **ICPMS06_527764** SeqNo: **9179250** PrepDate: **05-Dec-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.0100 | | | | | 0.001249 | 0 | 10 | |
| Barium | 0.123 | 0.0250 | | | | | 0.1237 | 0.588 | 10 | |
| Calcium | 11.61 | 2.50 | | | | | 11.1 | 4.59 | 10 | |
| Chromium | U | 0.0250 | | | | | 0.0007 | 0 | 10 | |
| Iron | 3.367 | 1.00 | | | | | 3.252 | 3.52 | 10 | |
| Lead | U | 0.0100 | | | | | 0.000256 | 0 | 10 | |
| Manganese | 0.1074 | 0.0250 | | | | | 0.1015 | 5.87 | 10 | |
| Nickel | U | 0.0250 | | | | | 0.001389 | 0 | 10 | |
| Potassium | 52.33 | 2.50 | | | | | 50.71 | 3.2 | 10 | |
| Sodium | 72.09 | 2.50 | | | | | 68.72 | 4.9 | 10 | |
| Strontium | 0.5599 | 0.0250 | | | | | 0.5412 | 3.47 | 10 | |
| Vanadium | U | 0.0250 | | | | | 0.000776 | 0 | 10 | |
| Zinc | U | 0.0500 | | | | | 0.004442 | 0 | 10 | |

**The following samples were analyzed in this batch:** HS25111009-01, HS25111009-02, HS25111009-03, HS25111009-04, HS25111009-05, HS25111009-06, HS25111009-07, HS25111009-08, HS25111009-09



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527096 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251124** Units: **mg/L** Analysis Date: **24-Nov-2025 10:39**
Client ID: Run ID: **VOA13_527096** SeqNo: **9162325** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.053* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.053* | *0.0010* | *0.05* | *0* | *105* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.045* | *0.0010* | *0.05* | *0* | *89.3* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS-251124** Units: **mg/L** Analysis Date: **24-Nov-2025 09:31**
Client ID: Run ID: **VOA13_527096** SeqNo: **9162348** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.024 | 0.0010 | 0.02 | 0 | 118 | 74 - 120 | | | | |
| Ethylbenzene | 0.022 | 0.0020 | 0.02 | 0 | 110 | 77 - 117 | | | | |
| m,p-Xylene | 0.044 | 0.0040 | 0.04 | 0 | 110 | 77 - 122 | | | | |
| o-Xylene | 0.022 | 0.0020 | 0.02 | 0 | 108 | 75 - 119 | | | | |
| Toluene | 0.023 | 0.0020 | 0.02 | 0 | 113 | 77 - 118 | | | | |
| Xylenes, Total | 0.066 | 0.0060 | 0.06 | 0 | 109 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.048* | *0.0010* | *0.05* | *0* | *96.2* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.050* | *0.0010* | *0.05* | *0* | *100* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527096 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **24-Nov-2025 15:13**
Client ID: **MW-2-500** Run ID: **VOA13_527096** SeqNo: **9162332** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.022 | 0.0010 | 0.02 | 0 | 109 | 70 - 127 | | | | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 101 | 70 - 124 | | | | |
| m,p-Xylene | 0.041 | 0.0040 | 0.04 | 0 | 102 | 70 - 130 | | | | |
| o-Xylene | 0.021 | 0.0020 | 0.02 | 0 | 106 | 70 - 124 | | | | |
| Toluene | 0.023 | 0.0020 | 0.02 | 0 | 117 | 70 - 123 | | | | |
| Xylenes, Total | 0.062 | 0.0060 | 0.06 | 0 | 103 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.057* | *0.0010* | *0.05* | *0* | *114* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.049* | *0.0010* | *0.05* | *0* | *97.4* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.054* | *0.0010* | *0.05* | *0* | *109* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.047* | *0.0010* | *0.05* | *0* | *94.7* | *82 - 127* | | | | |

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **24-Nov-2025 15:36**
Client ID: **MW-2-500** Run ID: **VOA13_527096** SeqNo: **9162333** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 104 | 70 - 127 | 0.02180 | 4.49 | 20 | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 99.7 | 70 - 124 | 0.02019 | 1.27 | 20 | |
| m,p-Xylene | 0.039 | 0.0040 | 0.04 | 0 | 98.7 | 70 - 130 | 0.04089 | 3.53 | 20 | |
| o-Xylene | 0.020 | 0.0020 | 0.02 | 0 | 100 | 70 - 124 | 0.02114 | 5.06 | 20 | |
| Toluene | 0.023 | 0.0020 | 0.02 | 0 | 113 | 70 - 123 | 0.02338 | 3.16 | 20 | |
| Xylenes, Total | 0.060 | 0.0060 | 0.06 | 0 | 99.3 | 70 - 130 | 0.06203 | 4.05 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.056* | *0.0010* | *0.05* | *0* | *112* | *70 - 126* | *0.05676* | *1.02* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.047* | *0.0010* | *0.05* | *0* | *95.0* | *77 - 113* | *0.04871* | *2.53* | *20* | |
| *Surr: Dibromofluoromethane* | *0.056* | *0.0010* | *0.05* | *0* | *111* | *77 - 123* | *0.05441* | *2.06* | *20* | |
| *Surr: Toluene-d8* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *82 - 127* | *0.04737* | *9.29* | *20* | |

**The following samples were analyzed in this batch:** HS25111009-06 HS25111009-08



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527098 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251124** Units: **mg/L** Analysis Date: **24-Nov-2025 22:48**
Client ID: Run ID: **VOA13_527098** SeqNo: **9162388** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *103* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.049* | *0.0010* | *0.05* | *0* | *98.1* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.053* | *0.0010* | *0.05* | *0* | *107* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS-251124** Units: **mg/L** Analysis Date: **24-Nov-2025 21:40**
Client ID: Run ID: **VOA13_527098** SeqNo: **9162394** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.023 | 0.0010 | 0.02 | 0 | 115 | 74 - 120 | | | | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 101 | 77 - 117 | | | | |
| m,p-Xylene | 0.041 | 0.0040 | 0.04 | 0 | 102 | 77 - 122 | | | | |
| o-Xylene | 0.021 | 0.0020 | 0.02 | 0 | 103 | 75 - 119 | | | | |
| Toluene | 0.025 | 0.0020 | 0.02 | 0 | 123 | 77 - 118 | | | | S |
| Xylenes, Total | 0.061 | 0.0060 | 0.06 | 0 | 102 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.055* | *0.0010* | *0.05* | *0* | *111* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.048* | *0.0010* | *0.05* | *0* | *95.6* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.054* | *0.0010* | *0.05* | *0* | *108* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.051* | *0.0010* | *0.05* | *0* | *103* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527098 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD-251124** Units: **mg/L** Analysis Date: **24-Nov-2025 22:03**
Client ID: Run ID: **VOA13_527098** SeqNo: **9162387** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.023 | 0.0010 | 0.02 | 0 | 115 | 74 - 120 | 0.02300 | 0.135 | 20 | |
| Ethylbenzene | 0.021 | 0.0020 | 0.02 | 0 | 103 | 77 - 117 | 0.02017 | 2.31 | 20 | |
| m,p-Xylene | 0.041 | 0.0040 | 0.04 | 0 | 102 | 77 - 122 | 0.04074 | 0.312 | 20 | |
| o-Xylene | 0.020 | 0.0020 | 0.02 | 0 | 101 | 75 - 119 | 0.02069 | 1.99 | 20 | |
| Toluene | 0.024 | 0.0020 | 0.02 | 0 | 122 | 77 - 118 | 0.02453 | 0.889 | 20 | S |
| Xylenes, Total | 0.061 | 0.0060 | 0.06 | 0 | 101 | 75 - 122 | 0.06142 | 0.873 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.056* | *0.0010* | *0.05* | *0* | *112* | *70 - 123* | *0.05533* | *1.08* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.048* | *0.0010* | *0.05* | *0* | *96.2* | *77 - 113* | *0.04782* | *0.582* | *20* | |
| *Surr: Dibromofluoromethane* | *0.055* | *0.0010* | *0.05* | *0* | *109* | *73 - 126* | *0.05398* | *1.28* | *20* | |
| *Surr: Toluene-d8* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *81 - 120* | *0.05142* | *0.989* | *20* | |

**MS** Sample ID: **HS25110999-04MS** Units: **mg/L** Analysis Date: **24-Nov-2025 23:34**
Client ID: Run ID: **VOA13_527098** SeqNo: **9162390** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.024 | 0.0010 | 0.02 | 0 | 119 | 70 - 127 | | | | |
| Ethylbenzene | 0.021 | 0.0020 | 0.02 | 0 | 103 | 70 - 124 | | | | |
| m,p-Xylene | 0.041 | 0.0040 | 0.04 | 0 | 102 | 70 - 130 | | | | |
| o-Xylene | 0.021 | 0.0020 | 0.02 | 0 | 104 | 70 - 124 | | | | |
| Toluene | 0.025 | 0.0020 | 0.02 | 0 | 126 | 70 - 123 | | | | S |
| Xylenes, Total | 0.062 | 0.0060 | 0.06 | 0 | 103 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.057* | *0.0010* | *0.05* | *0* | *113* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.048* | *0.0010* | *0.05* | *0* | *96.0* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.054* | *0.0010* | *0.05* | *0* | *109* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *82 - 127* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527098 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MSD** Sample ID: **HS25110999-04MSD** Units: **mg/L** Analysis Date: **24-Nov-2025 23:57**
Client ID: Run ID: **VOA13_527098** SeqNo: **9162391** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.022 | 0.0010 | 0.02 | 0 | 111 | 70 - 127 | 0.02383 | 7.46 | 20 | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 99.6 | 70 - 124 | 0.02063 | 3.52 | 20 | |
| m,p-Xylene | 0.040 | 0.0040 | 0.04 | 0 | 99.5 | 70 - 130 | 0.04098 | 2.92 | 20 | |
| o-Xylene | 0.020 | 0.0020 | 0.02 | 0 | 97.6 | 70 - 124 | 0.02088 | 6.74 | 20 | |
| Toluene | 0.023 | 0.0020 | 0.02 | 0 | 117 | 70 - 123 | 0.02518 | 7.32 | 20 | |
| Xylenes, Total | 0.059 | 0.0060 | 0.06 | 0 | 98.9 | 70 - 130 | 0.06186 | 4.19 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.055* | *0.0010* | *0.05* | *0* | *110* | *70 - 126* | *0.05667* | *2.55* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.047* | *0.0010* | *0.05* | *0* | *93.9* | *77 - 113* | *0.04801* | *2.19* | *20* | |
| *Surr: Dibromofluoromethane* | *0.053* | *0.0010* | *0.05* | *0* | *105* | *77 - 123* | *0.05429* | *3.32* | *20* | |
| *Surr: Toluene-d8* | *0.052* | *0.0010* | *0.05* | *0* | *105* | *82 - 127* | *0.05119* | *2.08* | *20* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25111009-01 | HS25111009-02 | HS25111009-03 | HS25111009-04 |
| HS25111009-05 | HS25111009-07 | HS25111009-09 | HS25111009-10 |
| HS25111009-11 | HS25111009-12 | HS25111009-13 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527015 ( 0 )** **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

**MBLK** Sample ID: **MBLK-R527015** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: Run ID: **WetChem_HS_527015** SeqNo: **9160462** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R527015** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: Run ID: **WetChem_HS_527015** SeqNo: **9160461** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 24.8 | 5.00 | 25 | 0 | 99.2 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-R527015** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: Run ID: **WetChem_HS_527015** SeqNo: **9160460** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 25 | 5.00 | 25 | 0 | 100 | 85 - 115 | 24.8 | 0.803 | 20 | |

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: **MW-2-500** Run ID: **WetChem_HS_527015** SeqNo: **9160464** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.4 | 5.00 | 25 | -0.6 | 96.0 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: **MW-2-500** Run ID: **WetChem_HS_527015** SeqNo: **9160463** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 22.8 | 5.00 | 25 | -0.6 | 93.6 | 80 - 120 | 23.4 | 2.6 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25111009-01 | HS25111009-02 | HS25111009-03 | HS25111009-04 |
| HS25111009-05 | HS25111009-06 | HS25111009-07 | HS25111009-08 |
| HS25111009-09 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527016 ( 0 )** **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

**MBLK** Sample ID: **MBLK-R527016** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: Run ID: **WetChem_HS_527016** SeqNo: **9160476** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | U | 1.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R527016** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: Run ID: **WetChem_HS_527016** SeqNo: **9160475** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 26.35 | 1.00 | 26.56 | 0 | 99.2 | 80 - 120 | | | | |

**LCSD** Sample ID: **LCSD-R527016** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: Run ID: **WetChem_HS_527016** SeqNo: **9160474** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.56 | 1.00 | 26.56 | 0 | 96.2 | 80 - 120 | 26.35 | 3.03 | 20 | |

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: **MW-2-500** Run ID: **WetChem_HS_527016** SeqNo: **9160478** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.86 | 1.00 | 26.56 | -0.6375 | 96.0 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **24-Nov-2025 09:42**
Client ID: **MW-2-500** Run ID: **WetChem_HS_527016** SeqNo: **9160477** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.22 | 1.00 | 26.56 | -0.6375 | 93.6 | 80 - 120 | 24.86 | 2.6 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25111009-01 | HS25111009-02 | HS25111009-03 | HS25111009-04 |
| HS25111009-05 | HS25111009-06 | HS25111009-07 | HS25111009-08 |
| HS25111009-09 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527039 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-11242025** Units: **mg/L** Analysis Date: **24-Nov-2025 09:13**
Client ID: Run ID: **Balance1_527039** SeqNo: **9160943** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-11242025** Units: **mg/L** Analysis Date: **24-Nov-2025 09:13**
Client ID: Run ID: **Balance1_527039** SeqNo: **9160942** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1024 | 10.0 | 1000 | 0 | 102 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25110954-01DUP** Units: **mg/L** Analysis Date: **24-Nov-2025 09:13**
Client ID: Run ID: **Balance1_527039** SeqNo: **9160929** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 1236 | 10.0 | | | | | 1224 | 0.976 | 20 | |

**DUP** Sample ID: **HS25110862-09DUP** Units: **mg/L** Analysis Date: **24-Nov-2025 09:13**
Client ID: Run ID: **Balance1_527039** SeqNo: **9160927** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 3950 | 10.0 | | | | | 3900 | 1.27 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25111009-01 | HS25111009-02 | HS25111009-03 | HS25111009-04 |
| HS25111009-05 | HS25111009-06 | HS25111009-07 | HS25111009-08 |
| HS25111009-09 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID:** R527073 ( 0 ) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **24-Nov-2025 09:40**
Client ID: Run ID: **ICS-04_527073** SeqNo: **9161779** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | 0.100 | | | | | | | | |
| Chloride | U | 0.500 | | | | | | | | |
| Sulfate | U | 0.500 | | | | | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **24-Nov-2025 09:52**
Client ID: Run ID: **ICS-04_527073** SeqNo: **9161780** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 3.846 | 0.100 | 4 | 0 | 96.1 | 80 - 120 | | | | |
| Chloride | 21.12 | 0.500 | 20 | 0 | 106 | 80 - 120 | | | | |
| Sulfate | 22.06 | 0.500 | 20 | 0 | 110 | 80 - 120 | | | | |

**MS** Sample ID: **HS25111009-06MS** Units: **mg/L** Analysis Date: **24-Nov-2025 13:30**
Client ID: **MW-2-500** Run ID: **ICS-04_527073** SeqNo: **9161804** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.711 | 0.100 | 2 | 0.067 | 82.2 | 80 - 120 | | | | |
| Chloride | 48.31 | 0.500 | 10 | 38.83 | 94.8 | 80 - 120 | | | | |
| Sulfate | 10.79 | 0.500 | 10 | 1.32 | 94.7 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25111009-06MSD** Units: **mg/L** Analysis Date: **24-Nov-2025 13:36**
Client ID: **MW-2-500** Run ID: **ICS-04_527073** SeqNo: **9161805** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.707 | 0.100 | 2 | 0.067 | 82.0 | 80 - 120 | 1.711 | 0.24 | 20 | |
| Chloride | 48 | 0.500 | 10 | 38.83 | 91.7 | 80 - 120 | 48.31 | 0.635 | 20 | |
| Sulfate | 10.71 | 0.500 | 10 | 1.32 | 93.9 | 80 - 120 | 10.79 | 0.787 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25111009-01 | HS25111009-02 | HS25111009-03 | HS25111009-04 |
| HS25111009-05 | HS25111009-06 | HS25111009-07 | HS25111009-08 |
| HS25111009-09 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID: R527150 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-11.24.2025** Units: **mg/L** Analysis Date: **24-Nov-2025 20:26**
Client ID: Run ID: **Skalar 03_527150** SeqNo: **9163404** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-11.24.2025** Units: **mg/L** Analysis Date: **24-Nov-2025 20:32**
Client ID: Run ID: **Skalar 03_527150** SeqNo: **9163405** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 972 | 5.00 | 1000 | 0 | 97.2 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-11.24.2025** Units: **mg/L** Analysis Date: **24-Nov-2025 20:38**
Client ID: Run ID: **Skalar 03_527150** SeqNo: **9163406** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 967.6 | 5.00 | 1000 | 0 | 96.8 | 85 - 115 | 972 | 0.454 | 20 | |

**DUP** Sample ID: **HS25111009-06DUP** Units: **mg/L** Analysis Date: **24-Nov-2025 22:01**
Client ID: **MW-2-500** Run ID: **Skalar 03_527150** SeqNo: **9163393** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | 43.6 | 5.00 | | | | | 42.3 | 3.03 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 154.2 | 5.00 | | | | | 156.2 | 1.29 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25111009-01 | HS25111009-02 | HS25111009-03 | HS25111009-04 |
| HS25111009-05 | HS25111009-06 | HS25111009-07 | HS25111009-08 |
| HS25111009-09 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25111009

**QC BATCH REPORT**

**Batch ID:** **R527189 ( 0 )** **Instrument:** **WetChem_HS** **Method:** **PH BY SM4500H+ B**

**DUP** Sample ID: **HS25111009-06DUP** Units: **pH Units** Analysis Date: **25-Nov-2025 16:30**
Client ID: **MW-2-500** Run ID: **WetChem_HS_527189** SeqNo: **9164312** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 10.28 | 1.00 | | | | | 10.29 | 0.0972 | 10 | |
| Temp Deg C @pH | 21.7 | 0 | | | | | 21.7 | 0 | 10 | |

**The following samples were analyzed in this batch:** HS25111009-01 HS25111009-02 HS25111009-03 HS25111009-04 HS25111009-05 HS25111009-06 HS25111009-07 HS25111009-08 HS25111009-09



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** **HS25111009**

**QUALIFIERS, ACRONYMS, UNITS**

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| M | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL/SDL |

| Acronym | Description |
|---|---|
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |
| SDL | Sample Detection Limit |
| TRRP | Texas Risk Reduction Program |

| Unit Reported | Description |
|---|---|
| mg/L | Milligrams per Liter |



RIGHT SOLUTIONS | RIGHT PARTNER

## CERTIFICATIONS,ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|---|---|---|
| Arizona | AZ0793 | 27-May-2026 |
| Arkansas | 88-00356_2024 | 17-Mar-2026 |
| California | 2919 - 2025 | 30-Apr-2026 |
| Dept of Defense | L24-240-R4 | 30-Apr-2026 |
| Dept of Defense | L24-239-R1 | 30-Apr-2026 |
| Florida | E87611-2025 | 30-Jun-2026 |
| Illinois | 200032 - 2025 | 31-Jul-2026 |
| Kansas | KS-C25-00168 | 31-Jul-2026 |
| Kentucky | 123043-2025 | 30-Apr-2026 |
| Louisiana | 03087-2025 | 30-Jun-2026 |
| Maine | 2024017 | 23-Jun-2026 |
| Maryland | 343-2025-26 | 30-Jun-2026 |
| Michigan | 9971-2025 | 30-Apr-2026 |
| Minnesota | 2856348 | 31-Dec-2025 |
| Missouri | 136 | 30-Sep-2026 |
| Nebraska | NE-OS-25-13 - 2025 | 30-Apr-2026 |
| Nevada | NV-C25-00124 - 2025 | 31-Jul-2026 |
| New Hampshire | 209425 | 24-Apr-2026 |
| New Jersey | TX008-2025 | 30-Jun-2026 |
| New York | 11707 - 2025 | 01-Apr-2026 |
| North Carolina | 624 - 2024 | 31-Dec-2025 |
| Oklahoma | 2023-140 | 31-Dec-2025 |
| Oregon | TX200002-013 | 15-May-2026 |
| Pennsylvania | 019 | 01-Jul-2026 |
| Tennessee | TN | 30-Apr-2026 |
| Texas | TX-C25-00104 | 30-Apr-2026 |
| Utah | TX026932025-17 | 31-Jul-2026 |



RIGHT SOLUTIONS | RIGHT PARTNER

## Sample Receipt Checklist

**Work Order ID:** HS25111009 **Date/Time Received:** **21-Nov-2025 09:24**

**Client Name:** ERMSW-HOU **Received by:** **Liam Senior**

| **Completed By:** | /S/ Edgar Zheku | 21-Nov-2025 18:05 | **Reviewed by:** | /S/ Beverly Mustafa | 24-Nov-2025 08:18 |
|---|---|---|---|---|---|
| | eSignature | Date/Time | | eSignature | Date/Time |

Matrices: **W** Carrier name: **FedEx**

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | 2 Page(s) |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | COC IDs:339489, 351996 |
| Samplers name present on COC? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |
| Temperature(s)/Thermometer(s): | 5.1UC/C, 4.7UC/C, 4.4UC/C, 3.6UC/C | IR 34 | |
| Cooler(s)/Kit(s): | 54041, BLUE, 54529, 50731 | | |
| Date/Time sample(s) sent to storage: | 11/21/2025 18:05 | | |
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

# Chain of Custody Form



COC ID: 339489

**HS25111009**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | | | |
|---|---|---|---|---|---|
| Purchase Order | 0777906 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC: (8260) BTEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 019-582 | 11/19/25 | 1048 | W | 1,2,9,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | ~~MW-1-500~~ MW-1-700 | | 1015 | W | 1,2,9,8 | | | | | | | | | | | | |
| 3 | 019-105 | | 1110 | | | | | | | | | | | | | | |
| 4 | MW-2-200 | | 1420 | | | | | | | | | | | | | | |
| 5 | MW-2-700 | | 1600 | | | | | | | | | | | | | | |
| 6 | MW-2-500 (MS, MSD) | 11/20/25 | 0930 | | | | | | | | | | | | | | |
| 7 | 019-1603 | 11/20/25 | 0795 | | | | | | | | | | | | | | |
| 8 | FB-112025 | 11/20/25 | 0800 | | | | | | | | | | | | | | |
| 9 | ~~MSD-MW-2-500~~ GW-DUP | 11/20/25 | 0930 | | | | | | | | | | | | | | |
| 10 | ~~DUP-MW-2-500~~ | 11/20/25 | 0930 | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Taylor Brown

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Kelly McNair | Date: 11/21/25 | Time: 0924 | Received by: [illegible] 11/21/25 | Notes: ERM Sulphur Dome | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): | Cooler ID: LR37 | Cooler Temp.: (-2.0) |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | 549041: 5.1 | |
| | | | | [illegible]: 4.7 | |
| | | | | 549529: 4.4 | |
| | | | | 549731: 3.6 | |

QC Package: (Check One Box Below)
☒ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

# Chain of Custody Form



COC ID: 351996

**HS25111009**

Environmental Resources Mgmt.
Sulphur Dome

, WV

ALS Project Manager:

| Customer Information | | Project Information | | | |
|---|---|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC (8260) B TEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CB-103025-293 | X | X | W | 1 | 2 | ✓ | | | | | | | | | | |
| 2 | CB-103025-281 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 3 | CB-100125-276 | | | | | | | | | | | | | | | | |
| 4 | CB-103025-277 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Taylor Brown

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

| Relinquished by: | Date: | Time: | Received by: | Notes: |
|---|---|---|---|---|
| Kelly McNair | 11/21/25 | 0924 | [illegible] 11/21/25 924 | ERM Sulphur Dome |
| Relinquished by: | Date: | Time: | Received by (Laboratory): | |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | |

| Cooler ID | Cooler Temp. |
|---|---|
| | |
| | |
| | |

QC Package: (Check One Box Below)
☒ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

must be made in writing once samples and COC Form have been submitted to ALS Environmental.
greed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
a legal document. All information must be completed accurately.

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T: +1 281 530 5656
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December 30, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25120866**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 29 sample(s) on Dec 19, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

**Generated By: JUMOKE.LAWAL**
Alexis Dorenbosch
Project Manager

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**Work Order:** HS25120866

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS25120866-01 | FB-121725 | Water | | 17-Dec-2025 14:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-02 | MW-3-700 | Water | | 17-Dec-2025 14:15 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-03 | MW-3-500 | Water | | 17-Dec-2025 09:25 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-04 | 019-1603 | Water | | 17-Dec-2025 11:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-05 | 019-1055 | Water | | 17-Dec-2025 11:25 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-06 | GW-Rinsate | Water | | 17-Dec-2025 15:45 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-07 | FB-121825 | Water | | 18-Dec-2025 11:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-08 | MW-2-700 | Water | | 18-Dec-2025 09:35 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-09 | MW-2-200 | Water | | 18-Dec-2025 11:30 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-10 | MW-2-500 | Water | | 18-Dec-2025 16:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-11 | MW-1-500 | Water | | 16-Dec-2025 11:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-12 | MW-1-700 | Water | | 16-Dec-2025 14:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-13 | MW-3-200 | Water | | 16-Dec-2025 16:25 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-14 | 019-582 | Water | | 16-Dec-2025 08:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-15 | Cottages | Water | | 16-Dec-2025 08:50 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-16 | FB-121625 | Water | | 16-Dec-2025 08:20 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-17 | FB-121525 | Water | | 16-Dec-2025 15:10 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-18 | MW-1-200 | Water | | 15-Dec-2025 15:40 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-19 | 019-580 | Water | | 16-Dec-2025 07:45 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-20 | 019-995 | Water | | 17-Dec-2025 11:55 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-21 | GW-DUP-01 | Water | | 18-Dec-2025 00:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-22 | CG-103025-650 | Water | CG-103025-650 | 18-Dec-2025 00:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-23 | CG-103025-597 | Water | CG-103025-597 | 18-Dec-2025 00:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-24 | CG-103025-699 | Water | CG-103025-699 | 18-Dec-2025 00:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-25 | CG-103025-596 | Water | CG-103025-596 | 18-Dec-2025 00:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-26 | CG-103025-585 | Water | CG-103025-585 | 18-Dec-2025 00:00 | 19-Dec-2025 11:05 | ☐ |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**Work Order:** HS25120866

## SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| HS25120866-27 | CG-061125-767 | Water | CG-103025-767 | 18-Dec-2025 00:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-28 | CG-103025-595 | Water | CG-103025-595 | 18-Dec-2025 00:00 | 19-Dec-2025 11:05 | ☐ |
| HS25120866-29 | CG-103025-589 | Water | CG-103025-589 | 18-Dec-2025 00:00 | 19-Dec-2025 11:05 | ☐ |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25120866

## Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

## GC Semivolatiles by Method MA EPH

### Batch ID: 236899,236902

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GC Volatiles by Method MA VPH

### Batch ID: R528954,R528955,R529008,R529009

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## GCMS Volatiles by Method SW8260

### Batch ID: R528728

**Sample ID: LCS**

• Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

### Batch ID: R528652,R528667

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

### Batch ID: R528639

**Sample ID: LCS**

• Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

## Metals by Method SW7470A

### Batch ID: 237100,237101

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## Metals by Method SW6020A

### Batch ID: 237013

**Sample ID: MW-1-700 (HS25120866-12MS)**

• Barium failed for MS but passed for MSD and PDS.

• The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Sodium)



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt. **CASE NARRATIVE**
**Project:** Sulphur Dome
**Work Order:** HS25120866

## Metals by Method SW6020A

### Batch ID: 237012

**Sample ID: MW-2-500 (HS25120866-10MS/MSD)**

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Potassium, Sodium.

**Sample ID: MW-2-500 (HS25120866-10PDS)**

- The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. Potassium.

## WetChemistry by Method SM4500H+ B

### Batch ID: R528715,R528716

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method M2540C

### Batch ID: R528724,R528820

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method SW9056

### Batch ID: R528861

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

### Batch ID: R528798

**Sample ID: MW-3-700 (HS25120866-02)**

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Sulfate)

## WetChemistry by Method SM2320B

### Batch ID: R528713,R528714

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method E376.1

### Batch ID: R528707,R528778

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## WetChemistry by Method SM4500 S2-F

### Batch ID: R528705,R528777

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-121725
Collection Date: 17-Dec-2025 14:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: DP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 07:41 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 07:41 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 07:41 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 07:41 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 07:41 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 07:41 |
| *Surr: 1,2-Dichloroethane-d4* | *106* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 07:41* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 07:41* |
| *Surr: Dibromofluoromethane* | *104* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 07:41* |
| *Surr: Toluene-d8* | *107* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 07:41* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 24-Dec-2025 17:41 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 17:41 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 17:41 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *80.0* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 17:41* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *80.0* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 17:41* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 15:50 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 15:50 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 15:50 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 15:50 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 15:50 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 15:50 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 15:50 |
| *Surr: 1-Chlorooctadecane* | *54.2* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 15:50* |
| *Surr: 2-Bromonaphthalene* | *98.4* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 15:50* |
| *Surr: 2-Fluorobiphenyl* | *96.2* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 15:50* |
| *Surr: o-Terphenyl* | *86.2* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 15:50* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-121725
Collection Date: 17-Dec-2025 14:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-01
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:28 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:28 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 24-Dec-2025 16:28 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:28 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 24-Dec-2025 16:28 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:28 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 24-Dec-2025 16:28 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:28 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:28 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 24-Dec-2025 16:28 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 24-Dec-2025 16:28 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:28 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:28 |
| **Zinc** | **0.00584** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 16:28 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:33 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **34.0** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 18:41 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 18:41 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **6.00** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 18:41 |
| **Temp Deg C @pH** | **22.4** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 18:41 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 10:48 |
| Chloride | U | | 0.200 | 0.500 | mg/L | 1 | 22-Dec-2025 10:48 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 22-Dec-2025 10:48 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 17-Dec-2025 14:15

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 09:39 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:39 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 09:39 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:39 |
| **Toluene** | **0.0014** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 20-Dec-2025 09:39 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 09:39 |
| *Surr: 1,2-Dichloroethane-d4* | *98.7* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 09:39* |
| *Surr: 4-Bromofluorobenzene* | *105* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 09:39* |
| *Surr: Dibromofluoromethane* | *95.4* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 09:39* |
| *Surr: Toluene-d8* | *95.0* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 09:39* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| **Aliphatics >C6 - C8** | **0.00900** | | **0.00180** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 19:37 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 19:37 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 19:37 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *104* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 19:37* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *104* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 19:37* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:18 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:18 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:18 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:18 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:18 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:18 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:18 |
| *Surr: 1-Chlorooctadecane* | *92.5* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 16:18* |
| *Surr: 2-Bromonaphthalene* | *105* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 16:18* |
| *Surr: 2-Fluorobiphenyl* | *102* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 16:18* |
| *Surr: o-Terphenyl* | *87.9* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 16:18* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 17-Dec-2025 14:15

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-02
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:30 |
| **Barium** | **1.19** | | **0.000750** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:30 |
| **Calcium** | **46.6** | | **0.120** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:30 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:30 |
| **Iron** | **0.220** | | **0.0600** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:30 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:30 |
| **Magnesium** | **5.84** | | **0.0408** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:30 |
| **Manganese** | **0.0106** | | **0.00190** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:30 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:30 |
| **Potassium** | **59.0** | | **0.0869** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:30 |
| **Sodium** | **721** | | **2.60** | **10.0** | **mg/L** | 20 | 24-Dec-2025 17:02 |
| **Strontium** | **2.08** | | **0.00600** | **0.100** | **mg/L** | 20 | 24-Dec-2025 17:02 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:30 |
| **Zinc** | **0.00338** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 16:30 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:35 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **2,670** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **23.4** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 18:48 |
| **Alkalinity, Carbonate (As CaCO3)** | **2.80** | J | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 18:48 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.56** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 18:48 |
| **Temp Deg C @pH** | **22.3** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 18:48 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **1.44** | | **0.0600** | **0.200** | **mg/L** | 2 | 22-Dec-2025 10:54 |
| **Chloride** | **1,340** | | **4.00** | **10.0** | **mg/L** | 20 | 22-Dec-2025 13:43 |
| Sulfate | U | | 0.400 | 1.00 | mg/L | 2 | 22-Dec-2025 10:54 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 17-Dec-2025 09:25

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| **Benzene** | **0.0014** | | **0.00028** | **0.0010** | **mg/L** | 1 | 20-Dec-2025 10:02 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:02 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 10:02 |
| o-Xylene | U | | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:02 |
| **Toluene** | **0.0019** | J | **0.00033** | **0.0020** | **mg/L** | 1 | 20-Dec-2025 10:02 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 10:02 |
| *Surr: 1,2-Dichloroethane-d4* | *88.1* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 10:02* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 10:02* |
| *Surr: Dibromofluoromethane* | *91.2* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 10:02* |
| *Surr: Toluene-d8* | *97.4* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 10:02* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| **Aliphatics >C6 - C8** | **0.275** | | **0.00900** | **0.0250** | **mg/L** | 5 | 29-Dec-2025 17:30 |
| Aliphatics >C8 - C10 | U | | 0.00200 | 0.0250 | mg/L | 5 | 29-Dec-2025 17:30 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 20:16 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *100* | | | *70-130* | *%REC* | *5* | *29-Dec-2025 17:30* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *89.6* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 20:16* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:47 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:47 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:47 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:47 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:47 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:47 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 16:47 |
| *Surr: 1-Chlorooctadecane* | *90.9* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 16:47* |
| *Surr: 2-Bromonaphthalene* | *105* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 16:47* |
| *Surr: 2-Fluorobiphenyl* | *104* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 16:47* |
| *Surr: o-Terphenyl* | *90.1* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 16:47* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 17-Dec-2025 09:25

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-03
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:31 |
| **Barium** | **0.117** | | **0.000750** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:31 |
| **Calcium** | **136** | | **0.120** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:31 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:31 |
| **Iron** | **0.970** | | **0.0600** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:31 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:31 |
| **Magnesium** | **24.6** | | **0.0408** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:31 |
| **Manganese** | **0.0112** | | **0.00190** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:31 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:31 |
| **Potassium** | **66.3** | | **0.0869** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:31 |
| **Sodium** | **1,010** | | **6.50** | **25.0** | **mg/L** | 50 | 24-Dec-2025 17:03 |
| **Strontium** | **6.31** | | **0.0150** | **0.250** | **mg/L** | 50 | 24-Dec-2025 17:03 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:31 |
| **Zinc** | **0.00359** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 16:31 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:36 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **1.06** | | **0.500** | **1.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **3,990** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **8.30** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 18:53 |
| **Alkalinity, Carbonate (As CaCO3)** | **6.60** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 18:53 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **1.00** | J | **0.920** | **5.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **9.02** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 18:53 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 18:53 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **1.09** | | **0.0600** | **0.200** | **mg/L** | 2 | 22-Dec-2025 11:00 |
| **Chloride** | **1,650** | | **4.00** | **10.0** | **mg/L** | 20 | 22-Dec-2025 13:49 |
| **Sulfate** | **359** | | **4.00** | **10.0** | **mg/L** | 20 | 22-Dec-2025 13:49 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 17-Dec-2025 11:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 10:24 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:24 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 10:24 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:24 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:24 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 10:24 |
| *Surr: 1,2-Dichloroethane-d4* | *90.5* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 10:24* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 10:24* |
| *Surr: Dibromofluoromethane* | *95.0* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 10:24* |
| *Surr: Toluene-d8* | *94.6* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 10:24* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 24-Dec-2025 20:54 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 20:54 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 20:54 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *92.8* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 20:54* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *92.8* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 20:54* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:16 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:16 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:16 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:16 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:16 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:16 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:16 |
| *Surr: 1-Chlorooctadecane* | *84.4* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 17:16* |
| *Surr: 2-Bromonaphthalene* | *107* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 17:16* |
| *Surr: 2-Fluorobiphenyl* | *102* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 17:16* |
| *Surr: o-Terphenyl* | *90.0* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 17:16* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 17-Dec-2025 11:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-04
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:33 |
| **Barium** | **0.185** | | **0.000750** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:33 |
| **Calcium** | **20.6** | | **0.120** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:33 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:33 |
| **Iron** | **8.42** | | **0.0600** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:33 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:33 |
| **Magnesium** | **6.79** | | **0.0408** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:33 |
| **Manganese** | **0.408** | | **0.00190** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:33 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:33 |
| **Potassium** | **2.78** | | **0.0869** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:33 |
| **Sodium** | **35.9** | | **0.130** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:33 |
| **Strontium** | **0.197** | | **0.000300** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:33 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:33 |
| **Zinc** | **0.0136** | | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 16:33 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:38 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **2.12** | | **0.500** | **1.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **196** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **138** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 18:59 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 18:59 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **2.00** | J | **0.920** | **5.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.82** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 18:59 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 18:59 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 11:06 |
| **Chloride** | **32.4** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 11:06 |
| **Sulfate** | **0.627** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 11:06 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1055
Collection Date: 17-Dec-2025 11:25

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 10:47 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:47 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 10:47 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:47 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:47 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 10:47 |
| *Surr: 1,2-Dichloroethane-d4* | *89.2* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 10:47* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 10:47* |
| *Surr: Dibromofluoromethane* | *92.7* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 10:47* |
| *Surr: Toluene-d8* | *95.7* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 10:47* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 24-Dec-2025 21:33 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 21:33 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 21:33 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *93.2* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 21:33* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *101* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 21:33* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:45 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:45 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:45 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:45 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:45 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:45 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 17:45 |
| *Surr: 1-Chlorooctadecane* | *64.7* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 17:45* |
| *Surr: 2-Bromonaphthalene* | *109* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 17:45* |
| *Surr: 2-Fluorobiphenyl* | *105* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 17:45* |
| *Surr: o-Terphenyl* | *75.9* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 17:45* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1055
Collection Date: 17-Dec-2025 11:25

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-05
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:35 |
| **Barium** | **0.286** | | **0.000750** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| **Calcium** | **24.0** | | **0.120** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:35 |
| **Iron** | **20.9** | | **0.0600** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| **Lead** | **0.000500** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| **Magnesium** | **7.37** | | **0.0408** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| **Manganese** | **0.528** | | **0.00190** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:35 |
| **Potassium** | **2.54** | | **0.0869** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| **Sodium** | **26.1** | | **0.130** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| **Strontium** | **0.236** | | **0.000300** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:35 |
| **Zinc** | **0.00624** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 16:35 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:40 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **190** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **115** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:04 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 19:04 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.62** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 19:04 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 19:04 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0925** | J | **0.0300** | **0.100** | **mg/L** | 1 | 22-Dec-2025 11:11 |
| **Chloride** | **29.1** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 11:11 |
| **Sulfate** | **2.33** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 11:11 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-Rinsate
Collection Date: 17-Dec-2025 15:45

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 08:07 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:07 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 08:07 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:07 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:07 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 08:07 |
| *Surr: 1,2-Dichloroethane-d4* | *99.8* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 08:07* |
| *Surr: 4-Bromofluorobenzene* | *105* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 08:07* |
| *Surr: Dibromofluoromethane* | *94.7* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 08:07* |
| *Surr: Toluene-d8* | *95.7* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 08:07* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 24-Dec-2025 22:12 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 22:12 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 22:12 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *83.2* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 22:12* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *83.2* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 22:12* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:02 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:02 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:02 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:02 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:02 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:02 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:02 |
| *Surr: 1-Chlorooctadecane* | *80.5* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 11:02* |
| *Surr: 2-Bromonaphthalene* | *120* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 11:02* |
| *Surr: 2-Fluorobiphenyl* | *116* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 11:02* |
| *Surr: o-Terphenyl* | *104* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 11:02* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-Rinsate
Collection Date: 17-Dec-2025 15:45

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-06
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:37 |
| **Barium** | **0.00643** | | **0.000750** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:37 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 24-Dec-2025 16:37 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:37 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 24-Dec-2025 16:37 |
| **Lead** | **0.000602** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 24-Dec-2025 16:37 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 24-Dec-2025 16:37 |
| **Manganese** | **0.00202** | J | **0.00190** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:37 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:37 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 24-Dec-2025 16:37 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 24-Dec-2025 16:37 |
| **Strontium** | **0.00446** | J | **0.000300** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:37 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:37 |
| **Zinc** | **0.0378** | | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 16:37 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:41 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **48.0** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 19:09 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 19:09 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **6.02** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 19:09 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 19:09 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 11:17 |
| **Chloride** | **0.239** | J | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 11:17 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 22-Dec-2025 11:17 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-121825
Collection Date: 18-Dec-2025 11:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 08:30 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:30 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 08:30 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:30 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:30 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 08:30 |
| *Surr: 1,2-Dichloroethane-d4* | *98.6* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 08:30* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 08:30* |
| *Surr: Dibromofluoromethane* | *98.5* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 08:30* |
| *Surr: Toluene-d8* | *96.8* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 08:30* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 24-Dec-2025 13:49 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 13:49 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 13:49 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *90.4* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 13:49* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *83.2* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 13:49* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:31 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:31 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:31 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:31 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:31 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:31 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 11:31 |
| *Surr: 1-Chlorooctadecane* | *60.0* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 11:31* |
| *Surr: 2-Bromonaphthalene* | *111* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 11:31* |
| *Surr: 2-Fluorobiphenyl* | *108* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 11:31* |
| *Surr: o-Terphenyl* | *85.2* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 11:31* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-121825
Collection Date: 18-Dec-2025 11:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-07
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:39 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:39 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 24-Dec-2025 16:39 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:39 |
| **Iron** | **0.170** | J | **0.0600** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:39 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:39 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 24-Dec-2025 16:39 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:39 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:39 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 24-Dec-2025 16:39 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 24-Dec-2025 16:39 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:39 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:39 |
| **Zinc** | **0.00505** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 16:39 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:43 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **0.638** | J | **0.500** | **1.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **126** | | **3.00** | **10.0** | **mg/L** | 1 | 23-Dec-2025 08:19 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 19:26 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 19:26 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **6.11** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 19:26 |
| **Temp Deg C @pH** | **22.4** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 19:26 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 11:23 |
| **Chloride** | **0.227** | J | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 11:23 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 22-Dec-2025 11:23 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 18-Dec-2025 09:35

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 11:10 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 11:10 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 11:10 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 11:10 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 11:10 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 11:10 |
| *Surr: 1,2-Dichloroethane-d4* | *99.3* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 11:10* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 11:10* |
| *Surr: Dibromofluoromethane* | *97.5* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 11:10* |
| *Surr: Toluene-d8* | *95.1* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 11:10* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 24-Dec-2025 22:51 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 22:51 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 22:51 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *97.2* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 22:51* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *97.2* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 22:51* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:00 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:00 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:00 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:00 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:00 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:00 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:00 |
| *Surr: 1-Chlorooctadecane* | *53.2* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:00* |
| *Surr: 2-Bromonaphthalene* | *107* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:00* |
| *Surr: 2-Fluorobiphenyl* | *104* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:00* |
| *Surr: o-Terphenyl* | *77.0* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:00* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 18-Dec-2025 09:35

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-08
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.000794** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 24-Dec-2025 16:40 |
| **Barium** | **0.0296** | | **0.000750** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:40 |
| **Calcium** | **3.55** | | **0.120** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:40 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:40 |
| **Iron** | **0.515** | | **0.0600** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:40 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:40 |
| **Magnesium** | **0.258** | | **0.0408** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:40 |
| **Manganese** | **0.00456** | J | **0.00190** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:40 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:40 |
| **Potassium** | **3.39** | | **0.0869** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:40 |
| **Sodium** | **200** | | **2.60** | **10.0** | **mg/L** | 20 | 24-Dec-2025 17:05 |
| **Strontium** | **0.0462** | | **0.000300** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:40 |
| **Vanadium** | **0.000859** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:40 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 24-Dec-2025 16:40 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:45 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **2.12** | | **0.500** | **1.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **512** | | **3.00** | **10.0** | **mg/L** | 1 | 23-Dec-2025 08:19 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **118** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:31 |
| **Alkalinity, Carbonate (As CaCO3)** | **88.8** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:31 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **2.00** | J | **0.920** | **5.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **9.67** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 19:31 |
| **Temp Deg C @pH** | **22.4** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 19:31 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.216** | | **0.0300** | **0.100** | **mg/L** | 1 | 22-Dec-2025 11:29 |
| **Chloride** | **206** | | **1.00** | **2.50** | **mg/L** | 5 | 22-Dec-2025 13:54 |
| **Sulfate** | **0.274** | J | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 11:29 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 18-Dec-2025 11:30

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 11:33 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 11:33 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 11:33 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 11:33 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 11:33 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 11:33 |
| *Surr: 1,2-Dichloroethane-d4* | *94.8* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 11:33* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 11:33* |
| *Surr: Dibromofluoromethane* | *95.2* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 11:33* |
| *Surr: Toluene-d8* | *95.0* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 11:33* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 24-Dec-2025 23:29 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 23:29 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 23:29 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *91.6* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 23:29* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *91.6* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 23:29* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:29 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:29 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:29 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:29 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:29 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:29 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:29 |
| *Surr: 1-Chlorooctadecane* | *70.6* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:29* |
| *Surr: 2-Bromonaphthalene* | *115* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:29* |
| *Surr: 2-Fluorobiphenyl* | *111* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:29* |
| *Surr: o-Terphenyl* | *88.8* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:29* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 18-Dec-2025 11:30

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-09
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.00278** | | **0.000510** | **0.00200** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| **Barium** | **0.178** | | **0.000750** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| **Calcium** | **17.1** | | **0.120** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:42 |
| **Iron** | **1.19** | | **0.0600** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:42 |
| **Magnesium** | **4.79** | | **0.0408** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| **Manganese** | **0.0411** | | **0.00190** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:42 |
| **Potassium** | **3.45** | | **0.0869** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| **Sodium** | **77.4** | | **0.130** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| **Strontium** | **0.320** | | **0.000300** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:42 |
| **Zinc** | **0.00672** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 16:42 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:52 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **250** | | **3.00** | **10.0** | **mg/L** | 1 | 23-Dec-2025 08:19 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **214** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:37 |
| **Alkalinity, Carbonate (As CaCO3)** | **9.40** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:37 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.45** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 19:37 |
| **Temp Deg C @pH** | **22.3** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 19:37 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 11:58 |
| **Chloride** | **21.9** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 11:58 |
| **Sulfate** | **0.751** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 11:58 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 18-Dec-2025 16:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-10
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | U | | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 14:58 |
| Ethylbenzene | U | | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 14:58 |
| m,p-Xylene | U | | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 14:58 |
| **o-Xylene** | **0.00064** | J | **0.00031** | **0.0020** | **mg/L** | 1 | 20-Dec-2025 14:58 |
| Toluene | U | | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 14:58 |
| Xylenes, Total | U | | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 14:58 |
| *Surr: 1,2-Dichloroethane-d4* | *89.9* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 14:58* |
| *Surr: 4-Bromofluorobenzene* | *105* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 14:58* |
| *Surr: Dibromofluoromethane* | *94.4* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 14:58* |
| *Surr: Toluene-d8* | *96.1* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 14:58* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | U | | 0.00180 | 0.00500 | mg/L | 1 | 25-Dec-2025 00:08 |
| Aliphatics >C8 - C10 | U | | 0.000400 | 0.00500 | mg/L | 1 | 25-Dec-2025 00:08 |
| Aromatics >C8 - C10 | U | | 0.000600 | 0.0200 | mg/L | 1 | 25-Dec-2025 00:08 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *78.4* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 00:08* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *78.4* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 00:08* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 14:23 |
| Aliphatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 14:23 |
| Aliphatics >C16 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 14:23 |
| Aromatics >C10 - C12 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 14:23 |
| Aromatics >C12 - C16 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 14:23 |
| Aromatics >C16 - C21 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 14:23 |
| Aromatics >C21 - C35 | U | | 0.0250 | 0.100 | mg/L | 1 | 27-Dec-2025 14:23 |
| *Surr: 1-Chlorooctadecane* | *71.6* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 14:23* |
| *Surr: 2-Bromonaphthalene* | *118* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 14:23* |
| *Surr: 2-Fluorobiphenyl* | *114* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 14:23* |
| *Surr: o-Terphenyl* | *87.5* | | | *40-140* | *%REC* | *1* | *27-Dec-2025 14:23* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 18-Dec-2025 16:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-10
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.000862** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **Barium** | **0.0765** | | **0.000750** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **Calcium** | **5.00** | | **0.120** | **0.500** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 15:46 |
| **Iron** | **0.996** | | **0.0600** | **0.200** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **Lead** | **0.000970** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **Magnesium** | **0.719** | | **0.0408** | **0.200** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **Manganese** | **0.0278** | | **0.00190** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 15:46 |
| **Potassium** | **64.0** | | **0.0869** | **0.500** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **Sodium** | **68.9** | | **0.130** | **0.500** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **Strontium** | **0.621** | | **0.000300** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **Vanadium** | **0.000741** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **Zinc** | **0.00523** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 15:46 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 14:54 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **316** | | **3.00** | **10.0** | **mg/L** | 1 | 23-Dec-2025 08:19 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 19:41 |
| **Alkalinity, Carbonate (As CaCO3)** | **217** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:41 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **10.7** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 19:41 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 19:41 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0826** | J | **0.0300** | **0.100** | **mg/L** | 1 | 22-Dec-2025 12:04 |
| **Chloride** | **36.4** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:04 |
| **Sulfate** | **1.78** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:04 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 16-Dec-2025 11:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-11
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 11:56 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 11:56 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 11:56 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 11:56 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 11:56 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 11:56 |
| *Surr: 1,2-Dichloroethane-d4* | *91.0* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 11:56* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 11:56* |
| *Surr: Dibromofluoromethane* | *94.1* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 11:56* |
| *Surr: Toluene-d8* | *94.9* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 11:56* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Dec-2025 03:22 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Dec-2025 03:22 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Dec-2025 03:22 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *92.0* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 03:22* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *92.0* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 03:22* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:58 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:58 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:58 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:58 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:58 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:58 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 12:58 |
| *Surr: 1-Chlorooctadecane* | *78.7* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:58* |
| *Surr: 2-Bromonaphthalene* | *113* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:58* |
| *Surr: 2-Fluorobiphenyl* | *111* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:58* |
| *Surr: o-Terphenyl* | *101* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 12:58* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 16-Dec-2025 11:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-11
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JC |
| **Arsenic** | **0.000760** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| **Barium** | **0.189** | | **0.000750** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| **Calcium** | **14.8** | | **0.120** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:51 |
| **Iron** | **1.81** | | **0.0600** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 24-Dec-2025 16:51 |
| **Magnesium** | **5.18** | | **0.0408** | **0.200** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| **Manganese** | **0.0635** | | **0.00190** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:51 |
| **Potassium** | **7.14** | | **0.0869** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| **Sodium** | **43.5** | | **0.130** | **0.500** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| **Strontium** | **0.270** | | **0.000300** | **0.00500** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 24-Dec-2025 16:51 |
| **Zinc** | **0.00459** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 24-Dec-2025 16:51 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:01 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **2.12** | | **0.500** | **1.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **168** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **132** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:52 |
| **Alkalinity, Carbonate (As CaCO3)** | **11.6** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:52 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **2.00** | J | **0.920** | **5.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.66** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 19:52 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 19:52 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 12:21 |
| **Chloride** | **20.6** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:21 |
| **Sulfate** | **0.367** | J | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:21 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 16-Dec-2025 14:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-12
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 12:18 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 12:18 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 12:18 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 12:18 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 12:18 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 12:18 |
| *Surr: 1,2-Dichloroethane-d4* | *92.4* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 12:18* |
| *Surr: 4-Bromofluorobenzene* | *105* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 12:18* |
| *Surr: Dibromofluoromethane* | *94.0* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 12:18* |
| *Surr: Toluene-d8* | *95.1* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 12:18* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Dec-2025 04:01 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Dec-2025 04:01 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Dec-2025 04:01 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *102* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 04:01* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *102* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 04:01* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:27 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:27 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:27 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:27 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:27 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:27 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:27 |
| *Surr: 1-Chlorooctadecane* | *96.2* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 13:27* |
| *Surr: 2-Bromonaphthalene* | *93.0* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 13:27* |
| *Surr: 2-Fluorobiphenyl* | *103* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 13:27* |
| *Surr: o-Terphenyl* | *94.9* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 13:27* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 16-Dec-2025 14:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-12
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| **Arsenic** | **0.00192** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| **Barium** | **0.0516** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| **Calcium** | **2.67** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:18 |
| **Iron** | **0.538** | | **0.0600** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:18 |
| **Magnesium** | **0.275** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| **Manganese** | **0.00686** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:18 |
| **Potassium** | **2.27** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| **Sodium** | **186** | | **2.60** | **10.0** | **mg/L** | 20 | 29-Dec-2025 14:47 |
| **Strontium** | **0.0621** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| **Vanadium** | **0.00117** | J | **0.000600** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| **Zinc** | **0.00367** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 29-Dec-2025 11:18 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:02 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **2.12** | | **0.500** | **1.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **424** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **202** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:58 |
| **Alkalinity, Carbonate (As CaCO3)** | **96.4** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 19:58 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **2.00** | J | **0.920** | **5.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **9.51** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 19:58 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 19:58 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 12:27 |
| **Chloride** | **97.6** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:27 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 22-Dec-2025 12:27 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 16-Dec-2025 16:25

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-13
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 12:41 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 12:41 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 12:41 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 12:41 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 12:41 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 12:41 |
| *Surr: 1,2-Dichloroethane-d4* | *88.9* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 12:41* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 12:41* |
| *Surr: Dibromofluoromethane* | *93.2* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 12:41* |
| *Surr: Toluene-d8* | *95.1* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 12:41* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Dec-2025 04:39 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Dec-2025 04:39 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Dec-2025 04:39 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *88.0* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 04:39* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *88.0* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 04:39* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:56 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:56 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:56 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:56 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:56 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:56 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 13:56 |
| *Surr: 1-Chlorooctadecane* | *81.5* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 13:56* |
| *Surr: 2-Bromonaphthalene* | *109* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 13:56* |
| *Surr: 2-Fluorobiphenyl* | *105* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 13:56* |
| *Surr: o-Terphenyl* | *95.7* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 13:56* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 16-Dec-2025 16:25

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-13
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| **Arsenic** | **0.00146** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| **Barium** | **0.193** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| **Calcium** | **15.5** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:26 |
| **Iron** | **0.391** | | **0.0600** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:26 |
| **Magnesium** | **3.56** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| **Manganese** | **0.0172** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:26 |
| **Potassium** | **25.1** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| **Sodium** | **110** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| **Strontium** | **0.261** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:26 |
| **Zinc** | **0.00510** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 29-Dec-2025 11:26 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:04 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **1.06** | | **0.500** | **1.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **406** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **301** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 20:04 |
| **Alkalinity, Carbonate (As CaCO3)** | **18.0** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 20:04 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **1.00** | J | **0.920** | **5.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.56** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 20:04 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 20:04 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 12:33 |
| **Chloride** | **22.9** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:33 |
| **Sulfate** | **0.270** | J | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:33 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 16-Dec-2025 08:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-14
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 13:04 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 13:04 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 13:04 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 13:04 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 13:04 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 13:04 |
| *Surr: 1,2-Dichloroethane-d4* | *88.5* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 13:04* |
| *Surr: 4-Bromofluorobenzene* | *105* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 13:04* |
| *Surr: Dibromofluoromethane* | *90.8* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 13:04* |
| *Surr: Toluene-d8* | *95.8* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 13:04* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Dec-2025 05:18 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Dec-2025 05:18 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Dec-2025 05:18 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *92.4* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 05:18* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *92.4* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 05:18* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 14:24 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 14:24 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 14:24 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 14:24 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 14:24 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 14:24 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 28-Dec-2025 14:24 |
| *Surr: 1-Chlorooctadecane* | *79.6* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 14:24* |
| *Surr: 2-Bromonaphthalene* | *101* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 14:24* |
| *Surr: 2-Fluorobiphenyl* | *97.1* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 14:24* |
| *Surr: o-Terphenyl* | *88.6* | | | *40-140* | *%REC* | *1* | *28-Dec-2025 14:24* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 16-Dec-2025 08:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-14
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| **Arsenic** | **0.000582** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| **Barium** | **0.218** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| **Calcium** | **22.7** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:28 |
| **Iron** | **3.29** | | **0.0600** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:28 |
| **Magnesium** | **6.94** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| **Manganese** | **0.367** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:28 |
| **Potassium** | **2.45** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| **Sodium** | **23.8** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| **Strontium** | **0.214** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:28 |
| **Zinc** | **0.00536** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 29-Dec-2025 11:28 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:06 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **164** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **116** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 20:09 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 20:09 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.56** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 20:09 |
| **Temp Deg C @pH** | **22.3** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 20:09 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 12:39 |
| **Chloride** | **23.2** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:39 |
| **Sulfate** | **3.09** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:39 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 16-Dec-2025 08:50

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-15
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 13:27 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 13:27 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 13:27 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 13:27 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 13:27 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 13:27 |
| *Surr: 1,2-Dichloroethane-d4* | *90.1* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 13:27* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 13:27* |
| *Surr: Dibromofluoromethane* | *94.4* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 13:27* |
| *Surr: Toluene-d8* | *95.1* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 13:27* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 25-Dec-2025 05:57 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 25-Dec-2025 05:57 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 25-Dec-2025 05:57 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *76.8* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 05:57* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *85.2* | | | *70-130* | *%REC* | *1* | *25-Dec-2025 05:57* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:22 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:22 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:22 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:22 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:22 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:22 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:22 |
| *Surr: 1-Chlorooctadecane* | *79.6* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 20:22* |
| *Surr: 2-Bromonaphthalene* | *99.5* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 20:22* |
| *Surr: 2-Fluorobiphenyl* | *96.3* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 20:22* |
| *Surr: o-Terphenyl* | *80.7* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 20:22* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 16-Dec-2025 08:50

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-15
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:35 |
| **Barium** | **0.177** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| **Calcium** | **13.6** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:35 |
| **Iron** | **5.53** | | **0.0600** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| **Lead** | **0.00173** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| **Magnesium** | **3.78** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| **Manganese** | **0.190** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| **Nickel** | **0.00134** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| **Potassium** | **2.15** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| **Sodium** | **71.6** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| **Strontium** | **0.170** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:35 |
| **Zinc** | **0.146** | | **0.00300** | **0.0100** | **mg/L** | 1 | 29-Dec-2025 11:35 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:08 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **236** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **141** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 20:15 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 20:15 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.60** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 20:15 |
| **Temp Deg C @pH** | **22.3** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 20:15 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.104** | | **0.0300** | **0.100** | **mg/L** | 1 | 22-Dec-2025 12:45 |
| **Chloride** | **54.4** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:45 |
| **Sulfate** | **0.260** | J | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:45 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-121625
Collection Date: 16-Dec-2025 08:20

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-16
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 08:53 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:53 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 08:53 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:53 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:53 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 08:53 |
| *Surr: 1,2-Dichloroethane-d4* | *102* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 08:53* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 08:53* |
| *Surr: Dibromofluoromethane* | *97.4* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 08:53* |
| *Surr: Toluene-d8* | *96.0* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 08:53* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 24-Dec-2025 14:27 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 14:27 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 14:27 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *77.2* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 14:27* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *84.8* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 14:27* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:51 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:51 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:51 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:51 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:51 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:51 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 20:51 |
| *Surr: 1-Chlorooctadecane* | *85.4* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 20:51* |
| *Surr: 2-Bromonaphthalene* | *105* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 20:51* |
| *Surr: 2-Fluorobiphenyl* | *102* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 20:51* |
| *Surr: o-Terphenyl* | *88.1* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 20:51* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-121625
Collection Date: 16-Dec-2025 08:20

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-16
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:37 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:37 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 29-Dec-2025 11:37 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:37 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 29-Dec-2025 11:37 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:37 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 29-Dec-2025 11:37 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:37 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:37 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 29-Dec-2025 11:37 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 29-Dec-2025 11:37 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:37 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:37 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 29-Dec-2025 11:37 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:09 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **0.638** | J | **0.500** | **1.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **58.0** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **1.30** | J | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 20:32 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 20:32 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **6.48** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 20:32 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 20:32 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 12:50 |
| **Chloride** | **0.388** | J | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 12:50 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 22-Dec-2025 12:50 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-121525
Collection Date: 16-Dec-2025 15:10

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-17
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 09:16 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:16 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 09:16 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:16 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:16 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 09:16 |
| *Surr: 1,2-Dichloroethane-d4* | *93.2* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 09:16* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 09:16* |
| *Surr: Dibromofluoromethane* | *95.9* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 09:16* |
| *Surr: Toluene-d8* | *96.9* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 09:16* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 24-Dec-2025 15:06 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 24-Dec-2025 15:06 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 24-Dec-2025 15:06 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *100* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 15:06* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *90.8* | | | *70-130* | *%REC* | *1* | *24-Dec-2025 15:06* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:20 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:20 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:20 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:20 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:20 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:20 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:20 |
| *Surr: 1-Chlorooctadecane* | *60.8* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 21:20* |
| *Surr: 2-Bromonaphthalene* | *97.7* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 21:20* |
| *Surr: 2-Fluorobiphenyl* | *95.4* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 21:20* |
| *Surr: o-Terphenyl* | *71.1* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 21:20* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-121525
Collection Date: 16-Dec-2025 15:10

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-17
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| Arsenic | U | | 0.000510 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:39 |
| Barium | U | | 0.000750 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:39 |
| Calcium | U | | 0.120 | 0.500 | mg/L | 1 | 29-Dec-2025 11:39 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:39 |
| Iron | U | | 0.0600 | 0.200 | mg/L | 1 | 29-Dec-2025 11:39 |
| **Lead** | **0.000609** | J | **0.000470** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:39 |
| Magnesium | U | | 0.0408 | 0.200 | mg/L | 1 | 29-Dec-2025 11:39 |
| Manganese | U | | 0.00190 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:39 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:39 |
| Potassium | U | | 0.0869 | 0.500 | mg/L | 1 | 29-Dec-2025 11:39 |
| Sodium | U | | 0.130 | 0.500 | mg/L | 1 | 29-Dec-2025 11:39 |
| Strontium | U | | 0.000300 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:39 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:39 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 29-Dec-2025 11:39 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:14 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **60.0** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| Alkalinity, Bicarbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 20:36 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 20:36 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **5.42** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 20:36 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 20:36 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 13:20 |
| Chloride | U | | 0.200 | 0.500 | mg/L | 1 | 22-Dec-2025 13:20 |
| **Sulfate** | **0.305** | J | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 13:20 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 15-Dec-2025 15:40

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-18
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 13:50 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 13:50 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 13:50 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 13:50 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 13:50 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 13:50 |
| *Surr: 1,2-Dichloroethane-d4* | *89.8* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 13:50* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 13:50* |
| *Surr: Dibromofluoromethane* | *94.7* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 13:50* |
| *Surr: Toluene-d8* | *95.6* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 13:50* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 29-Dec-2025 12:23 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 29-Dec-2025 12:23 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 29-Dec-2025 12:23 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *98.4* | | | *70-130* | *%REC* | *1* | *29-Dec-2025 12:23* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *107* | | | *70-130* | *%REC* | *1* | *29-Dec-2025 12:23* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:49 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:49 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:49 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:49 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:49 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:49 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 21:49 |
| *Surr: 1-Chlorooctadecane* | *80.5* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 21:49* |
| *Surr: 2-Bromonaphthalene* | *105* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 21:49* |
| *Surr: 2-Fluorobiphenyl* | *102* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 21:49* |
| *Surr: o-Terphenyl* | *91.4* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 21:49* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 15-Dec-2025 15:40

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-18
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| **Arsenic** | **0.00751** | | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| **Barium** | **0.269** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| **Calcium** | **20.4** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:41 |
| **Iron** | **0.269** | | **0.0600** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:41 |
| **Magnesium** | **9.82** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| **Manganese** | **0.0563** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:41 |
| **Potassium** | **1.97** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| **Sodium** | **95.2** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| **Strontium** | **0.282** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:41 |
| **Zinc** | **0.00327** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 29-Dec-2025 11:41 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:16 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **318** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **257** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 20:42 |
| **Alkalinity, Carbonate (As CaCO3)** | **13.0** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 20:42 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **8.51** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 20:42 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 20:42 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 13:25 |
| **Chloride** | **36.8** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 13:25 |
| Sulfate | U | | 0.200 | 0.500 | mg/L | 1 | 22-Dec-2025 13:25 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-580
Collection Date: 16-Dec-2025 07:45

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-19
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 14:12 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 14:12 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 14:12 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 14:12 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 14:12 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 14:12 |
| *Surr: 1,2-Dichloroethane-d4* | *90.0* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 14:12* |
| *Surr: 4-Bromofluorobenzene* | *107* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 14:12* |
| *Surr: Dibromofluoromethane* | *93.9* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 14:12* |
| *Surr: Toluene-d8* | *97.9* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 14:12* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 29-Dec-2025 13:02 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 29-Dec-2025 13:02 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 29-Dec-2025 13:02 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *90.0* | | | *70-130* | *%REC* | *1* | *29-Dec-2025 13:02* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *97.2* | | | *70-130* | *%REC* | *1* | *29-Dec-2025 13:02* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:17 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:17 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:17 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:17 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:17 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:17 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:17 |
| *Surr: 1-Chlorooctadecane* | *49.7* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 22:17* |
| *Surr: 2-Bromonaphthalene* | *107* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 22:17* |
| *Surr: 2-Fluorobiphenyl* | *103* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 22:17* |
| *Surr: o-Terphenyl* | *78.8* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 22:17* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-580
Collection Date: 16-Dec-2025 07:45

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-19
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| **Arsenic** | **0.000551** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **Barium** | **0.200** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **Calcium** | **22.5** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:42 |
| **Iron** | **4.83** | | **0.0600** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **Lead** | **0.424** | | **0.000470** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **Magnesium** | **7.23** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **Manganese** | **0.378** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **Nickel** | **0.0197** | | **0.00130** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **Potassium** | **2.40** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **Sodium** | **25.0** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **Strontium** | **0.214** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:42 |
| **Zinc** | **1.05** | | **0.00300** | **0.0100** | **mg/L** | 1 | 29-Dec-2025 11:42 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:18 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| **Hydrogen Sulfide** | **1.06** | | **0.500** | **1.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **174** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **112** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 20:48 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 20:48 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| **Sulfide** | **1.00** | J | **0.920** | **5.00** | **mg/L** | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.62** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 20:48 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 20:48 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 13:31 |
| **Chloride** | **27.0** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 13:31 |
| **Sulfate** | **3.59** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 13:31 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 17-Dec-2025 11:55

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-20
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 14:35 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 14:35 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 14:35 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 14:35 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 14:35 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 14:35 |
| *Surr: 1,2-Dichloroethane-d4* | *89.3* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 14:35* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 14:35* |
| *Surr: Dibromofluoromethane* | *94.4* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 14:35* |
| *Surr: Toluene-d8* | *97.3* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 14:35* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 29-Dec-2025 16:12 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 29-Dec-2025 16:12 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 29-Dec-2025 16:12 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *96.0* | | | *70-130* | *%REC* | *1* | *29-Dec-2025 16:12* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *89.6* | | | *70-130* | *%REC* | *1* | *29-Dec-2025 16:12* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:46 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:46 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:46 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:46 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:46 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:46 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 22:46 |
| *Surr: 1-Chlorooctadecane* | *76.7* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 22:46* |
| *Surr: 2-Bromonaphthalene* | *90.2* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 22:46* |
| *Surr: 2-Fluorobiphenyl* | *105* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 22:46* |
| *Surr: o-Terphenyl* | *87.5* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 22:46* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 17-Dec-2025 11:55

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-20
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| **Arsenic** | **0.000588** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| **Barium** | **0.192** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| **Calcium** | **23.5** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:44 |
| **Iron** | **0.687** | | **0.0600** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:44 |
| **Magnesium** | **7.20** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| **Manganese** | **0.298** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| **Nickel** | **0.00199** | J | **0.00130** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| **Potassium** | **2.42** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| **Sodium** | **25.8** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| **Strontium** | **0.224** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:44 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:44 |
| Zinc | U | | 0.00300 | 0.0100 | mg/L | 1 | 29-Dec-2025 11:44 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:20 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **178** | | **3.00** | **10.0** | **mg/L** | 1 | 22-Dec-2025 08:35 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **119** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 21:27 |
| Alkalinity, Carbonate (As CaCO3) | U | | 1.20 | 5.00 | mg/L | 1 | 20-Dec-2025 21:27 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **7.64** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 21:27 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 21:27 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| Bromide | U | | 0.0300 | 0.100 | mg/L | 1 | 22-Dec-2025 13:37 |
| **Chloride** | **24.4** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 13:37 |
| **Sulfate** | **3.60** | | **0.200** | **0.500** | **mg/L** | 1 | 22-Dec-2025 13:37 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP-01
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-21
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 05:04 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 05:04 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 05:04 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 05:04 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 05:04 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 05:04 |
| *Surr: 1,2-Dichloroethane-d4* | *102* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 05:04* |
| *Surr: 4-Bromofluorobenzene* | *105* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 05:04* |
| *Surr: Dibromofluoromethane* | *94.9* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 05:04* |
| *Surr: Toluene-d8* | *97.4* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 05:04* |
| **MASSACHUSETTS VPH, FEB 2018, REV 2.1** | | **Method:MA VPH** | | | | | Analyst: LC |
| Aliphatics >C6 - C8 | | U | 0.00180 | 0.00500 | mg/L | 1 | 29-Dec-2025 16:51 |
| Aliphatics >C8 - C10 | | U | 0.000400 | 0.00500 | mg/L | 1 | 29-Dec-2025 16:51 |
| Aromatics >C8 - C10 | | U | 0.000600 | 0.0200 | mg/L | 1 | 29-Dec-2025 16:51 |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *95.6* | | | *70-130* | *%REC* | *1* | *29-Dec-2025 16:51* |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *103* | | | *70-130* | *%REC* | *1* | *29-Dec-2025 16:51* |
| **MASSACHUSETTS EPH R2.1, DEC 2019** | | **Method:MA EPH** | | | Prep:SW3510 / 22-Dec-2025 | | Analyst: SAM |
| Aliphatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 15:33 |
| Aliphatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 15:33 |
| Aliphatics >C16 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 15:33 |
| Aromatics >C10 - C12 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 15:33 |
| Aromatics >C12 - C16 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 15:33 |
| Aromatics >C16 - C21 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 15:33 |
| Aromatics >C21 - C35 | | U | 0.0250 | 0.100 | mg/L | 1 | 24-Dec-2025 15:33 |
| *Surr: 1-Chlorooctadecane* | *78.3* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 15:33* |
| *Surr: 2-Bromonaphthalene* | *104* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 15:33* |
| *Surr: 2-Fluorobiphenyl* | *102* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 15:33* |
| *Surr: o-Terphenyl* | *99.9* | | | *40-140* | *%REC* | *1* | *24-Dec-2025 15:33* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP-01
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-21
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **ICP-MS METALS BY SW6020A** | | **Method:SW6020A** | | | Prep:SW3010A / 24-Dec-2025 | | Analyst: JHD |
| **Arsenic** | **0.00105** | J | **0.000510** | **0.00200** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| **Barium** | **0.0707** | | **0.000750** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| **Calcium** | **4.66** | | **0.120** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| Chromium | U | | 0.00173 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:46 |
| **Iron** | **1.15** | | **0.0600** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| Lead | U | | 0.000470 | 0.00200 | mg/L | 1 | 29-Dec-2025 11:46 |
| **Magnesium** | **0.615** | | **0.0408** | **0.200** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| **Manganese** | **0.0253** | | **0.00190** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| Nickel | U | | 0.00130 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:46 |
| **Potassium** | **70.1** | | **0.0869** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| **Sodium** | **74.1** | | **0.130** | **0.500** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| **Strontium** | **0.677** | | **0.000300** | **0.00500** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| Vanadium | U | | 0.000600 | 0.00500 | mg/L | 1 | 29-Dec-2025 11:46 |
| **Zinc** | **0.00641** | J | **0.00300** | **0.0100** | **mg/L** | 1 | 29-Dec-2025 11:46 |
| **MERCURY BY SW7470A** | | **Method:SW7470A** | | | Prep:SW7470A / 30-Dec-2025 | | Analyst: JS |
| Mercury | U | | 0.0000300 | 0.000200 | mg/L | 1 | 30-Dec-2025 15:30 |
| **HYDROGEN SULFIDE BY E376.1** | | **Method:E376.1** | | | | | Analyst: CD |
| Hydrogen Sulfide | U | | 0.500 | 1.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **TOTAL DISSOLVED SOLIDS BY SM2540C** | | **Method:M2540C** | | | | | Analyst: MC |
| **Total Dissolved Solids (Residue, Filterable)** | **268** | | **3.00** | **10.0** | **mg/L** | 1 | 23-Dec-2025 08:19 |
| **ALKALINITY BY SM2320B** | | **Method:SM2320B** | | | | | Analyst: OZ |
| **Alkalinity, Bicarbonate (As CaCO3)** | **10.2** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 21:32 |
| **Alkalinity, Carbonate (As CaCO3)** | **207** | | **1.20** | **5.00** | **mg/L** | 1 | 20-Dec-2025 21:32 |
| **SULFIDE BY SM4500 S2-F** | | **Method:SM4500 S2-F** | | | | | Analyst: CD |
| Sulfide | U | | 0.920 | 5.00 | mg/L | 1 | 22-Dec-2025 11:00 |
| **PH BY SM4500H+ B** | | **Method:SM4500H+ B** | | | | | Analyst: OZ |
| **pH** | **10.6** | H | **0.100** | **1.00** | **pH Units** | 1 | 20-Dec-2025 21:32 |
| **Temp Deg C @pH** | **22.2** | H | **0** | **0** | **°C** | 1 | 20-Dec-2025 21:32 |
| **ANIONS BY SW9056A** | | **Method:SW9056** | | | | | Analyst: TH |
| **Bromide** | **0.0808** | J | **0.0300** | **0.100** | **mg/L** | 1 | 23-Dec-2025 12:47 |
| **Chloride** | **36.0** | | **0.200** | **0.500** | **mg/L** | 1 | 23-Dec-2025 12:47 |
| **Sulfate** | **1.73** | | **0.200** | **0.500** | **mg/L** | 1 | 23-Dec-2025 12:47 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-650
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-22
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 08:35 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:35 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 08:35 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:35 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:35 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 08:35 |
| *Surr: 1,2-Dichloroethane-d4* | *93.6* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 08:35* |
| *Surr: 4-Bromofluorobenzene* | *109* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 08:35* |
| *Surr: Dibromofluoromethane* | *98.3* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 08:35* |
| *Surr: Toluene-d8* | *91.8* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 08:35* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-597
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-23
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 08:56 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:56 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 08:56 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:56 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:56 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 08:56 |
| *Surr: 1,2-Dichloroethane-d4* | *93.7* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 08:56* |
| *Surr: 4-Bromofluorobenzene* | *109* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 08:56* |
| *Surr: Dibromofluoromethane* | *97.8* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 08:56* |
| *Surr: Toluene-d8* | *90.1* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 08:56* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-699
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-24
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 09:17 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:17 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 09:17 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:17 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:17 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 09:17 |
| *Surr: 1,2-Dichloroethane-d4* | *94.9* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 09:17* |
| *Surr: 4-Bromofluorobenzene* | *96.5* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 09:17* |
| *Surr: Dibromofluoromethane* | *97.9* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 09:17* |
| *Surr: Toluene-d8* | *106* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 09:17* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-596
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-25
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | | **Method:SW8260** | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 09:38 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:38 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 09:38 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:38 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:38 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 09:38 |
| *Surr: 1,2-Dichloroethane-d4* | *97.0* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 09:38* |
| *Surr: 4-Bromofluorobenzene* | *99.1* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 09:38* |
| *Surr: Dibromofluoromethane* | *97.7* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 09:38* |
| *Surr: Toluene-d8* | *102* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 09:38* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-585
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-26
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | **Method:SW8260** | | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 09:59 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:59 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 09:59 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:59 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 09:59 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 09:59 |
| *Surr: 1,2-Dichloroethane-d4* | *97.8* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 09:59* |
| *Surr: 4-Bromofluorobenzene* | *97.3* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 09:59* |
| *Surr: Dibromofluoromethane* | *98.9* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 09:59* |
| *Surr: Toluene-d8* | *96.3* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 09:59* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-767
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-27
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | **Method:SW8260** | | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 10:19 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:19 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 10:19 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:19 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:19 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 10:19 |
| *Surr: 1,2-Dichloroethane-d4* | *104* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 10:19* |
| *Surr: 4-Bromofluorobenzene* | *106* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 10:19* |
| *Surr: Dibromofluoromethane* | *99.4* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 10:19* |
| *Surr: Toluene-d8* | *97.4* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 10:19* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-595
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-28
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | **Method:SW8260** | | | | | | Analyst: LA |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 10:40 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:40 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 10:40 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:40 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 10:40 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 10:40 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 10:40* |
| *Surr: 4-Bromofluorobenzene* | *102* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 10:40* |
| *Surr: Dibromofluoromethane* | *98.2* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 10:40* |
| *Surr: Toluene-d8* | *102* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 10:40* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-103025-589
Collection Date: 18-Dec-2025 00:00

**ANALYTICAL REPORT**
WorkOrder:HS25120866
Lab ID:HS25120866-29
Matrix:Water

| ANALYSES | RESULT | QUAL | MDL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|---|---|---|---|---|---|---|
| **LOW LEVEL VOLATILES BY SW8260C** | **Method:SW8260** | | | | | | Analyst: DP |
| Benzene | | U | 0.00028 | 0.0010 | mg/L | 1 | 20-Dec-2025 08:03 |
| Ethylbenzene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:03 |
| m,p-Xylene | | U | 0.00061 | 0.0040 | mg/L | 1 | 20-Dec-2025 08:03 |
| o-Xylene | | U | 0.00031 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:03 |
| Toluene | | U | 0.00033 | 0.0020 | mg/L | 1 | 20-Dec-2025 08:03 |
| Xylenes, Total | | U | 0.00092 | 0.0060 | mg/L | 1 | 20-Dec-2025 08:03 |
| *Surr: 1,2-Dichloroethane-d4* | *102* | | | *70-126* | *%REC* | *1* | *20-Dec-2025 08:03* |
| *Surr: 4-Bromofluorobenzene* | *103* | | | *77-113* | *%REC* | *1* | *20-Dec-2025 08:03* |
| *Surr: Dibromofluoromethane* | *101* | | | *77-123* | *%REC* | *1* | *20-Dec-2025 08:03* |
| *Surr: Toluene-d8* | *105* | | | *82-127* | *%REC* | *1* | *20-Dec-2025 08:03* |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**Batch ID:** 236899 **Start Date:** 22 Dec 2025 10:55 **End Date:** 22 Dec 2025 10:55
**Method:** MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25120866-01 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-02 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-03 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-04 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-05 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-06 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-07 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-08 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-09 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-10 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-11 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-12 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-13 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-14 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-15 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-16 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-17 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-18 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-19 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |
| HS25120866-20 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |

**Batch ID:** 236902 **Start Date:** 22 Dec 2025 12:11 **End Date:** 22 Dec 2025 12:11
**Method:** MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25120866-21 | 1 | 1000 (mL) | 2 (mL) | 0.002 | 1-liter amber glass, HCl to pH <2 |

**Batch ID:** 237012 **Start Date:** 24 Dec 2025 11:00 **End Date:** 24 Dec 2025 11:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25120866-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Weight / Prep Log**

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**Batch ID:** 237013 **Start Date:** 24 Dec 2025 11:00 **End Date:** 24 Dec 2025 11:00
**Method:** WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25120866-12 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-13 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-14 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-15 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-16 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-17 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-18 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-19 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-20 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-21 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 237100 **Start Date:** 30 Dec 2025 09:00 **End Date:** 30 Dec 2025 09:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25120866-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-12 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-13 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-14 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-15 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-16 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-17 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-18 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-19 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS25120866-20 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

**Batch ID:** 237101 **Start Date:** 30 Dec 2025 09:00 **End Date:** 30 Dec 2025 09:00
**Method:** MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---|---|---|---|---|---|
| HS25120866-21 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**DATES REPORT**

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 236899 ( 0 ) | **Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019 | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | 22 Dec 2025 10:55 | 27 Dec 2025 15:50 | 1 |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | 22 Dec 2025 10:55 | 27 Dec 2025 15:50 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | 22 Dec 2025 10:55 | 27 Dec 2025 16:18 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | 22 Dec 2025 10:55 | 27 Dec 2025 16:18 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | 22 Dec 2025 10:55 | 27 Dec 2025 16:47 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | 22 Dec 2025 10:55 | 27 Dec 2025 16:47 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | 22 Dec 2025 10:55 | 27 Dec 2025 17:16 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | 22 Dec 2025 10:55 | 27 Dec 2025 17:16 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | 22 Dec 2025 10:55 | 27 Dec 2025 17:45 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | 22 Dec 2025 10:55 | 27 Dec 2025 17:45 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | 22 Dec 2025 10:55 | 28 Dec 2025 11:02 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | 22 Dec 2025 10:55 | 28 Dec 2025 11:02 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | 22 Dec 2025 10:55 | 28 Dec 2025 11:31 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | 22 Dec 2025 10:55 | 28 Dec 2025 11:31 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | 22 Dec 2025 10:55 | 28 Dec 2025 12:00 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | 22 Dec 2025 10:55 | 28 Dec 2025 12:00 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | 22 Dec 2025 10:55 | 28 Dec 2025 12:29 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | 22 Dec 2025 10:55 | 28 Dec 2025 12:29 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | 22 Dec 2025 10:55 | 27 Dec 2025 14:23 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | 22 Dec 2025 10:55 | 27 Dec 2025 14:23 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | 22 Dec 2025 10:55 | 28 Dec 2025 12:58 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | 22 Dec 2025 10:55 | 28 Dec 2025 12:58 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | 22 Dec 2025 10:55 | 28 Dec 2025 13:27 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | 22 Dec 2025 10:55 | 28 Dec 2025 13:27 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | 22 Dec 2025 10:55 | 28 Dec 2025 13:56 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | 22 Dec 2025 10:55 | 28 Dec 2025 13:56 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | 22 Dec 2025 10:55 | 28 Dec 2025 14:24 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | 22 Dec 2025 10:55 | 28 Dec 2025 14:24 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | 22 Dec 2025 10:55 | 24 Dec 2025 20:22 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | 22 Dec 2025 10:55 | 24 Dec 2025 20:22 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | 22 Dec 2025 10:55 | 24 Dec 2025 20:51 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | 22 Dec 2025 10:55 | 24 Dec 2025 20:51 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | 22 Dec 2025 10:55 | 24 Dec 2025 21:20 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | 22 Dec 2025 10:55 | 24 Dec 2025 21:20 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | 22 Dec 2025 10:55 | 24 Dec 2025 21:49 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | 22 Dec 2025 10:55 | 24 Dec 2025 21:49 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | 22 Dec 2025 10:55 | 24 Dec 2025 22:17 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | 22 Dec 2025 10:55 | 24 Dec 2025 22:17 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | 22 Dec 2025 10:55 | 24 Dec 2025 22:46 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | 22 Dec 2025 10:55 | 24 Dec 2025 22:46 | 1 |
| **Batch ID:** 236902 ( 0 ) | **Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019 | | | | **Matrix:** Water | |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | 22 Dec 2025 12:11 | 24 Dec 2025 15:33 | 1 |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | 22 Dec 2025 12:11 | 24 Dec 2025 15:33 | 1 |
| **Batch ID:** 237012 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:28 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | 24 Dec 2025 11:00 | 24 Dec 2025 17:02 | 20 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:30 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | 24 Dec 2025 11:00 | 24 Dec 2025 17:03 | 50 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:31 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:33 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:35 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:37 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:39 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | 24 Dec 2025 11:00 | 24 Dec 2025 17:05 | 20 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:40 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:42 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | 24 Dec 2025 11:00 | 24 Dec 2025 15:46 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | 24 Dec 2025 11:00 | 24 Dec 2025 16:51 | 1 |
| **Batch ID:** 237013 ( 0 ) | **Test Name :** ICP-MS METALS BY SW6020A | | | | **Matrix:** Water | |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | 24 Dec 2025 11:00 | 29 Dec 2025 14:47 | 20 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:18 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:26 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:28 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:35 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:37 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:39 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:41 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:42 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:44 | 1 |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | 24 Dec 2025 11:00 | 29 Dec 2025 11:46 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** 237100 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:33 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:35 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:36 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:38 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:40 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:41 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:43 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:45 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:52 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | 30 Dec 2025 09:00 | 30 Dec 2025 14:54 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:01 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:02 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:04 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:06 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:08 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:09 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:14 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:16 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:18 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:20 | 1 |
| **Batch ID:** 237101 ( 0 ) | **Test Name :** MERCURY BY SW7470A | | | | **Matrix:** Water | |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | 30 Dec 2025 09:00 | 30 Dec 2025 15:30 | 1 |
| **Batch ID:** R528639 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | | 20 Dec 2025 05:04 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R528652 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 20 Dec 2025 09:39 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 20 Dec 2025 10:02 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | | 20 Dec 2025 10:24 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | | 20 Dec 2025 10:47 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | | 20 Dec 2025 08:07 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | | 20 Dec 2025 08:30 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 20 Dec 2025 11:10 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | | 20 Dec 2025 11:33 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | | 20 Dec 2025 14:58 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | | 20 Dec 2025 11:56 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | | 20 Dec 2025 12:18 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | | 20 Dec 2025 12:41 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | | 20 Dec 2025 13:04 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | | 20 Dec 2025 13:27 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | | 20 Dec 2025 08:53 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | | 20 Dec 2025 09:16 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | | 20 Dec 2025 13:50 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | | 20 Dec 2025 14:12 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | | 20 Dec 2025 14:35 | 1 |
| **Batch ID:** R528667 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25120866-22 | CG-103025-650 | 18 Dec 2025 00:00 | | | 20 Dec 2025 08:35 | 1 |
| HS25120866-23 | CG-103025-597 | 18 Dec 2025 00:00 | | | 20 Dec 2025 08:56 | 1 |
| HS25120866-24 | CG-103025-699 | 18 Dec 2025 00:00 | | | 20 Dec 2025 09:17 | 1 |
| HS25120866-25 | CG-103025-596 | 18 Dec 2025 00:00 | | | 20 Dec 2025 09:38 | 1 |
| HS25120866-26 | CG-103025-585 | 18 Dec 2025 00:00 | | | 20 Dec 2025 09:59 | 1 |
| HS25120866-27 | CG-061125-767 | 18 Dec 2025 00:00 | | | 20 Dec 2025 10:19 | 1 |
| HS25120866-28 | CG-103025-595 | 18 Dec 2025 00:00 | | | 20 Dec 2025 10:40 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R528705 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** Water | |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | | 22 Dec 2025 11:00 | 1 |
| **Batch ID:** R528707 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** Water | |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | | 22 Dec 2025 11:00 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R528713 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | | 20 Dec 2025 18:41 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 20 Dec 2025 18:48 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 20 Dec 2025 18:53 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | | 20 Dec 2025 18:59 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | | 20 Dec 2025 19:04 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | | 20 Dec 2025 19:09 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | | 20 Dec 2025 19:26 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 20 Dec 2025 19:31 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | | 20 Dec 2025 19:37 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | | 20 Dec 2025 19:41 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | | 20 Dec 2025 19:52 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | | 20 Dec 2025 19:58 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | | 20 Dec 2025 20:04 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | | 20 Dec 2025 20:09 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | | 20 Dec 2025 20:15 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | | 20 Dec 2025 20:32 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | | 20 Dec 2025 20:36 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | | 20 Dec 2025 20:42 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | | 20 Dec 2025 20:48 | 1 |
| **Batch ID:** R528714 ( 0 ) | **Test Name :** ALKALINITY BY SM2320B | | | | **Matrix:** Water | |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | | 20 Dec 2025 21:27 | 1 |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | | 20 Dec 2025 21:32 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R528715 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | | 20 Dec 2025 18:41 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 20 Dec 2025 18:48 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 20 Dec 2025 18:53 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | | 20 Dec 2025 18:59 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | | 20 Dec 2025 19:04 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | | 20 Dec 2025 19:09 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | | 20 Dec 2025 19:26 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 20 Dec 2025 19:31 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | | 20 Dec 2025 19:37 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | | 20 Dec 2025 19:41 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | | 20 Dec 2025 19:52 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | | 20 Dec 2025 19:58 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | | 20 Dec 2025 20:04 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | | 20 Dec 2025 20:09 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | | 20 Dec 2025 20:15 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | | 20 Dec 2025 20:32 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | | 20 Dec 2025 20:36 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | | 20 Dec 2025 20:42 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | | 20 Dec 2025 20:48 | 1 |
| **Batch ID:** R528716 ( 0 ) | **Test Name :** PH BY SM4500H+ B | | | | **Matrix:** Water | |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | | 20 Dec 2025 21:27 | 1 |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | | 20 Dec 2025 21:32 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R528724 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | | 22 Dec 2025 08:35 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | | 22 Dec 2025 08:35 | 1 |
| **Batch ID:** R528728 ( 0 ) | **Test Name :** LOW LEVEL VOLATILES BY SW8260C | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | | 20 Dec 2025 07:41 | 1 |
| HS25120866-29 | CG-103025-589 | 18 Dec 2025 00:00 | | | 20 Dec 2025 08:03 | 1 |
| **Batch ID:** R528777 ( 0 ) | **Test Name :** SULFIDE BY SM4500 S2-F | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | | 22 Dec 2025 11:00 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R528778 ( 0 ) | **Test Name :** HYDROGEN SULFIDE BY E376.1 | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | | 22 Dec 2025 11:00 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | | 22 Dec 2025 11:00 | 1 |
| **Batch ID:** R528798 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | | 22 Dec 2025 10:48 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 22 Dec 2025 13:43 | 20 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 22 Dec 2025 10:54 | 2 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 22 Dec 2025 13:49 | 20 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 22 Dec 2025 11:00 | 2 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | | 22 Dec 2025 11:06 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | | 22 Dec 2025 11:11 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | | 22 Dec 2025 11:17 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | | 22 Dec 2025 11:23 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 22 Dec 2025 13:54 | 5 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 22 Dec 2025 11:29 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | | 22 Dec 2025 11:58 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | | 22 Dec 2025 12:04 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | | 22 Dec 2025 12:21 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | | 22 Dec 2025 12:27 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | | 22 Dec 2025 12:33 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | | 22 Dec 2025 12:39 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | | 22 Dec 2025 12:45 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | | 22 Dec 2025 12:50 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | | 22 Dec 2025 13:20 | 1 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | | 22 Dec 2025 13:25 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | | 22 Dec 2025 13:31 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | | 22 Dec 2025 13:37 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R528820 ( 0 ) | **Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C | | | | **Matrix:** Water | |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | | 23 Dec 2025 08:19 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 23 Dec 2025 08:19 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | | 23 Dec 2025 08:19 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | | 23 Dec 2025 08:19 | 1 |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | | 23 Dec 2025 08:19 | 1 |
| **Batch ID:** R528861 ( 0 ) | **Test Name :** ANIONS BY SW9056A | | | | **Matrix:** Water | |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | | 23 Dec 2025 12:47 | 1 |
| **Batch ID:** R528954 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | | 24 Dec 2025 17:41 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 24 Dec 2025 19:37 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | | 24 Dec 2025 20:54 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | | 24 Dec 2025 21:33 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | | 24 Dec 2025 22:12 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | | 24 Dec 2025 13:49 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 24 Dec 2025 22:51 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | | 24 Dec 2025 23:29 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | | 25 Dec 2025 00:08 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | | 25 Dec 2025 03:22 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | | 25 Dec 2025 04:01 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | | 25 Dec 2025 04:39 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | | 25 Dec 2025 05:18 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | | 25 Dec 2025 05:57 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | | 24 Dec 2025 14:27 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | | 24 Dec 2025 15:06 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

## DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|---|---|---|---|---|---|---|
| **Batch ID:** R528955 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25120866-01 | FB-121725 | 17 Dec 2025 14:00 | | | 24 Dec 2025 17:41 | 1 |
| HS25120866-02 | MW-3-700 | 17 Dec 2025 14:15 | | | 24 Dec 2025 19:37 | 1 |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 24 Dec 2025 20:16 | 1 |
| HS25120866-04 | 019-1603 | 17 Dec 2025 11:00 | | | 24 Dec 2025 20:54 | 1 |
| HS25120866-05 | 019-1055 | 17 Dec 2025 11:25 | | | 24 Dec 2025 21:33 | 1 |
| HS25120866-06 | GW-Rinsate | 17 Dec 2025 15:45 | | | 24 Dec 2025 22:12 | 1 |
| HS25120866-07 | FB-121825 | 18 Dec 2025 11:00 | | | 24 Dec 2025 13:49 | 1 |
| HS25120866-08 | MW-2-700 | 18 Dec 2025 09:35 | | | 24 Dec 2025 22:51 | 1 |
| HS25120866-09 | MW-2-200 | 18 Dec 2025 11:30 | | | 24 Dec 2025 23:29 | 1 |
| HS25120866-10 | MW-2-500 | 18 Dec 2025 16:00 | | | 25 Dec 2025 00:08 | 1 |
| HS25120866-11 | MW-1-500 | 16 Dec 2025 11:00 | | | 25 Dec 2025 03:22 | 1 |
| HS25120866-12 | MW-1-700 | 16 Dec 2025 14:00 | | | 25 Dec 2025 04:01 | 1 |
| HS25120866-13 | MW-3-200 | 16 Dec 2025 16:25 | | | 25 Dec 2025 04:39 | 1 |
| HS25120866-14 | 019-582 | 16 Dec 2025 08:00 | | | 25 Dec 2025 05:18 | 1 |
| HS25120866-15 | Cottages | 16 Dec 2025 08:50 | | | 25 Dec 2025 05:57 | 1 |
| HS25120866-16 | FB-121625 | 16 Dec 2025 08:20 | | | 24 Dec 2025 14:27 | 1 |
| HS25120866-17 | FB-121525 | 16 Dec 2025 15:10 | | | 24 Dec 2025 15:06 | 1 |
| **Batch ID:** R529008 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25120866-03 | MW-3-500 | 17 Dec 2025 09:25 | | | 29 Dec 2025 17:30 | 5 |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | | 29 Dec 2025 12:23 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | | 29 Dec 2025 13:02 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | | 29 Dec 2025 16:12 | 1 |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | | 29 Dec 2025 16:51 | 1 |
| **Batch ID:** R529009 ( 0 ) | **Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1 | | | | **Matrix:** Water | |
| HS25120866-18 | MW-1-200 | 15 Dec 2025 15:40 | | | 29 Dec 2025 12:23 | 1 |
| HS25120866-19 | 019-580 | 16 Dec 2025 07:45 | | | 29 Dec 2025 13:02 | 1 |
| HS25120866-20 | 019-995 | 17 Dec 2025 11:55 | | | 29 Dec 2025 16:12 | 1 |
| HS25120866-21 | GW-DUP-01 | 18 Dec 2025 00:00 | | | 29 Dec 2025 16:51 | 1 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 236899 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MBLK** Sample ID: **MBLK-236899** Units: **mg/L** Analysis Date: **27-Dec-2025 13:26**
Client ID: Run ID: **FID23_529044** SeqNo: **9208199** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aliphatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aliphatics >C16 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 1-Chlorooctadecane* | *0.04375* | *0* | *0.04* | *0* | *109* | *40 - 140* | | | | |

**MBLK** Sample ID: **MBLK-236899** Units: **mg/L** Analysis Date: **27-Dec-2025 13:26**
Client ID: Run ID: **FID-22_529057** SeqNo: **9208508** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aromatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aromatics >C16 - C21 | U | 0.100 | | | | | | | | |
| Aromatics >C21 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 2-Bromonaphthalene* | *0.04243* | *0* | *0.04* | *0* | *106* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.04221* | *0* | *0.04* | *0* | *106* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.04313* | *0* | *0.04* | *0* | *108* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-236899** Units: **mg/L** Analysis Date: **27-Dec-2025 13:54**
Client ID: Run ID: **FID23_529044** SeqNo: **9208200** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04839 | 0.100 | 0.05 | 0 | 96.8 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.1053 | 0.100 | 0.1 | 0 | 105 | 40 - 140 | | | | |
| Aliphatics >C16 - C35 | 0.4678 | 0.100 | 0.4 | 0 | 117 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.04101* | *0* | *0.04* | *0* | *103* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 236899 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**LCS** Sample ID: **LCS-236899** Units: **mg/L** Analysis Date: **27-Dec-2025 13:54**
Client ID: Run ID: **FID-22_529057** SeqNo: **9208509** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04327 | 0.100 | 0.05 | 0 | 86.5 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.173 | 0.100 | 0.2 | 0 | 86.5 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.146 | 0.100 | 0.15 | 0 | 97.4 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.4108 | 0.100 | 0.45 | 0 | 91.3 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03284* | *0* | *0.04* | *0* | *82.1* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03174* | *0* | *0.04* | *0* | *79.4* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03656* | *0* | *0.04* | *0* | *91.4* | *40 - 140* | | | | |

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **27-Dec-2025 14:52**
Client ID: **MW-2-500** Run ID: **FID23_529044** SeqNo: **9208203** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.05286 | 0.100 | 0.05 | 0 | 106 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.1058 | 0.100 | 0.1 | 0 | 106 | 40 - 140 | | | | |
| Aliphatics >C16 - C35 | 0.4233 | 0.100 | 0.4 | 0 | 106 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.03047* | *0* | *0.04* | *0* | *76.2* | *40 - 140* | | | | |

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **27-Dec-2025 14:52**
Client ID: **MW-2-500** Run ID: **FID-22_529057** SeqNo: **9208512** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04835 | 0.100 | 0.05 | 0 | 96.7 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1772 | 0.100 | 0.2 | 0 | 88.6 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1389 | 0.100 | 0.15 | 0 | 92.6 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.3769 | 0.100 | 0.45 | 0 | 83.8 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03757* | *0* | *0.04* | *0* | *93.9* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03613* | *0* | *0.04* | *0* | *90.3* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03236* | *0* | *0.04* | *0* | *80.9* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 236899 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **27-Dec-2025 15:21**
Client ID: **MW-2-500** Run ID: **FID23_529044** SeqNo: **9208204** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04459 | 0.100 | 0.05 | 0 | 89.2 | 40 - 140 | 0.05286 | 0 | 50 | J |
| Aliphatics >C12 - C16 | 0.09143 | 0.100 | 0.1 | 0 | 91.4 | 40 - 140 | 0.1058 | 0 | 50 | J |
| Aliphatics >C16 - C35 | 0.3812 | 0.100 | 0.4 | 0 | 95.3 | 40 - 140 | 0.4233 | 10.5 | 50 | |
| *Surr: 1-Chlorooctadecane* | *0.02255* | *0* | *0.04* | *0* | *56.4* | *40 - 140* | *0.03047* | *29.9* | *50* | |

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **27-Dec-2025 15:21**
Client ID: **MW-2-500** Run ID: **FID-22_529057** SeqNo: **9208513** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04031 | 0.100 | 0.05 | 0 | 80.6 | 40 - 140 | 0.04835 | 0 | 50 | J |
| Aromatics >C12 - C16 | 0.1503 | 0.100 | 0.2 | 0 | 75.2 | 40 - 140 | 0.1772 | 16.4 | 50 | |
| Aromatics >C16 - C21 | 0.1233 | 0.100 | 0.15 | 0 | 82.2 | 40 - 140 | 0.1389 | 11.9 | 50 | |
| Aromatics >C21 - C35 | 0.332 | 0.100 | 0.45 | 0 | 73.8 | 40 - 140 | 0.3769 | 12.7 | 50 | |
| *Surr: 2-Bromonaphthalene* | *0.0375* | *0* | *0.04* | *0* | *93.7* | *40 - 140* | *0.03757* | *0.187* | *50* | |
| *Surr: 2-Fluorobiphenyl* | *0.03608* | *0* | *0.04* | *0* | *90.2* | *40 - 140* | *0.03613* | *0.155* | *50* | |
| *Surr: o-Terphenyl* | *0.02731* | *0* | *0.04* | *0* | *68.3* | *40 - 140* | *0.03236* | *16.9* | *50* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-07 | HS25120866-08 |
| HS25120866-09 | HS25120866-10 | HS25120866-11 | HS25120866-12 |
| HS25120866-13 | HS25120866-14 | HS25120866-15 | HS25120866-16 |
| HS25120866-17 | HS25120866-18 | HS25120866-19 | HS25120866-20 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 236902 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MBLK** Sample ID: **MBLK-236902** Units: **mg/L** Analysis Date: **24-Dec-2025 13:09**
Client ID: Run ID: **FID23_529039** SeqNo: **9208117** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aliphatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aliphatics >C16 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 1-Chlorooctadecane* | *0.01992* | *0* | *0.04* | *0* | *49.8* | *40 - 140* | | | | |

**MBLK** Sample ID: **MBLK-236902** Units: **mg/L** Analysis Date: **24-Dec-2025 13:09**
Client ID: Run ID: **FID-22_529056** SeqNo: **9208474** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | U | 0.100 | | | | | | | | |
| Aromatics >C12 - C16 | U | 0.100 | | | | | | | | |
| Aromatics >C16 - C21 | U | 0.100 | | | | | | | | |
| Aromatics >C21 - C35 | U | 0.100 | | | | | | | | |
| *Surr: 2-Bromonaphthalene* | *0.04198* | *0* | *0.04* | *0* | *105* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.04076* | *0* | *0.04* | *0* | *102* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.02944* | *0* | *0.04* | *0* | *73.6* | *40 - 140* | | | | |

**LCS** Sample ID: **LCS-236902** Units: **mg/L** Analysis Date: **24-Dec-2025 13:37**
Client ID: Run ID: **FID23_529039** SeqNo: **9208118** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.04504 | 0.100 | 0.05 | 0 | 90.1 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.09104 | 0.100 | 0.1 | 0 | 91.0 | 40 - 140 | | | | J |
| Aliphatics >C16 - C35 | 0.3758 | 0.100 | 0.4 | 0 | 94.0 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.02323* | *0* | *0.04* | *0* | *58.1* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 236902 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**LCS** Sample ID: **LCS-236902** Units: **mg/L** Analysis Date: **24-Dec-2025 13:37**
Client ID: Run ID: **FID-22_529056** SeqNo: **9208475** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.04841 | 0.100 | 0.05 | 0 | 96.8 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1833 | 0.100 | 0.2 | 0 | 91.6 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1529 | 0.100 | 0.15 | 0 | 102 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.4064 | 0.100 | 0.45 | 0 | 90.3 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.04191* | *0* | *0.04* | *0* | *105* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.04068* | *0* | *0.04* | *0* | *102* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.0355* | *0* | *0.04* | *0* | *88.7* | *40 - 140* | | | | |

**MS** Sample ID: **HS25120893-04MS** Units: **mg/L** Analysis Date: **24-Dec-2025 14:35**
Client ID: Run ID: **FID23_529039** SeqNo: **9208122** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.0517 | 0.100 | 0.05 | 0 | 103 | 40 - 140 | | | | J |
| Aliphatics >C12 - C16 | 0.1017 | 0.100 | 0.1 | 0 | 102 | 40 - 140 | | | | |
| Aliphatics >C16 - C35 | 0.3938 | 0.100 | 0.4 | 0 | 98.5 | 40 - 140 | | | | |
| *Surr: 1-Chlorooctadecane* | *0.03203* | *0* | *0.04* | *0* | *80.1* | *40 - 140* | | | | |

**MS** Sample ID: **HS25120893-04MS** Units: **mg/L** Analysis Date: **24-Dec-2025 14:35**
Client ID: Run ID: **FID-22_529056** SeqNo: **9208479** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.05199 | 0.100 | 0.05 | 0 | 104 | 40 - 140 | | | | J |
| Aromatics >C12 - C16 | 0.1936 | 0.100 | 0.2 | 0 | 96.8 | 40 - 140 | | | | |
| Aromatics >C16 - C21 | 0.1476 | 0.100 | 0.15 | 0 | 98.4 | 40 - 140 | | | | |
| Aromatics >C21 - C35 | 0.4067 | 0.100 | 0.45 | 0 | 90.4 | 40 - 140 | | | | |
| *Surr: 2-Bromonaphthalene* | *0.03929* | *0* | *0.04* | *0* | *98.2* | *40 - 140* | | | | |
| *Surr: 2-Fluorobiphenyl* | *0.03797* | *0* | *0.04* | *0* | *94.9* | *40 - 140* | | | | |
| *Surr: o-Terphenyl* | *0.03553* | *0* | *0.04* | *0* | *88.8* | *40 - 140* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 236902 ( 0 )** **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

**MSD** Sample ID: **HS25120893-04MSD** Units: **mg/L** Analysis Date: **24-Dec-2025 15:04**
Client ID: Run ID: **FID23_529039** SeqNo: **9208123** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C10 - C12 | 0.05188 | 0.100 | 0.05 | 0 | 104 | 40 - 140 | 0.0517 | 0 | 50 | J |
| Aliphatics >C12 - C16 | 0.1022 | 0.100 | 0.1 | 0 | 102 | 40 - 140 | 0.1017 | 0.53 | 50 | |
| Aliphatics >C16 - C35 | 0.3949 | 0.100 | 0.4 | 0 | 98.7 | 40 - 140 | 0.3938 | 0.267 | 50 | |
| *Surr: 1-Chlorooctadecane* | *0.0322* | *0* | *0.04* | *0* | *80.5* | *40 - 140* | *0.03203* | *0.529* | *50* | |

**MSD** Sample ID: **HS25120893-04MSD** Units: **mg/L** Analysis Date: **24-Dec-2025 15:04**
Client ID: Run ID: **FID-22_529056** SeqNo: **9208480** PrepDate: **22-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C10 - C12 | 0.05188 | 0.100 | 0.05 | 0 | 104 | 40 - 140 | 0.05199 | 0 | 50 | J |
| Aromatics >C12 - C16 | 0.1936 | 0.100 | 0.2 | 0 | 96.8 | 40 - 140 | 0.1936 | 0.0031 | 50 | |
| Aromatics >C16 - C21 | 0.148 | 0.100 | 0.15 | 0 | 98.7 | 40 - 140 | 0.1476 | 0.264 | 50 | |
| Aromatics >C21 - C35 | 0.4061 | 0.100 | 0.45 | 0 | 90.2 | 40 - 140 | 0.4067 | 0.161 | 50 | |
| *Surr: 2-Bromonaphthalene* | *0.03933* | *0* | *0.04* | *0* | *98.3* | *40 - 140* | *0.03929* | *0.102* | *50* | |
| *Surr: 2-Fluorobiphenyl* | *0.03793* | *0* | *0.04* | *0* | *94.8* | *40 - 140* | *0.03797* | *0.0949* | *50* | |
| *Surr: o-Terphenyl* | *0.03559* | *0* | *0.04* | *0* | *89.0* | *40 - 140* | *0.03553* | *0.18* | *50* | |

**The following samples were analyzed in this batch:** HS25120866-21



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** R528954 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251223** Units: **mg/L** Analysis Date: **24-Dec-2025 13:10**
Client ID: Run ID: **FID-14_528954** SeqNo: **9206191** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.194* | *0.0100* | *0.25* | *0* | *77.6* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251223** Units: **mg/L** Analysis Date: **24-Dec-2025 11:52**
Client ID: Run ID: **FID-14_528954** SeqNo: **9206197** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.021 | 0.00500 | 0.025 | 0 | 84.0 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.02 | 0.00500 | 0.025 | 0 | 80.0 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.247* | *0.0100* | *0.25* | *0* | *98.8* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251223** Units: **mg/L** Analysis Date: **24-Dec-2025 12:31**
Client ID: Run ID: **FID-14_528954** SeqNo: **9206198** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.024 | 0.00500 | 0.025 | 0 | 96.0 | 70 - 130 | 0.021 | 13.3 | 25 | |
| Aliphatics >C8 - C10 | 0.022 | 0.00500 | 0.025 | 0 | 88.0 | 70 - 130 | 0.02 | 9.52 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.228* | *0.0100* | *0.25* | *0* | *91.2* | *70 - 130* | *0.247* | *8* | *25* | |

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **25-Dec-2025 00:47**
Client ID: **MW-2-500** Run ID: **FID-14_528954** SeqNo: **9206212** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.024 | 0.00500 | 0.025 | 0 | 96.0 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.022 | 0.00500 | 0.025 | 0 | 88.0 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.2253* | *0.0100* | *0.25* | *0* | *90.1* | *70 - 130* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** R528954 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **25-Dec-2025 01:26**
Client ID: **MW-2-500** Run ID: **FID-14_528954** SeqNo: **9206210** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.0213 | 0.00500 | 0.025 | 0 | 85.2 | 70 - 130 | 0.024 | 11.9 | 25 | |
| Aliphatics >C8 - C10 | 0.0209 | 0.00500 | 0.025 | 0 | 83.6 | 70 - 130 | 0.022 | 5.13 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.217* | *0.0100* | *0.25* | *0* | *86.8* | *70 - 130* | *0.2253* | *3.75* | *25* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-04 | HS25120866-05 |
| HS25120866-06 | HS25120866-07 | HS25120866-08 | HS25120866-09 |
| HS25120866-10 | HS25120866-11 | HS25120866-12 | HS25120866-13 |
| HS25120866-14 | HS25120866-15 | HS25120866-16 | HS25120866-17 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** R528955 ( 0 ) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251223** Units: **mg/L** Analysis Date: **24-Dec-2025 13:10**
Client ID: Run ID: **FID-15_528955** SeqNo: **9206225** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.194* | *0.0100* | *0.25* | *0* | *77.6* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251223** Units: **mg/L** Analysis Date: **24-Dec-2025 11:52**
Client ID: Run ID: **FID-15_528955** SeqNo: **9206168** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0835 | 0.0200 | 0.1 | 0 | 83.5 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.227* | *0.0100* | *0.25* | *0* | *90.8* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251223** Units: **mg/L** Analysis Date: **24-Dec-2025 12:31**
Client ID: Run ID: **FID-15_528955** SeqNo: **9206169** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0803 | 0.0200 | 0.1 | 0 | 80.3 | 70 - 130 | 0.0835 | 3.91 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.228* | *0.0100* | *0.25* | *0* | *91.2* | *70 - 130* | *0.227* | *0.44* | *25* | |

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **25-Dec-2025 00:47**
Client ID: **MW-2-500** Run ID: **FID-15_528955** SeqNo: **9206183** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0803 | 0.0200 | 0.1 | 0 | 80.3 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.246* | *0.0100* | *0.25* | *0* | *98.4* | *70 - 130* | | | | |

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **25-Dec-2025 01:26**
Client ID: **MW-2-500** Run ID: **FID-15_528955** SeqNo: **9206181** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0795 | 0.0200 | 0.1 | 0 | 79.5 | 70 - 130 | 0.0803 | 1 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.1967* | *0.0100* | *0.25* | *0* | *78.7* | *70 - 130* | *0.246* | *22.3* | *25* | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528955 ( 0 )** **Instrument: FID-15** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-07 | HS25120866-08 |
| HS25120866-09 | HS25120866-10 | HS25120866-11 | HS25120866-12 |
| HS25120866-13 | HS25120866-14 | HS25120866-15 | HS25120866-16 |
| HS25120866-17 | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** R529008 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251229** Units: **mg/L** Analysis Date: **29-Dec-2025 11:05**
Client ID: Run ID: **FID-14_529008** SeqNo: **9207606** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | U | 0.00500 | | | | | | | | |
| Aliphatics >C8 - C10 | U | 0.00500 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.204* | *0.0100* | *0.25* | *0* | *81.6* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251229** Units: **mg/L** Analysis Date: **29-Dec-2025 09:47**
Client ID: Run ID: **FID-14_529008** SeqNo: **9207619** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.026 | 0.00500 | 0.025 | 0 | 104 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.029 | 0.00500 | 0.025 | 0 | 116 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.228* | *0.0100* | *0.25* | *0* | *91.2* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251229** Units: **mg/L** Analysis Date: **29-Dec-2025 10:26**
Client ID: Run ID: **FID-14_529008** SeqNo: **9207604** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.024 | 0.00500 | 0.025 | 0 | 96.0 | 70 - 130 | 0.026 | 8 | 25 | |
| Aliphatics >C8 - C10 | 0.029 | 0.00500 | 0.025 | 0 | 116 | 70 - 130 | 0.029 | 0 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.244* | *0.0100* | *0.25* | *0* | *97.6* | *70 - 130* | *0.228* | *6.78* | *25* | |

**MS** Sample ID: **HS25120893-04MS** Units: **mg/L** Analysis Date: **29-Dec-2025 21:23**
Client ID: Run ID: **FID-14_529008** SeqNo: **9207618** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.0185 | 0.00500 | 0.025 | 0 | 74.0 | 70 - 130 | | | | |
| Aliphatics >C8 - C10 | 0.0189 | 0.00500 | 0.025 | 0 | 75.6 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.229* | *0.0100* | *0.25* | *0* | *91.6* | *70 - 130* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** R529008 ( 0 ) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MSD** Sample ID: **HS25120893-04MSD** Units: **mg/L** Analysis Date: **29-Dec-2025 22:02**
Client ID: Run ID: **FID-14_529008** SeqNo: **9207603** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatics >C6 - C8 | 0.018 | 0.00500 | 0.025 | 0 | 72.0 | 70 - 130 | 0.0185 | 2.74 | 25 | |
| Aliphatics >C8 - C10 | 0.02 | 0.00500 | 0.025 | 0 | 80.0 | 70 - 130 | 0.0189 | 5.66 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aliphatic)* | *0.271* | *0.0100* | *0.25* | *0* | *108* | *70 - 130* | *0.229* | *16.8* | *25* | |

**The following samples were analyzed in this batch:** HS25120866-03 HS25120866-18 HS25120866-19 HS25120866-20 HS25120866-21



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** R529009 ( 0 ) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

**MBLK** Sample ID: **MBLK-251229** Units: **mg/L** Analysis Date: **29-Dec-2025 11:05**
Client ID: Run ID: **FID-15_529009** SeqNo: **9207626** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | U | 0.0200 | | | | | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.221* | *0.0100* | *0.25* | *0* | *88.4* | *70 - 130* | | | | |

**LCS** Sample ID: **LCS-251229** Units: **mg/L** Analysis Date: **29-Dec-2025 09:47**
Client ID: Run ID: **FID-15_529009** SeqNo: **9207639** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0973 | 0.0200 | 0.1 | 0 | 97.3 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.228* | *0.0100* | *0.25* | *0* | *91.2* | *70 - 130* | | | | |

**LCSD** Sample ID: **LCSD-251229** Units: **mg/L** Analysis Date: **29-Dec-2025 10:26**
Client ID: Run ID: **FID-15_529009** SeqNo: **9207624** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0955 | 0.0200 | 0.1 | 0 | 95.5 | 70 - 130 | 0.0973 | 1.87 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.226* | *0.0100* | *0.25* | *0* | *90.4* | *70 - 130* | *0.228* | *0.881* | *25* | |

**MS** Sample ID: **HS25120893-04MS** Units: **mg/L** Analysis Date: **29-Dec-2025 21:23**
Client ID: Run ID: **FID-15_529009** SeqNo: **9207638** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0952 | 0.0200 | 0.1 | 0 | 95.2 | 70 - 130 | | | | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.229* | *0.0100* | *0.25* | *0* | *91.6* | *70 - 130* | | | | |

**MSD** Sample ID: **HS25120893-04MSD** Units: **mg/L** Analysis Date: **29-Dec-2025 22:02**
Client ID: Run ID: **FID-15_529009** SeqNo: **9207623** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aromatics >C8 - C10 | 0.0909 | 0.0200 | 0.1 | 0 | 90.9 | 70 - 130 | 0.0952 | 4.62 | 25 | |
| *Surr: 2,5-Dibromotoluene (Aromatic)* | *0.2524* | *0.0100* | *0.25* | *0* | *101* | *70 - 130* | *0.229* | *9.72* | *25* | |

**The following samples were analyzed in this batch:** HS25120866-18 HS25120866-19 HS25120866-20 HS25120866-21



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237012 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-237012** Units: **mg/L** Analysis Date: **24-Dec-2025 15:39**
Client ID: Run ID: **ICPMS06_528888** SeqNo: **9205548** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | | |
| Barium | U | 0.00500 | | | | | | | | |
| Calcium | U | 0.500 | | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | | |
| Iron | U | 0.200 | | | | | | | | |
| Lead | U | 0.00200 | | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | | |
| Potassium | U | 0.500 | | | | | | | | |
| Sodium | U | 0.500 | | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | | |

**LCS** Sample ID: **LCS-237012** Units: **mg/L** Analysis Date: **24-Dec-2025 15:41**
Client ID: Run ID: **ICPMS06_528888** SeqNo: **9205549** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.04351 | 0.00200 | 0.05 | 0 | 87.0 | 80 - 120 | | | | |
| Barium | 0.0452 | 0.00500 | 0.05 | 0 | 90.4 | 80 - 120 | | | | |
| Calcium | 4.569 | 0.500 | 5 | 0 | 91.4 | 80 - 120 | | | | |
| Chromium | 0.04521 | 0.00500 | 0.05 | 0 | 90.4 | 80 - 120 | | | | |
| Iron | 4.675 | 0.200 | 5 | 0 | 93.5 | 80 - 120 | | | | |
| Lead | 0.04365 | 0.00200 | 0.05 | 0 | 87.3 | 80 - 120 | | | | |
| Magnesium | 4.766 | 0.200 | 5 | 0 | 95.3 | 80 - 120 | | | | |
| Manganese | 0.0456 | 0.00500 | 0.05 | 0 | 91.2 | 80 - 120 | | | | |
| Nickel | 0.04528 | 0.00500 | 0.05 | 0 | 90.6 | 80 - 120 | | | | |
| Potassium | 4.66 | 0.500 | 5 | 0 | 93.2 | 80 - 120 | | | | |
| Sodium | 4.723 | 0.500 | 5 | 0 | 94.5 | 80 - 120 | | | | |
| Strontium | 0.09709 | 0.00500 | 0.1 | 0 | 97.1 | 80 - 120 | | | | |
| Vanadium | 0.04502 | 0.00500 | 0.05 | 0 | 90.0 | 80 - 120 | | | | |
| Zinc | 0.04516 | 0.0100 | 0.05 | 0 | 90.3 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237012 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **24-Dec-2025 15:48**
Client ID: **MW-2-500** Run ID: **ICPMS06_528888** SeqNo: **9205553** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.04506 | 0.00200 | 0.05 | 0.000862 | 88.4 | 80 - 120 | | | | |
| Barium | 0.1235 | 0.00500 | 0.05 | 0.07654 | 93.9 | 80 - 120 | | | | |
| Calcium | 9.568 | 0.500 | 5 | 4.996 | 91.5 | 80 - 120 | | | | |
| Chromium | 0.04618 | 0.00500 | 0.05 | 0.000214 | 91.9 | 80 - 120 | | | | |
| Iron | 5.684 | 0.200 | 5 | 0.9958 | 93.8 | 80 - 120 | | | | |
| Lead | 0.04569 | 0.00200 | 0.05 | 0.00097 | 89.4 | 80 - 120 | | | | |
| Magnesium | 5.471 | 0.200 | 5 | 0.7188 | 95.0 | 80 - 120 | | | | |
| Manganese | 0.07363 | 0.00500 | 0.05 | 0.02776 | 91.8 | 80 - 120 | | | | |
| Nickel | 0.04559 | 0.00500 | 0.05 | 0.001081 | 89.0 | 80 - 120 | | | | |
| Potassium | 67.31 | 0.500 | 5 | 63.97 | 66.9 | 80 - 120 | | | | SO |
| Sodium | 73.54 | 0.500 | 5 | 68.86 | 93.6 | 80 - 120 | | | | O |
| Strontium | 0.7206 | 0.00500 | 0.1 | 0.6208 | 99.8 | 80 - 120 | | | | O |
| Vanadium | 0.04748 | 0.00500 | 0.05 | 0.000741 | 93.5 | 80 - 120 | | | | |
| Zinc | 0.05655 | 0.0100 | 0.05 | 0.005229 | 103 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **24-Dec-2025 15:50**
Client ID: **MW-2-500** Run ID: **ICPMS06_528888** SeqNo: **9205554** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.0459 | 0.00200 | 0.05 | 0.000862 | 90.1 | 80 - 120 | 0.04506 | 1.84 | 20 | |
| Barium | 0.1217 | 0.00500 | 0.05 | 0.07654 | 90.4 | 80 - 120 | 0.1235 | 1.42 | 20 | |
| Calcium | 9.741 | 0.500 | 5 | 4.996 | 94.9 | 80 - 120 | 9.568 | 1.79 | 20 | |
| Chromium | 0.04655 | 0.00500 | 0.05 | 0.000214 | 92.7 | 80 - 120 | 0.04618 | 0.796 | 20 | |
| Iron | 5.761 | 0.200 | 5 | 0.9958 | 95.3 | 80 - 120 | 5.684 | 1.35 | 20 | |
| Lead | 0.0452 | 0.00200 | 0.05 | 0.00097 | 88.5 | 80 - 120 | 0.04569 | 1.08 | 20 | |
| Magnesium | 5.468 | 0.200 | 5 | 0.7188 | 95.0 | 80 - 120 | 5.471 | 0.0411 | 20 | |
| Manganese | 0.07426 | 0.00500 | 0.05 | 0.02776 | 93.0 | 80 - 120 | 0.07363 | 0.853 | 20 | |
| Nickel | 0.04592 | 0.00500 | 0.05 | 0.001081 | 89.7 | 80 - 120 | 0.04559 | 0.717 | 20 | |
| Potassium | 67.61 | 0.500 | 5 | 63.97 | 72.8 | 80 - 120 | 67.31 | 0.44 | 20 | SO |
| Sodium | 72.32 | 0.500 | 5 | 68.86 | 69.3 | 80 - 120 | 73.54 | 1.66 | 20 | SO |
| Strontium | 0.7141 | 0.00500 | 0.1 | 0.6208 | 93.3 | 80 - 120 | 0.7206 | 0.902 | 20 | O |
| Vanadium | 0.04716 | 0.00500 | 0.05 | 0.000741 | 92.8 | 80 - 120 | 0.04748 | 0.687 | 20 | |
| Zinc | 0.05644 | 0.0100 | 0.05 | 0.005229 | 102 | 80 - 120 | 0.05655 | 0.189 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237012 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25120866-10PDS** Units: **mg/L** Analysis Date: **24-Dec-2025 15:51**
Client ID: **MW-2-500** Run ID: **ICPMS06_528888** SeqNo: **9205555** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.08912 | 0.00200 | 0.1 | 0.000862 | 88.3 | 75 - 125 | | | | |
| Barium | 0.1637 | 0.00500 | 0.1 | 0.07654 | 87.2 | 75 - 125 | | | | |
| Calcium | 14.28 | 0.500 | 10 | 4.996 | 92.8 | 75 - 125 | | | | |
| Chromium | 0.08949 | 0.00500 | 0.1 | 0.000214 | 89.3 | 75 - 125 | | | | |
| Iron | 10.25 | 0.200 | 10 | 0.9958 | 92.6 | 75 - 125 | | | | |
| Lead | 0.08815 | 0.00200 | 0.1 | 0.00097 | 87.2 | 75 - 125 | | | | |
| Magnesium | 10.14 | 0.200 | 10 | 0.7188 | 94.2 | 75 - 125 | | | | |
| Manganese | 0.1168 | 0.00500 | 0.1 | 0.02776 | 89.0 | 75 - 125 | | | | |
| Nickel | 0.08908 | 0.00500 | 0.1 | 0.001081 | 88.0 | 75 - 125 | | | | |
| Potassium | 71.11 | 0.500 | 10 | 63.97 | 71.4 | 75 - 125 | | | | SO |
| Sodium | 77.18 | 0.500 | 10 | 68.86 | 83.3 | 75 - 125 | | | | O |
| Strontium | 0.707 | 0.00500 | 0.1 | 0.6208 | 86.2 | 75 - 125 | | | | O |
| Vanadium | 0.09037 | 0.00500 | 0.1 | 0.000741 | 89.6 | 75 - 125 | | | | |
| Zinc | 0.09643 | 0.0100 | 0.1 | 0.005229 | 91.2 | 75 - 125 | | | | |

**SD** Sample ID: **HS25120866-10SD** Units: **mg/L** Analysis Date: **24-Dec-2025 15:42**
Client ID: **MW-2-500** Run ID: **ICPMS06_528888** SeqNo: **9205550** PrepDate: **24-Dec-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.0100 | | | | | 0.000862 | 0 | 10 | |
| Barium | 0.0777 | 0.0250 | | | | | 0.07654 | 1.52 | 10 | |
| Calcium | 5 | 2.50 | | | | | 4.996 | 0.0864 | 10 | |
| Chromium | U | 0.0250 | | | | | 0.000214 | 0 | 10 | |
| Iron | 1.044 | 1.00 | | | | | 0.9958 | 0 | 10 | |
| Lead | U | 0.0100 | | | | | 0.00097 | 0 | 10 | |
| Magnesium | 0.7711 | 1.00 | | | | | 0.7188 | 0 | 10 | J |
| Manganese | 0.02917 | 0.0250 | | | | | 0.02776 | 5.11 | 10 | |
| Nickel | U | 0.0250 | | | | | 0.001081 | 0 | 10 | |
| Potassium | 64.62 | 2.50 | | | | | 63.97 | 1.02 | 10 | |
| Sodium | 69.5 | 2.50 | | | | | 68.86 | 0.939 | 10 | |
| Strontium | 0.634 | 0.0250 | | | | | 0.6208 | 2.13 | 10 | |
| Vanadium | U | 0.0250 | | | | | 0.000741 | 0 | 10 | |
| Zinc | U | 0.0500 | | | | | 0.005229 | 0 | 10 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237012 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-07 | HS25120866-08 |
| HS25120866-09 | HS25120866-10 | HS25120866-11 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237013 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MBLK** Sample ID: **MBLK-237013** Units: **mg/L** Analysis Date: **29-Dec-2025 11:14**
Client ID: Run ID: **ICPMS06_528961** SeqNo: **9206586** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.00200 | | | | | | | | |
| Barium | U | 0.00500 | | | | | | | | |
| Calcium | U | 0.500 | | | | | | | | |
| Chromium | U | 0.00500 | | | | | | | | |
| Iron | U | 0.200 | | | | | | | | |
| Lead | U | 0.00200 | | | | | | | | |
| Magnesium | U | 0.200 | | | | | | | | |
| Manganese | U | 0.00500 | | | | | | | | |
| Nickel | U | 0.00500 | | | | | | | | |
| Potassium | U | 0.500 | | | | | | | | |
| Sodium | U | 0.500 | | | | | | | | |
| Strontium | U | 0.00500 | | | | | | | | |
| Vanadium | U | 0.00500 | | | | | | | | |
| Zinc | U | 0.0100 | | | | | | | | |

**LCS** Sample ID: **LCS-237013** Units: **mg/L** Analysis Date: **29-Dec-2025 11:16**
Client ID: Run ID: **ICPMS06_528961** SeqNo: **9206587** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.04512 | 0.00200 | 0.05 | 0 | 90.2 | 80 - 120 | | | | |
| Barium | 0.04317 | 0.00500 | 0.05 | 0 | 86.3 | 80 - 120 | | | | |
| Calcium | 4.766 | 0.500 | 5 | 0 | 95.3 | 80 - 120 | | | | |
| Chromium | 0.04538 | 0.00500 | 0.05 | 0 | 90.8 | 80 - 120 | | | | |
| Iron | 4.701 | 0.200 | 5 | 0 | 94.0 | 80 - 120 | | | | |
| Lead | 0.04456 | 0.00200 | 0.05 | 0 | 89.1 | 80 - 120 | | | | |
| Magnesium | 4.69 | 0.200 | 5 | 0 | 93.8 | 80 - 120 | | | | |
| Manganese | 0.04562 | 0.00500 | 0.05 | 0 | 91.2 | 80 - 120 | | | | |
| Nickel | 0.05132 | 0.00500 | 0.05 | 0 | 103 | 80 - 120 | | | | |
| Potassium | 4.611 | 0.500 | 5 | 0 | 92.2 | 80 - 120 | | | | |
| Sodium | 4.691 | 0.500 | 5 | 0 | 93.8 | 80 - 120 | | | | |
| Strontium | 0.09793 | 0.00500 | 0.1 | 0 | 97.9 | 80 - 120 | | | | |
| Vanadium | 0.04632 | 0.00500 | 0.05 | 0 | 92.6 | 80 - 120 | | | | |
| Zinc | 0.04746 | 0.0100 | 0.05 | 0 | 94.9 | 80 - 120 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237013 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**MS** Sample ID: **HS25120866-12MS** Units: **mg/L** Analysis Date: **29-Dec-2025 11:21**
Client ID: **MW-1-700** Run ID: **ICPMS06_528961** SeqNo: **9206590** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.04751 | 0.00200 | 0.05 | 0.001921 | 91.2 | 80 - 120 | | | | |
| Barium | 0.0914 | 0.00500 | 0.05 | 0.05164 | 79.5 | 80 - 120 | | | | S |
| Calcium | 7.35 | 0.500 | 5 | 2.674 | 93.5 | 80 - 120 | | | | |
| Chromium | 0.04444 | 0.00500 | 0.05 | -0.000011 | 88.9 | 80 - 120 | | | | |
| Iron | 5.075 | 0.200 | 5 | 0.5381 | 90.7 | 80 - 120 | | | | |
| Lead | 0.04502 | 0.00200 | 0.05 | 0.000239 | 89.6 | 80 - 120 | | | | |
| Magnesium | 4.978 | 0.200 | 5 | 0.275 | 94.1 | 80 - 120 | | | | |
| Manganese | 0.05088 | 0.00500 | 0.05 | 0.006863 | 88.0 | 80 - 120 | | | | |
| Nickel | 0.04497 | 0.00500 | 0.05 | 0.00116 | 87.6 | 80 - 120 | | | | |
| Potassium | 6.801 | 0.500 | 5 | 2.265 | 90.7 | 80 - 120 | | | | |
| Sodium | 180.6 | 0.500 | 5 | 185.1 | -89.2 | 80 - 120 | | | | SEO |
| Strontium | 0.1506 | 0.00500 | 0.1 | 0.06213 | 88.5 | 80 - 120 | | | | |
| Vanadium | 0.04734 | 0.00500 | 0.05 | 0.001168 | 92.3 | 80 - 120 | | | | |
| Zinc | 0.04754 | 0.0100 | 0.05 | 0.003674 | 87.7 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25120866-12MSD** Units: **mg/L** Analysis Date: **29-Dec-2025 11:23**
Client ID: **MW-1-700** Run ID: **ICPMS06_528961** SeqNo: **9206591** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.04757 | 0.00200 | 0.05 | 0.001921 | 91.3 | 80 - 120 | 0.04751 | 0.133 | 20 | |
| Barium | 0.09185 | 0.00500 | 0.05 | 0.05164 | 80.4 | 80 - 120 | 0.0914 | 0.495 | 20 | |
| Calcium | 7.291 | 0.500 | 5 | 2.674 | 92.3 | 80 - 120 | 7.35 | 0.798 | 20 | |
| Chromium | 0.04436 | 0.00500 | 0.05 | -0.000011 | 88.7 | 80 - 120 | 0.04444 | 0.173 | 20 | |
| Iron | 5.116 | 0.200 | 5 | 0.5381 | 91.6 | 80 - 120 | 5.075 | 0.805 | 20 | |
| Lead | 0.04469 | 0.00200 | 0.05 | 0.000239 | 88.9 | 80 - 120 | 0.04502 | 0.74 | 20 | |
| Magnesium | 4.893 | 0.200 | 5 | 0.275 | 92.4 | 80 - 120 | 4.978 | 1.72 | 20 | |
| Manganese | 0.0514 | 0.00500 | 0.05 | 0.006863 | 89.1 | 80 - 120 | 0.05088 | 1.02 | 20 | |
| Nickel | 0.04462 | 0.00500 | 0.05 | 0.00116 | 86.9 | 80 - 120 | 0.04497 | 0.801 | 20 | |
| Potassium | 6.776 | 0.500 | 5 | 2.265 | 90.2 | 80 - 120 | 6.801 | 0.373 | 20 | |
| Sodium | 179.5 | 0.500 | 5 | 185.1 | -113 | 80 - 120 | 180.6 | 0.662 | 20 | SO |
| Strontium | 0.1504 | 0.00500 | 0.1 | 0.06213 | 88.3 | 80 - 120 | 0.1506 | 0.134 | 20 | |
| Vanadium | 0.04729 | 0.00500 | 0.05 | 0.001168 | 92.2 | 80 - 120 | 0.04734 | 0.0951 | 20 | |
| Zinc | 0.05237 | 0.0100 | 0.05 | 0.003674 | 97.4 | 80 - 120 | 0.04754 | 9.67 | 20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237013 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**PDS** Sample ID: **HS25120866-12PDS** Units: **mg/L** Analysis Date: **29-Dec-2025 11:25**
Client ID: **MW-1-700** Run ID: **ICPMS06_528961** SeqNo: **9206592** PrepDate: **24-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.1077 | 0.00200 | 0.1 | 0.001921 | 106 | 75 - 125 | | | | |
| Barium | 0.1535 | 0.00500 | 0.1 | 0.05164 | 102 | 75 - 125 | | | | |
| Calcium | 13.36 | 0.500 | 10 | 2.674 | 107 | 75 - 125 | | | | |
| Chromium | 0.1015 | 0.00500 | 0.1 | -0.000011 | 102 | 75 - 125 | | | | |
| Iron | 11.41 | 0.200 | 10 | 0.5381 | 109 | 75 - 125 | | | | |
| Lead | 0.1039 | 0.00200 | 0.1 | 0.000239 | 104 | 75 - 125 | | | | |
| Magnesium | 11.1 | 0.200 | 10 | 0.275 | 108 | 75 - 125 | | | | |
| Manganese | 0.1105 | 0.00500 | 0.1 | 0.006863 | 104 | 75 - 125 | | | | |
| Nickel | 0.1012 | 0.00500 | 0.1 | 0.00116 | 100 | 75 - 125 | | | | |
| Potassium | 13.14 | 0.500 | 10 | 2.265 | 109 | 75 - 125 | | | | |
| Strontium | 0.1459 | 0.00500 | 0.1 | 0.06213 | 83.8 | 75 - 125 | | | | |
| Vanadium | 0.1047 | 0.00500 | 0.1 | 0.001168 | 104 | 75 - 125 | | | | |
| Zinc | 0.1112 | 0.0100 | 0.1 | 0.003674 | 108 | 75 - 125 | | | | |

**PDS** Sample ID: **HS25120866-12PDS** Units: **mg/L** Analysis Date: **29-Dec-2025 14:51**
Client ID: **MW-1-700** Run ID: **ICPMS06_528961** SeqNo: **9206950** PrepDate: **24-Dec-2025** DF: **20**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 359.2 | 10.0 | 200 | 186.4 | 86.4 | 75 - 125 | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237013 ( 0 )** **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

**SD** Sample ID: **HS25120866-12SD** Units: **mg/L** Analysis Date: **29-Dec-2025 11:19**
Client ID: **MW-1-700** Run ID: **ICPMS06_528961** SeqNo: **9206589** PrepDate: **24-Dec-2025** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | U | 0.0100 | | | | | 0.001921 | 0 | 10 | |
| Barium | 0.05169 | 0.0250 | | | | | 0.05164 | 0.0891 | 10 | |
| Calcium | 2.671 | 2.50 | | | | | 2.674 | 0.111 | 10 | |
| Chromium | U | 0.0250 | | | | | -0.000011 | 0 | 10 | |
| Iron | 0.5793 | 1.00 | | | | | 0.5381 | 0 | 10 | J |
| Lead | U | 0.0100 | | | | | 0.000239 | 0 | 10 | |
| Magnesium | 0.3102 | 1.00 | | | | | 0.275 | 0 | 10 | J |
| Manganese | U | 0.0250 | | | | | 0.006863 | 0 | 10 | |
| Nickel | U | 0.0250 | | | | | 0.00116 | 0 | 10 | |
| Potassium | 2.337 | 2.50 | | | | | 2.265 | 0 | 10 | J |
| Strontium | 0.06141 | 0.0250 | | | | | 0.06213 | 1.16 | 10 | |
| Vanadium | U | 0.0250 | | | | | 0.001168 | 0 | 10 | |
| Zinc | U | 0.0500 | | | | | 0.003674 | 0 | 10 | |

**SD** Sample ID: **HS25120866-12SD** Units: **mg/L** Analysis Date: **29-Dec-2025 14:49**
Client ID: **MW-1-700** Run ID: **ICPMS06_528961** SeqNo: **9206949** PrepDate: **24-Dec-2025** DF: **100**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | %D Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 191.9 | 50.0 | | | | | 186.4 | 2.95 | 10 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-12 | HS25120866-13 | HS25120866-14 | HS25120866-15 |
| HS25120866-16 | HS25120866-17 | HS25120866-18 | HS25120866-19 |
| HS25120866-20 | HS25120866-21 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237100 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-237100** Units: **mg/L** Analysis Date: **30-Dec-2025 14:29**
Client ID: Run ID: **HG05_529061** SeqNo: **9208550** PrepDate: **30-Dec-2025** DF: **1**

| Analyte | Result | | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | U | | 0.000200 | | | | | | | | |

**LCS** Sample ID: **LCS-237100** Units: **mg/L** Analysis Date: **30-Dec-2025 14:31**
Client ID: Run ID: **HG05_529061** SeqNo: **9208551** PrepDate: **30-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00474 | 0.000200 | 0.005 | 0 | 94.8 | 80 - 120 | | | | |

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **30-Dec-2025 14:55**
Client ID: **MW-2-500** Run ID: **HG05_529061** SeqNo: **9208564** PrepDate: **30-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00551 | 0.000200 | 0.005 | 0.000004 | 110 | 75 - 125 | | | | |

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **30-Dec-2025 14:59**
Client ID: **MW-2-500** Run ID: **HG05_529061** SeqNo: **9208565** PrepDate: **30-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0047 | 0.000200 | 0.005 | 0.000004 | 93.9 | 75 - 125 | 0.00551 | 15.9 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-07 | HS25120866-08 |
| HS25120866-09 | HS25120866-10 | HS25120866-11 | HS25120866-12 |
| HS25120866-13 | HS25120866-14 | HS25120866-15 | HS25120866-16 |
| HS25120866-17 | HS25120866-18 | HS25120866-19 | HS25120866-20 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: 237101 ( 0 )** **Instrument: HG05** **Method: MERCURY BY SW7470A**

**MBLK** Sample ID: **MBLK-237101** Units: **mg/L** Analysis Date: **30-Dec-2025 15:21**
Client ID: Run ID: **HG05_529061** SeqNo: **9208578** PrepDate: **30-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | U | 0.000200 | | | | | | | | |

**LCS** Sample ID: **LCS-237101** Units: **mg/L** Analysis Date: **30-Dec-2025 15:25**
Client ID: Run ID: **HG05_529061** SeqNo: **9208579** PrepDate: **30-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00511 | 0.000200 | 0.005 | 0 | 102 | 80 - 120 | | | | |

**MS** Sample ID: **HS25120893-04MS** Units: **mg/L** Analysis Date: **30-Dec-2025 15:48**
Client ID: Run ID: **HG05_529061** SeqNo: **9208591** PrepDate: **30-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00556 | 0.000200 | 0.005 | 0.000005 | 111 | 75 - 125 | | | | |

**MSD** Sample ID: **HS25120893-04MSD** Units: **mg/L** Analysis Date: **30-Dec-2025 15:49**
Client ID: Run ID: **HG05_529061** SeqNo: **9208592** PrepDate: **30-Dec-2025** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00495 | 0.000200 | 0.005 | 0.000005 | 98.9 | 75 - 125 | 0.00556 | 11.6 | 20 | |

**The following samples were analyzed in this batch:** HS25120866-21



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528639 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **19-Dec-2025 21:27**
Client ID: Run ID: **VOA13_528639** SeqNo: **9198850** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.048* | *0.0010* | *0.05* | *0* | *96.1* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *96.1* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.048* | *0.0010* | *0.05* | *0* | *96.3* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **19-Dec-2025 20:18**
Client ID: Run ID: **VOA13_528639** SeqNo: **9198848** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 104 | 74 - 120 | | | | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 99.6 | 77 - 117 | | | | |
| m,p-Xylene | 0.040 | 0.0040 | 0.04 | 0 | 101 | 77 - 122 | | | | |
| o-Xylene | 0.020 | 0.0020 | 0.02 | 0 | 99.3 | 75 - 119 | | | | |
| Toluene | 0.020 | 0.0020 | 0.02 | 0 | 98.5 | 77 - 118 | | | | |
| Xylenes, Total | 0.060 | 0.0060 | 0.06 | 0 | 100 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *99.4* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.050* | *0.0010* | *0.05* | *0* | *101* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.9* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.048* | *0.0010* | *0.05* | *0* | *96.3* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528639 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD** Units: **mg/L** Analysis Date: **19-Dec-2025 20:41**
Client ID: Run ID: **VOA13_528639** SeqNo: **9198849** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 104 | 74 - 120 | 0.02074 | 0.0241 | 20 | |
| Ethylbenzene | 0.019 | 0.0020 | 0.02 | 0 | 97.4 | 77 - 117 | 0.01992 | 2.19 | 20 | |
| m,p-Xylene | 0.039 | 0.0040 | 0.04 | 0 | 96.4 | 77 - 122 | 0.04037 | 4.54 | 20 | |
| o-Xylene | 0.019 | 0.0020 | 0.02 | 0 | 96.6 | 75 - 119 | 0.01987 | 2.83 | 20 | |
| Toluene | 0.020 | 0.0020 | 0.02 | 0 | 98.0 | 77 - 118 | 0.01971 | 0.55 | 20 | |
| Xylenes, Total | 0.058 | 0.0060 | 0.06 | 0 | 96.5 | 75 - 122 | 0.06024 | 3.98 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *101* | *70 - 123* | *0.04972* | *1.35* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *103* | *77 - 113* | *0.05032* | *2.08* | *20* | |
| *Surr: Dibromofluoromethane* | *0.046* | *0.0010* | *0.05* | *0* | *92.3* | *73 - 126* | *0.04893* | *5.79* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *97.8* | *81 - 120* | *0.04813* | *1.58* | *20* | |

**The following samples were analyzed in this batch:** HS25120866-21



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528652 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **20-Dec-2025 07:44**
Client ID: Run ID: **VOA13_528652** SeqNo: **9199155** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *95.4* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *97.1* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **20-Dec-2025 06:36**
Client ID: Run ID: **VOA13_528652** SeqNo: **9199153** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 105 | 74 - 120 | | | | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 98.5 | 77 - 117 | | | | |
| m,p-Xylene | 0.039 | 0.0040 | 0.04 | 0 | 98.2 | 77 - 122 | | | | |
| o-Xylene | 0.020 | 0.0020 | 0.02 | 0 | 97.8 | 75 - 119 | | | | |
| Toluene | 0.020 | 0.0020 | 0.02 | 0 | 99.8 | 77 - 118 | | | | |
| Xylenes, Total | 0.059 | 0.0060 | 0.06 | 0 | 98.1 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.050* | *0.0010* | *0.05* | *0* | *101* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *95.3* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *97.5* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528652 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD** Units: **mg/L** Analysis Date: **20-Dec-2025 06:59**
Client ID: Run ID: **VOA13_528652** SeqNo: **9199154** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.021 | 0.0010 | 0.02 | 0 | 106 | 74 - 120 | 0.02093 | 1.45 | 20 | |
| Ethylbenzene | 0.020 | 0.0020 | 0.02 | 0 | 99.8 | 77 - 117 | 0.01970 | 1.31 | 20 | |
| m,p-Xylene | 0.040 | 0.0040 | 0.04 | 0 | 99.4 | 77 - 122 | 0.03928 | 1.22 | 20 | |
| o-Xylene | 0.020 | 0.0020 | 0.02 | 0 | 98.6 | 75 - 119 | 0.01956 | 0.82 | 20 | |
| Toluene | 0.020 | 0.0020 | 0.02 | 0 | 99.9 | 77 - 118 | 0.01995 | 0.165 | 20 | |
| Xylenes, Total | 0.059 | 0.0060 | 0.06 | 0 | 99.1 | 75 - 122 | 0.05884 | 1.09 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *70 - 123* | *0.05152* | *1.03* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *77 - 113* | *0.05037* | *2.49* | *20* | |
| *Surr: Dibromofluoromethane* | *0.046* | *0.0010* | *0.05* | *0* | *91.7* | *73 - 126* | *0.04764* | *3.8* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *97.6* | *81 - 120* | *0.04874* | *0.103* | *20* | |

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **20-Dec-2025 15:21**
Client ID: **MW-2-500** Run ID: **VOA13_528652** SeqNo: **9199149** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.023 | 0.0010 | 0.02 | 0 | 115 | 70 - 127 | | | | |
| Ethylbenzene | 0.021 | 0.0020 | 0.02 | 0 | 107 | 70 - 124 | | | | |
| m,p-Xylene | 0.045 | 0.0040 | 0.04 | 0 | 112 | 70 - 130 | | | | |
| o-Xylene | 0.022 | 0.0020 | 0.02 | 0.0006360 | 108 | 70 - 124 | | | | |
| Toluene | 0.022 | 0.0020 | 0.02 | 0 | 110 | 70 - 123 | | | | |
| Xylenes, Total | 0.067 | 0.0060 | 0.06 | 0.0006360 | 110 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.049* | *0.0010* | *0.05* | *0* | *98.3* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.050* | *0.0010* | *0.05* | *0* | *101* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *95.0* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.048* | *0.0010* | *0.05* | *0* | *96.2* | *82 - 127* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528652 ( 0 )** **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **20-Dec-2025 15:44**
Client ID: **MW-2-500** Run ID: **VOA13_528652** SeqNo: **9199150** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.022 | 0.0010 | 0.02 | 0 | 111 | 70 - 127 | 0.02293 | 2.88 | 20 | |
| Ethylbenzene | 0.021 | 0.0020 | 0.02 | 0 | 105 | 70 - 124 | 0.02146 | 2.14 | 20 | |
| m,p-Xylene | 0.043 | 0.0040 | 0.04 | 0 | 107 | 70 - 130 | 0.04473 | 4.83 | 20 | |
| o-Xylene | 0.021 | 0.0020 | 0.02 | 0.0006360 | 104 | 70 - 124 | 0.02220 | 3.47 | 20 | |
| Toluene | 0.021 | 0.0020 | 0.02 | 0 | 106 | 70 - 123 | 0.02203 | 4.18 | 20 | |
| Xylenes, Total | 0.064 | 0.0060 | 0.06 | 0.0006360 | 106 | 70 - 130 | 0.06693 | 4.38 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.048* | *0.0010* | *0.05* | *0* | *96.6* | *70 - 126* | *0.04917* | *1.81* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *77 - 113* | *0.05037* | *1.59* | *20* | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.1* | *77 - 123* | *0.04751* | *2.13* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *97.1* | *82 - 127* | *0.04810* | *0.948* | *20* | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-02 | HS25120866-03 | HS25120866-04 | HS25120866-05 |
| HS25120866-06 | HS25120866-07 | HS25120866-08 | HS25120866-09 |
| HS25120866-10 | HS25120866-11 | HS25120866-12 | HS25120866-13 |
| HS25120866-14 | HS25120866-15 | HS25120866-16 | HS25120866-17 |
| HS25120866-18 | HS25120866-19 | HS25120866-20 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528667 ( 0 )** **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK-251220** Units: **mg/L** Analysis Date: **20-Dec-2025 06:51**
Client ID: Run ID: **VOA4_528667** SeqNo: **9199740** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.053* | *0.0010* | *0.05* | *0* | *105* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.050* | *0.0010* | *0.05* | *0* | *99.5* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *98.8* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS-251220** Units: **mg/L** Analysis Date: **20-Dec-2025 05:48**
Client ID: Run ID: **VOA4_528667** SeqNo: **9199738** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.020 | 0.0010 | 0.02 | 0 | 97.9 | 74 - 120 | | | | |
| Ethylbenzene | 0.018 | 0.0020 | 0.02 | 0 | 90.5 | 77 - 117 | | | | |
| m,p-Xylene | 0.036 | 0.0040 | 0.04 | 0 | 90.5 | 77 - 122 | | | | |
| o-Xylene | 0.018 | 0.0020 | 0.02 | 0 | 89.9 | 75 - 119 | | | | |
| Toluene | 0.017 | 0.0020 | 0.02 | 0 | 83.4 | 77 - 118 | | | | |
| Xylenes, Total | 0.054 | 0.0060 | 0.06 | 0 | 90.3 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.053* | *0.0010* | *0.05* | *0* | *106* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.050* | *0.0010* | *0.05* | *0* | *101* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.049* | *0.0010* | *0.05* | *0* | *97.2* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.045* | *0.0010* | *0.05* | *0* | *89.4* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528667 ( 0 )** **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD-251220** Units: **mg/L** Analysis Date: **20-Dec-2025 06:09**
Client ID: Run ID: **VOA4_528667** SeqNo: **9199739** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.020 | 0.0010 | 0.02 | 0 | 99.5 | 74 - 120 | 0.01958 | 1.67 | 20 | |
| Ethylbenzene | 0.018 | 0.0020 | 0.02 | 0 | 87.9 | 77 - 117 | 0.01809 | 2.93 | 20 | |
| m,p-Xylene | 0.036 | 0.0040 | 0.04 | 0 | 89.6 | 77 - 122 | 0.03620 | 0.966 | 20 | |
| o-Xylene | 0.018 | 0.0020 | 0.02 | 0 | 89.1 | 75 - 119 | 0.01798 | 0.928 | 20 | |
| Toluene | 0.018 | 0.0020 | 0.02 | 0 | 90.5 | 77 - 118 | 0.01668 | 8.22 | 20 | |
| Xylenes, Total | 0.054 | 0.0060 | 0.06 | 0 | 89.4 | 75 - 122 | 0.05418 | 0.953 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.052* | *0.0010* | *0.05* | *0* | *105* | *70 - 123* | *0.05316* | *1.33* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.053* | *0.0010* | *0.05* | *0* | *107* | *77 - 113* | *0.05040* | *5.78* | *20* | |
| *Surr: Dibromofluoromethane* | *0.048* | *0.0010* | *0.05* | *0* | *96.2* | *73 - 126* | *0.04862* | *1.05* | *20* | |
| *Surr: Toluene-d8* | *0.048* | *0.0010* | *0.05* | *0* | *96.5* | *81 - 120* | *0.04468* | *7.71* | *20* | |

**MS** Sample ID: **HS25120871-10MS** Units: **mg/L** Analysis Date: **20-Dec-2025 14:09**
Client ID: Run ID: **VOA4_528667** SeqNo: **9199734** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.019 | 0.0010 | 0.02 | 0 | 93.4 | 70 - 127 | | | | |
| Ethylbenzene | 0.017 | 0.0020 | 0.02 | 0 | 86.2 | 70 - 124 | | | | |
| m,p-Xylene | 0.035 | 0.0040 | 0.04 | 0 | 86.8 | 70 - 130 | | | | |
| o-Xylene | 0.017 | 0.0020 | 0.02 | 0 | 83.4 | 70 - 124 | | | | |
| Toluene | 0.019 | 0.0020 | 0.02 | 0 | 93.2 | 70 - 123 | | | | |
| Xylenes, Total | 0.051 | 0.0060 | 0.06 | 0 | 85.7 | 70 - 130 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *103* | *70 - 126* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.046* | *0.0010* | *0.05* | *0* | *91.6* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.050* | *0.0010* | *0.05* | *0* | *101* | *77 - 123* | | | | |
| *Surr: Toluene-d8* | *0.050* | *0.0010* | *0.05* | *0* | *100* | *82 - 127* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528667 ( 0 )** **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MSD** Sample ID: **HS25120871-10MSD** Units: **mg/L** Analysis Date: **20-Dec-2025 14:29**
Client ID: Run ID: **VOA4_528667** SeqNo: **9199735** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.019 | 0.0010 | 0.02 | 0 | 94.9 | 70 - 127 | 0.01868 | 1.59 | 20 | |
| Ethylbenzene | 0.017 | 0.0020 | 0.02 | 0 | 86.6 | 70 - 124 | 0.01724 | 0.492 | 20 | |
| m,p-Xylene | 0.032 | 0.0040 | 0.04 | 0 | 80.1 | 70 - 130 | 0.03472 | 8.1 | 20 | |
| o-Xylene | 0.016 | 0.0020 | 0.02 | 0 | 81.8 | 70 - 124 | 0.01669 | 2.03 | 20 | |
| Toluene | 0.018 | 0.0020 | 0.02 | 0 | 87.9 | 70 - 123 | 0.01864 | 5.91 | 20 | |
| Xylenes, Total | 0.048 | 0.0060 | 0.06 | 0 | 80.6 | 70 - 130 | 0.05141 | 6.09 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.052* | *0.0010* | *0.05* | *0* | *105* | *70 - 126* | *0.05142* | *1.82* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.049* | *0.0010* | *0.05* | *0* | *98.1* | *77 - 113* | *0.04579* | *6.9* | *20* | |
| *Surr: Dibromofluoromethane* | *0.047* | *0.0010* | *0.05* | *0* | *93.8* | *77 - 123* | *0.05047* | *7.31* | *20* | |
| *Surr: Toluene-d8* | *0.049* | *0.0010* | *0.05* | *0* | *97.4* | *82 - 127* | *0.05011* | *2.88* | *20* | |

**The following samples were analyzed in this batch:** HS25120866-22 HS25120866-23 HS25120866-24 HS25120866-25 HS25120866-26 HS25120866-27 HS25120866-28



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528728 ( 0 )** **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **20-Dec-2025 06:56**
Client ID: Run ID: **VOA11_528728** SeqNo: **9200974** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | U | 0.0010 | | | | | | | | |
| Ethylbenzene | U | 0.0020 | | | | | | | | |
| m,p-Xylene | U | 0.0040 | | | | | | | | |
| o-Xylene | U | 0.0020 | | | | | | | | |
| Toluene | U | 0.0020 | | | | | | | | |
| Xylenes, Total | U | 0.0060 | | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.051* | *0.0010* | *0.05* | *0* | *101* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *81 - 120* | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **20-Dec-2025 05:50**
Client ID: Run ID: **VOA11_528728** SeqNo: **9200972** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.019 | 0.0010 | 0.02 | 0 | 96.7 | 74 - 120 | | | | |
| Ethylbenzene | 0.021 | 0.0020 | 0.02 | 0 | 107 | 77 - 117 | | | | |
| m,p-Xylene | 0.044 | 0.0040 | 0.04 | 0 | 109 | 77 - 122 | | | | |
| o-Xylene | 0.021 | 0.0020 | 0.02 | 0 | 107 | 75 - 119 | | | | |
| Toluene | 0.021 | 0.0020 | 0.02 | 0 | 103 | 77 - 118 | | | | |
| Xylenes, Total | 0.065 | 0.0060 | 0.06 | 0 | 108 | 75 - 122 | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *0.051* | *0.0010* | *0.05* | *0* | *102* | *70 - 123* | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *77 - 113* | | | | |
| *Surr: Dibromofluoromethane* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *73 - 126* | | | | |
| *Surr: Toluene-d8* | *0.052* | *0.0010* | *0.05* | *0* | *104* | *81 - 120* | | | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528728 ( 0 )** **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

**LCSD** Sample ID: **LCSD** Units: **mg/L** Analysis Date: **20-Dec-2025 06:12**
Client ID: Run ID: **VOA11_528728** SeqNo: **9200973** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.019 | 0.0010 | 0.02 | 0 | 97.3 | 74 - 120 | 0.01933 | 0.67 | 20 | |
| Ethylbenzene | 0.022 | 0.0020 | 0.02 | 0 | 108 | 77 - 117 | 0.02139 | 1 | 20 | |
| m,p-Xylene | 0.044 | 0.0040 | 0.04 | 0 | 111 | 77 - 122 | 0.04352 | 2.13 | 20 | |
| o-Xylene | 0.022 | 0.0020 | 0.02 | 0 | 112 | 75 - 119 | 0.02142 | 4.32 | 20 | |
| Toluene | 0.021 | 0.0020 | 0.02 | 0 | 107 | 77 - 118 | 0.02065 | 3.32 | 20 | |
| Xylenes, Total | 0.067 | 0.0060 | 0.06 | 0 | 111 | 75 - 122 | 0.06495 | 2.86 | 20 | |
| *Surr: 1,2-Dichloroethane-d4* | *0.050* | *0.0010* | *0.05* | *0* | *99.4* | *70 - 123* | *0.05123* | *3.02* | *20* | |
| *Surr: 4-Bromofluorobenzene* | *0.055* | *0.0010* | *0.05* | *0* | *111* | *77 - 113* | *0.05158* | *7.02* | *20* | |
| *Surr: Dibromofluoromethane* | *0.052* | *0.0010* | *0.05* | *0* | *103* | *73 - 126* | *0.05158* | *0.147* | *20* | |
| *Surr: Toluene-d8* | *0.055* | *0.0010* | *0.05* | *0* | *110* | *81 - 120* | *0.05205* | *5.78* | *20* | |

**The following samples were analyzed in this batch:** HS25120866-01 HS25120866-29



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528705 ( 0 )** **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

**MBLK** Sample ID: **MBLK-R528705** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528705** SeqNo: **9200533** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R528705** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528705** SeqNo: **9200532** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.6 | 5.00 | 25 | 0 | 94.4 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-R528705** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528705** SeqNo: **9200531** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.4 | 5.00 | 25 | 0 | 93.6 | 85 - 115 | 23.6 | 0.851 | 20 | |

**MS** Sample ID: **HS25120866-20MS** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: **019-995** Run ID: **WetChem_HS_528705** SeqNo: **9200534** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23 | 5.00 | 25 | -0.2 | 92.8 | 80 - 120 | | | | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-11 | HS25120866-12 | HS25120866-13 | HS25120866-14 |
| HS25120866-15 | HS25120866-16 | HS25120866-17 | HS25120866-18 |
| HS25120866-19 | HS25120866-20 | HS25120866-21 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528707 ( 0 )** **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

**MBLK** Sample ID: **MBLK-R528707** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528707** SeqNo: **9200566** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | U | 1.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R528707** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528707** SeqNo: **9200565** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.08 | 1.00 | 26.56 | 0 | 94.4 | 80 - 120 | | | | |

**LCSD** Sample ID: **LCSD-R528707** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528707** SeqNo: **9200564** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.86 | 1.00 | 26.56 | 0 | 93.6 | 80 - 120 | 25.08 | 0.851 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-11 | HS25120866-12 | HS25120866-13 | HS25120866-14 |
| HS25120866-15 | HS25120866-16 | HS25120866-17 | HS25120866-18 |
| HS25120866-19 | HS25120866-20 | HS25120866-21 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528713 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-12.20.2025** Units: **mg/L** Analysis Date: **20-Dec-2025 18:19**
Client ID: Run ID: **Skalar 03_528713** SeqNo: **9200642** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-12.20.2025** Units: **mg/L** Analysis Date: **20-Dec-2025 18:25**
Client ID: Run ID: **Skalar 03_528713** SeqNo: **9200643** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 999.4 | 5.00 | 1000 | 0 | 99.9 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-.12.20.2025** Units: **mg/L** Analysis Date: **20-Dec-2025 18:31**
Client ID: Run ID: **Skalar 03_528713** SeqNo: **9200644** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 1001 | 5.00 | 1000 | 0 | 100 | 85 - 115 | 999.4 | 0.12 | 20 | |

**DUP** Sample ID: **HS25120866-10DUP** Units: **mg/L** Analysis Date: **20-Dec-2025 19:46**
Client ID: **MW-2-500** Run ID: **Skalar 03_528713** SeqNo: **9200657** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | 0 | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 215.4 | 5.00 | | | | | 216.6 | 0.556 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-07 | HS25120866-08 |
| HS25120866-09 | HS25120866-10 | HS25120866-11 | HS25120866-12 |
| HS25120866-13 | HS25120866-14 | HS25120866-15 | HS25120866-16 |
| HS25120866-17 | HS25120866-18 | HS25120866-19 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528714 ( 0 )** **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

**MBLK** Sample ID: **MBLK-12.20.2025** Units: **mg/L** Analysis Date: **20-Dec-2025 21:08**
Client ID: Run ID: **Skalar 03_528714** SeqNo: **9200686** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | U | 5.00 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-12.20.2025** Units: **mg/L** Analysis Date: **20-Dec-2025 21:15**
Client ID: Run ID: **Skalar 03_528714** SeqNo: **9200687** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 973.2 | 5.00 | 1000 | 0 | 97.3 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-.12.20.2025** Units: **mg/L** Analysis Date: **20-Dec-2025 21:21**
Client ID: Run ID: **Skalar 03_528714** SeqNo: **9200688** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Carbonate (As CaCO3) | 976.2 | 5.00 | 1000 | 0 | 97.6 | 85 - 115 | 973.2 | 0.308 | 20 | |

**DUP** Sample ID: **HS25120899-01DUP** Units: **mg/L** Analysis Date: **20-Dec-2025 23:06**
Client ID: Run ID: **Skalar 03_528714** SeqNo: **9200679** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Bicarbonate (As CaCO3) | 462.5 | 5.00 | | | | | 461.5 | 0.216 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | U | 5.00 | | | | | 0 | 0 | 20 | |

**The following samples were analyzed in this batch:** HS25120866-20 HS25120866-21



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** **R528715 ( 0 )** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

**DUP** Sample ID: **HS25120866-10DUP** Units: **pH Units** Analysis Date: **20-Dec-2025 19:46**
Client ID: **MW-2-500** Run ID: **Skalar 03_528715** SeqNo: **9200707** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 10.71 | 1.00 | | | | | 10.71 | 0 | 10 | |
| Temp Deg C @pH | 22.2 | 0 | | | | | 22.2 | 0 | 10 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-07 | HS25120866-08 |
| HS25120866-09 | HS25120866-10 | HS25120866-11 | HS25120866-12 |
| HS25120866-13 | HS25120866-14 | HS25120866-15 | HS25120866-16 |
| HS25120866-17 | HS25120866-18 | HS25120866-19 | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** **R528716 ( 0 )** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

**DUP** Sample ID: **HS25120899-01DUP** Units: **pH Units** Analysis Date: **20-Dec-2025 23:06**
Client ID: Run ID: **Skalar 03_528716** SeqNo: **9200726** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.55 | 1.00 | | | | | 7.6 | 0.66 | 10 | |
| Temp Deg C @pH | 22.3 | 0 | | | | | 22.3 | 0 | 10 | |

**The following samples were analyzed in this batch:** HS25120866-20 HS25120866-21



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528724 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-12222025** Units: **mg/L** Analysis Date: **22-Dec-2025 08:35**
Client ID: Run ID: **Balance1_528724** SeqNo: **9200911** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-12222025** Units: **mg/L** Analysis Date: **22-Dec-2025 08:35**
Client ID: Run ID: **Balance1_528724** SeqNo: **9200910** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 972 | 10.0 | 1000 | 0 | 97.2 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25120869-04DUP** Units: **mg/L** Analysis Date: **22-Dec-2025 08:35**
Client ID: Run ID: **Balance1_528724** SeqNo: **9200909** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 362 | 10.0 | | | | | 362 | 0 | 20 | |

**DUP** Sample ID: **HS25120866-18DUP** Units: **mg/L** Analysis Date: **22-Dec-2025 08:35**
Client ID: **MW-1-200** Run ID: **Balance1_528724** SeqNo: **9200902** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 308 | 10.0 | | | | | 318 | 3.19 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-11 | HS25120866-12 |
| HS25120866-13 | HS25120866-14 | HS25120866-15 | HS25120866-16 |
| HS25120866-17 | HS25120866-18 | HS25120866-19 | HS25120866-20 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** R528777 ( 0 ) **Instrument:** WetChem_HS **Method:** SULFIDE BY SM4500 S2-F

**MBLK** Sample ID: **MBLK-R528777** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528777** SeqNo: **9202095** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | U | 5.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R528777** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528777** SeqNo: **9202094** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.6 | 5.00 | 25 | 0 | 94.4 | 85 - 115 | | | | |

**LCSD** Sample ID: **LCSD-R528777** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528777** SeqNo: **9202093** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 23.4 | 5.00 | 25 | 0 | 93.6 | 85 - 115 | 23.6 | 0.851 | 20 | |

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_528777** SeqNo: **9202097** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 24.2 | 5.00 | 25 | -0.4 | 98.4 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_528777** SeqNo: **9202096** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 24 | 5.00 | 25 | -0.4 | 97.6 | 80 - 120 | 24.2 | 0.83 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-07 | HS25120866-08 |
| HS25120866-09 | HS25120866-10 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528778 ( 0 )** **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

**MBLK** Sample ID: **MBLK-R528778** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528778** SeqNo: **9202110** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | U | 1.00 | | | | | | | | |

**LCS** Sample ID: **LCS-R528778** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528778** SeqNo: **9202109** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.08 | 1.00 | 26.56 | 0 | 94.4 | 80 - 120 | | | | |

**LCSD** Sample ID: **LCSD-R528778** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: Run ID: **WetChem_HS_528778** SeqNo: **9202108** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 24.86 | 1.00 | 26.56 | 0 | 93.6 | 80 - 120 | 25.08 | 0.851 | 20 | |

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_528778** SeqNo: **9202112** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.71 | 1.00 | 26.56 | -0.425 | 98.4 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **22-Dec-2025 11:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_528778** SeqNo: **9202111** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 25.5 | 1.00 | 26.56 | -0.425 | 97.6 | 80 - 120 | 25.71 | 0.83 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-07 | HS25120866-08 |
| HS25120866-09 | HS25120866-10 | | |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** R528798 ( 0 ) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **22-Dec-2025 10:31**
Client ID: Run ID: **ICS-04_528798** SeqNo: **9202468** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | 0.100 | | | | | | | | |
| Chloride | U | 0.500 | | | | | | | | |
| Sulfate | U | 0.500 | | | | | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **22-Dec-2025 10:42**
Client ID: Run ID: **ICS-04_528798** SeqNo: **9202469** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 3.895 | 0.100 | 4 | 0 | 97.4 | 80 - 120 | | | | |
| Chloride | 19.89 | 0.500 | 20 | 0 | 99.5 | 80 - 120 | | | | |
| Sulfate | 19.58 | 0.500 | 20 | 0 | 97.9 | 80 - 120 | | | | |

**MS** Sample ID: **HS25120866-10MS** Units: **mg/L** Analysis Date: **22-Dec-2025 12:10**
Client ID: **MW-2-500** Run ID: **ICS-04_528798** SeqNo: **9202482** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.835 | 0.100 | 2 | 0.0826 | 87.6 | 80 - 120 | | | | |
| Chloride | 45.59 | 0.500 | 10 | 36.39 | 92.0 | 80 - 120 | | | | |
| Sulfate | 11.08 | 0.500 | 10 | 1.782 | 92.9 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25120866-10MSD** Units: **mg/L** Analysis Date: **22-Dec-2025 12:15**
Client ID: **MW-2-500** Run ID: **ICS-04_528798** SeqNo: **9202483** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1.862 | 0.100 | 2 | 0.0826 | 89.0 | 80 - 120 | 1.835 | 1.47 | 20 | |
| Chloride | 45.83 | 0.500 | 10 | 36.39 | 94.4 | 80 - 120 | 45.59 | 0.536 | 20 | |
| Sulfate | 11.19 | 0.500 | 10 | 1.782 | 94.0 | 80 - 120 | 11.08 | 0.98 | 20 | |

**The following samples were analyzed in this batch:**

| | | | |
|---|---|---|---|
| HS25120866-01 | HS25120866-02 | HS25120866-03 | HS25120866-04 |
| HS25120866-05 | HS25120866-06 | HS25120866-07 | HS25120866-08 |
| HS25120866-09 | HS25120866-10 | HS25120866-11 | HS25120866-12 |
| HS25120866-13 | HS25120866-14 | HS25120866-15 | HS25120866-16 |
| HS25120866-17 | HS25120866-18 | HS25120866-19 | HS25120866-20 |



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID: R528820 ( 0 )** **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

**MBLK** Sample ID: **WMBLK-12232025** Units: **mg/L** Analysis Date: **23-Dec-2025 08:19**
Client ID: Run ID: **Balance1_528820** SeqNo: **9203037** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | U | 10.0 | | | | | | | | |

**LCS** Sample ID: **WLCS-12232025** Units: **mg/L** Analysis Date: **23-Dec-2025 08:19**
Client ID: Run ID: **Balance1_528820** SeqNo: **9203036** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 948 | 10.0 | 1000 | 0 | 94.8 | 85 - 115 | | | | |

**DUP** Sample ID: **HS25120899-04DUP** Units: **mg/L** Analysis Date: **23-Dec-2025 08:19**
Client ID: Run ID: **Balance1_528820** SeqNo: **9203035** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 954 | 10.0 | | | | | 954 | 0 | 20 | |

**DUP** Sample ID: **HS25120866-10DUP** Units: **mg/L** Analysis Date: **23-Dec-2025 08:19**
Client ID: **MW-2-500** Run ID: **Balance1_528820** SeqNo: **9203026** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids (Residue, Filterable) | 308 | 10.0 | | | | | 316 | 2.56 | 20 | |

**The following samples were analyzed in this batch:** HS25120866-07 HS25120866-08 HS25120866-09 HS25120866-10 HS25120866-21



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** HS25120866

**QC BATCH REPORT**

**Batch ID:** R528861 ( 0 ) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

**MBLK** Sample ID: **MBLK** Units: **mg/L** Analysis Date: **23-Dec-2025 12:29**
Client ID: Run ID: **ICS-04_528861** SeqNo: **9204036** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | 0.100 | | | | | | | | |
| Chloride | U | 0.500 | | | | | | | | |
| Sulfate | U | 0.500 | | | | | | | | |

**LCS** Sample ID: **LCS** Units: **mg/L** Analysis Date: **23-Dec-2025 12:41**
Client ID: Run ID: **ICS-04_528861** SeqNo: **9204037** PrepDate: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 3.863 | 0.100 | 4 | 0 | 96.6 | 80 - 120 | | | | |
| Chloride | 19.87 | 0.500 | 20 | 0 | 99.3 | 80 - 120 | | | | |
| Sulfate | 19.5 | 0.500 | 20 | 0 | 97.5 | 80 - 120 | | | | |

**MS** Sample ID: **HS25120893-04MS** Units: **mg/L** Analysis Date: **23-Dec-2025 13:16**
Client ID: Run ID: **ICS-04_528861** SeqNo: **9204043** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 18.04 | 1.00 | 20 | 0 | 90.2 | 80 - 120 | | | | |
| Chloride | 264.9 | 5.00 | 100 | 157.2 | 108 | 80 - 120 | | | | |
| Sulfate | 96.24 | 5.00 | 100 | 5.243 | 91.0 | 80 - 120 | | | | |

**MSD** Sample ID: **HS25120893-04MSD** Units: **mg/L** Analysis Date: **23-Dec-2025 13:22**
Client ID: Run ID: **ICS-04_528861** SeqNo: **9204044** PrepDate: DF: **10**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 18.08 | 1.00 | 20 | 0 | 90.4 | 80 - 120 | 18.04 | 0.233 | 20 | |
| Chloride | 263.7 | 5.00 | 100 | 157.2 | 107 | 80 - 120 | 264.9 | 0.458 | 20 | |
| Sulfate | 96.01 | 5.00 | 100 | 5.243 | 90.8 | 80 - 120 | 96.24 | 0.24 | 20 | |

**The following samples were analyzed in this batch:** HS25120866-21



RIGHT SOLUTIONS | RIGHT PARTNER

**Client:** Environmental Resources Mgmt.
**Project:** Sulphur Dome
**WorkOrder:** **HS25120866**

**QUALIFIERS, ACRONYMS, UNITS**

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| M | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL/SDL |

| Acronym | Description |
|---|---|
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |
| SDL | Sample Detection Limit |
| TRRP | Texas Risk Reduction Program |

| Unit Reported | Description |
|---|---|
| mg/L | Milligrams per Liter |



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## CERTIFICATIONS,ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|---|---|---|
| Arizona | AZ0793 | 27-May-2026 |
| Arkansas | 88-00356_2024 | 17-Mar-2026 |
| California | 2919 - 2025 | 30-Apr-2026 |
| Dept of Defense | L24-240-R4 | 30-Apr-2026 |
| Dept of Defense | L24-239-R1 | 30-Apr-2026 |
| Florida | E87611-2025 | 30-Jun-2026 |
| Illinois | 200032 - 2025 | 31-Jul-2026 |
| Kansas | KS-C25-00168 | 31-Jul-2026 |
| Kentucky | 123043-2025 | 30-Apr-2026 |
| Louisiana | 03087-2025 | 30-Jun-2026 |
| Louisiana | LA028 | 31-Dec-2026 |
| Maine | 2024017 | 23-Jun-2026 |
| Maryland | 343-2025-26 | 30-Jun-2026 |
| Michigan | 9971-2025 | 30-Apr-2026 |
| Minnesota | 2856348 | 31-Dec-2025 |
| Missouri | 136 | 30-Sep-2026 |
| Nebraska | NE-OS-25-13 - 2025 | 30-Apr-2026 |
| Nevada | NV-C25-00124 - 2025 | 31-Jul-2026 |
| New Hampshire | 209425 | 24-Apr-2026 |
| New Jersey | TX008-2025 | 30-Jun-2026 |
| New York | 11707 - 2025 | 01-Apr-2026 |
| North Carolina | 624 - 2024 | 31-Dec-2025 |
| Oklahoma | 2023-140 | 31-Dec-2025 |
| Oregon | TX200002-013 | 15-May-2026 |
| Pennsylvania | 019 | 01-Jul-2026 |
| Tennessee | TN | 30-Apr-2026 |
| Texas | TX-C25-00104 | 30-Apr-2026 |
| Utah | TX026932025-17 | 31-Jul-2026 |



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## Sample Receipt Checklist

**Work Order ID:** HS25120866 **Date/Time Received:** **19-Dec-2025 11:05**

**Client Name:** ERMSW-HOU **Received by:** **Edgar Zheku**

| **Completed By:** | /S/ Edgar Zheku | 19-Dec-2025 14:08 | **Reviewed by:** | /S/ Beverly Mustafa | 22-Dec-2025 10:47 |
|---|---|---|---|---|---|
| | eSignature | Date/Time | | eSignature | Date/Time |

Matrices: **W** Carrier name: **Client**

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | 3 Page(s) |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | COC IDs:351997, 346846, 346850 |
| Samplers name present on COC? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |

| | | |
|---|---|---|
| Temperature(s)/Thermometer(s): | 1.7UC/C, 2.2UC/C, 1.9UC/C, 0.7UC/C, 1.6UC/C, 1.2UC/C, 0.8UC/C, 0.5UC/C | IR 37 |
| Cooler(s)/Kit(s): | 54003, 53990, 48162, 54710, 54869, 51211, 54763, 52323 | |
| Date/Time sample(s) sent to storage: | 12/19/2025 14:08 | |

| | | | |
|---|---|---|---|
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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# Chain of Custody Form

Page _____ of _____

COC ID: 346846

**HS25120866**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | | | |
|---|---|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1-500 | 12/16/25 | 1100 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | MW-1-700 | 12/16/25 | 1400 | | | | | | | | | | | | | | |
| 3 | MW-3-200 | 12/16/25 | 1625 | | | | | | | | | | | | | | |
| 4 | 019-582 | 12/16/25 | 0800 | | | | | | | | | | | | | | |
| 5 | Cottages | 12/16/25 | 0850 | | | | | | | | | | | | | | |
| 6 | FB-121625 | 12/16/25 | 0820 | | | | | | | | | | | | | | |
| 7 | FB-121525 | 12/15/25 | 1510 | | | | | | | | | | | | | | |
| 8 | MW-1-200 | 12/15/25 | 1540 | | | | | | | | | | | | | | |
| 9 | 019-580 | 12/16/25 | 0745 | | | | | | | | | | | | | | |
| 10 | 019-995 | 12/17/25 | 1155 | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Kelly McNair

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other _____

Results Due Date:

| Relinquished by: | Date: | Time: | Received by: |
|---|---|---|---|
| Kelly McNair | 12/19/25 | 1105 | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 12/19/25 11:05 |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): |

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| | |
| | |

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level III Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other _____
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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# Chain of Custody Form

Page ____ of ____

COC ID: 351997

**HS25120866**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | |
|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome |
| Work Order | | Project Number | |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com |

| | |
|---|---|
| A | 8260_LL_W (Low Level VOC: (8260) BTEX) |
| B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| C | HG_W (Mercury) |
| D | MA EPH_W_La (MA EPH) |
| E | MA VPH_LA_W |
| F | 9056_anions_W (Cl,SO4,Br) / pH |
| G | ALK_W 2320B (carb, bicarb) |
| H | H2S_W (H2S) |
| I | SULFD_4500S F (Sulfide) |
| J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FB-121725 | 12/17/25 | 1400 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | MW-3-700 | 12/17/25 | 1415 | | | | | | | | | | | | | | |
| 3 | MW-3-500 | 12/17/25 | 0925 | | | | | | | | | | | | | | |
| 4 | 019-1603 | 12/17/25 | 1100 | | | | | | | | | | | | | | |
| 5 | 019-1055 | 12/17/25 | 1125 | | | | | | | | | | | | | | |
| 6 | GW-Rinsate | 12/17/25 | 1545 | | | | | | | | | | | | | | |
| 7 | FB-121825 | 12/18/25 | 1100 | | | | | | | | | | | | | | |
| 8 | MW-2-700 | 12/18/25 | 0935 | | | | | | | | | | | | | | |
| 9 | MW-2-200 | 12/18/25 | 1130 | | | | | | | | | | | | | | |
| 10 | MW-2-500 | 12/18/25 | 1600 | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Kelly McNair

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ____ ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

| Relinquished by: | Date: | Time: | Received by: |
|---|---|---|---|
| Kelly McNair | 12/19/25 | 1105 | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 12/19/25 11:05 |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): |

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| | |
| | |
| | |

QC Package: (Check One Box Below)

- ☒ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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# Chain of Custody Form

Page ____ of ____

COC ID: 346850

**HS25120866**

, WV

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | |
|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome |
| Work Order | | Project Number | |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com |

| | |
|---|---|
| A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| C | HG_W (Mercury) |
| D | MA EPH_W_La (MA EPH) |
| E | MA VPH_LA_W |
| F | 9056_anions_W (Cl,SO4,Br) / pH |
| G | ALK_W 2320B (carb, bicarb) |
| H | H2S_W (H2S) |
| I | SULFD_4500S F (Sulfide) |
| J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MS-MW-2-500 | 12/18/25 | 1600 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | MSD-MW-2-500 | 12/18/25 | 1600 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 3 | GW-DUP-01 | 12/18/25 | 9999 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 4 | CG-103025-650 | — | — | ↓ | 1 | 2 | X | | | | | | | | | | |
| 5 | CG-103025-597 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 6 | CG-103025-699 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 7 | CG-103025-596 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 8 | CG-103025-585 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 9 | CG-061125-767 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 10 | CG-103025-595 / CG-103025-589 | — | — | X | X | X | X | | | | | | | | | | |

Sampler(s) Please Print & Sign: Kelly McNair Kelly McNair

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ____ ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

| Relinquished by: | Date: | Time: | Received by: |
|---|---|---|---|
| Kelly McNair | 12/19/25 | 1105 | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 12/19/25 11:05 |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): |

Notes: ERM Sulphur Dome

| Cooler ID | Cooler Temp. |
|---|---|
| | |
| | |
| | |

QC Package: (Check One Box Below)

- ☒ Level II Std QC
- ☐ Level III Std QC/Raw Date
- ☐ Level IV SW846/CLP
- ☐ Other ____
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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# Chain of Custody Form

Page ____ of ____

COC ID: 346846

**HS25120866**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | | | |
|---|---|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1-500 | 12/16/25 | 1100 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | MW-1-700 | 12/16/25 | 1400 | | | | | | | | | | | | | | |
| 3 | MW-3-200 | 12/16/25 | 1625 | | | | | | | | | | | | | | |
| 4 | 019-582 | 12/16/25 | 0800 | | | | | | | | | | | | | | |
| 5 | Cottages | 12/16/25 | 0850 | | | | | | | | | | | | | | |
| 6 | FB-121625 | 12/16/25 | 0820 | | | | | | | | | | | | | | |
| 7 | FB-121525 | 12/15/25 | 1510 | | | | | | | | | | | | | | |
| 8 | MW-1-200 | 12/15/25 | 1540 | | | | | | | | | | | | | | |
| 9 | 019-580 | 12/16/25 | 0745 | | | | | | | | | | | | | | |
| 10 | 019-995 | 12/17/25 | 1155 | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Kelly McNair *Kelly McNair*

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Kelly McNair | Date: 12/19/25 | Time: 1105 | Received by: | Notes: ERM Sulphur Dome | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 12/19/25 11:05 | Cooler ID | Cooler Temp. |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | | |

QC Package: (Check One Box Below)
- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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# Chain of Custody Form

Page _____ of _____

COC ID: 351997

**HS25120866**

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | | | |
|---|---|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome | A | 8260_LL_W (Low Level VOC: (8260) BTEX) |
| Work Order | | Project Number | | B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. | C | HG_W (Mercury) |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable | D | MA EPH_W_La (MA EPH) |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | E | MA VPH_LA_W |
| | | | | F | 9056_anions_W (Cl,SO4,Br) / pH |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 | G | ALK_W 2320B (carb, bicarb) |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 | H | H2S_W (H2S) |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 | I | SULFD_4500S F (Sulfide) |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com | J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FB-121725 | 12/17/25 | 1400 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | MW-3-700 | 12/17/25 | 1415 | | | | | | | | | | | | | | |
| 3 | MW-3-500 | 12/17/25 | 0925 | | | | | | | | | | | | | | |
| 4 | 019-1603 | 12/17/25 | 1100 | | | | | | | | | | | | | | |
| 5 | 019-1055 | 12/17/25 | 1125 | | | | | | | | | | | | | | |
| 6 | GW-Rinsate | 12/17/25 | 1545 | | | | | | | | | | | | | | |
| 7 | FB-121825 | 12/18/25 | 1100 | | | | | | | | | | | | | | |
| 8 | MW-2-700 | 12/18/25 | 0935 | | | | | | | | | | | | | | |
| 9 | MW-2-200 | 12/18/25 | 1130 | | | | | | | | | | | | | | |
| 10 | MW-2-500 | 12/18/25 | 1600 | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Kelly McNair

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Kelly McNair | Date: 12/19/25 | Time: 1105 | Received by: | Notes: ERM Sulphur Dome | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 12/19/25 11:05 | Cooler ID | Cooler Temp. |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | | |

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level III Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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# Chain of Custody Form

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COC ID: 346850

**HS25120866**

, WV

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

| Customer Information | | Project Information | |
|---|---|---|---|
| Purchase Order | 0801006 | Project Name | Sulphur Dome |
| Work Order | | Project Number | |
| Company Name | Environmental Resources Mgmt. | Bill To Company | Environmental Resources Mgmt. |
| Send Report To | Scott Himes | Invoice Attn | Accounts Payable |
| Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 | Address | CityCentre Four<br>840 W. Sam Houston Pkwy., Suite 6 |
| City/State/Zip | Houston, TX 77024 | City/State/Zip | Houston TX 77024 |
| Phone | (281) 600-1000 | Phone | (281) 600-1000 |
| Fax | (281) 600-1001 | Fax | (281) 600-1001 |
| e-Mail Address | scott.himes@erm.com | e-Mail Address | ERMNAAccountsPayable@erm.com |

| | |
|---|---|
| A | 8260_LL_W (Low Level VOC (8260) BTEX) |
| B | ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V |
| C | HG_W (Mercury) |
| D | MA EPH_W_La (MA EPH) |
| E | MA VPH_LA_W |
| F | 9056_anions_W (Cl,SO4,Br) / pH |
| G | ALK_W 2320B (carb, bicarb) |
| H | H2S_W (H2S) |
| I | SULFD_4500S F (Sulfide) |
| J | TDS_W 2540C (TDS) |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MS-MW-2-500 | 12/18/25 | 1600 | W | 1,2,4,8 | 11 | X | X | X | X | X | X | X | X | X | X | |
| 2 | MSD-MW-2-500 | 12/18/25 | 1600 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 3 | GW-DUP-01 | 12/18/25 | 9999 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 4 | CG-103025-650 | — | — | ↓ | 1 | 2 | X | | | | | | | | | | |
| 5 | CG-103025-597 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 6 | CG-103025-699 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 7 | CG-103025-596 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 8 | CG-103025-585 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 9 | CG-061125-767 | — | — | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | |
| 10 | CG-103025-595 / CG-103025-589 | — | — | X | X | X | X | | | | | | | | | | |

Sampler(s) Please Print & Sign: Kelly McNair Kelly McNair

Shipment Method:

Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Kelly McNair | Date: 12/19/25 | Time: 1105 | Received by: | Notes: ERM Sulphur Dome | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): 12/19/25 11:05 | Cooler ID | Cooler Temp. |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | | |

QC Package: (Check One Box Below)

☒ Level II Std QC
☐ Level III Std QC/Raw Date
☐ Level IV SW846/CLP
☐ Other _____
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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**Lab #:** 988471 **Job #:** 64390

**Sample Name:** LDNR-17

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/21/2025 08:40 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0036 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0782 | | | | |
| Oxygen | 0.45 | | | | |
| Nitrogen | 4.51 | | | | |
| Carbon Dioxide | 1.92 | | | | |
| Methane | 91.06 | -38.71 | -160.8 | | |
| Ethane | 1.58 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.217 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0717 | | | | |
| N-butane | 0.0534 | | | | |
| Iso-pentane | 0.0249 | | | | |
| N-pentane | 0.0147 | | | | |
| Hexanes + | 0.0227 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 964
Specific gravity, calculated: 0.607
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988472 **Job #:** 64390

**Sample Name:** LDNR-12

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/21/2025 08:50 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0027 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.139 | | | | |
| Oxygen | 0.94 | | | | |
| Nitrogen | 6.62 | | | | |
| Carbon Dioxide | 0.99 | | | | |
| Methane | 87.77 | -45.59 | -191.1 | | |
| Ethane | 3.15 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.226 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0649 | | | | |
| N-butane | 0.0512 | | | | |
| Iso-pentane | 0.0205 | | | | |
| N-pentane | 0.0110 | | | | |
| Hexanes + | 0.0159 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 958
Specific gravity, calculated: 0.617
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988473 **Job #:** 64390

**Sample Name:** LDNR-18

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/21/2025 08:30 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0032 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0812 | | | | |
| Oxygen | 0.54 | | | | |
| Nitrogen | 4.37 | | | | |
| Carbon Dioxide | 1.55 | | | | |
| Methane | 92.08 | -35.94 | -150.5 | | |
| Ethane | 0.912 | | | | |
| Ethylene | 0.0002 | | | | |
| Propane | 0.231 | | | | |
| Propylene | 0.0001 | | | | |
| Iso-butane | 0.0770 | | | | |
| N-butane | 0.0664 | | | | |
| Iso-pentane | 0.0326 | | | | |
| N-pentane | 0.0232 | | | | |
| Hexanes + | 0.0358 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 964
Specific gravity, calculated: 0.601
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988474 **Job #:** 64390

**Sample Name:** LDNR-21

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/21/2025 08:20 **Date Received:** 10/28/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0038 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.121 | | | | |
| Oxygen | 1.03 | | | | |
| Nitrogen | 6.37 | | | | |
| Carbon Dioxide | 2.04 | | | | |
| Methane | 89.37 | -37.74 | -137.6 | | |
| Ethane | 0.872 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.0894 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0581 | | | | |
| N-butane | 0.0039 | | | | |
| Iso-pentane | 0.0239 | | | | |
| N-pentane | 0.0008 | | | | |
| Hexanes + | 0.0237 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 928
Specific gravity, calculated: 0.614
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988475 **Job #:** 64390

**Sample Name:** LDNR-22

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/21/2025 08:10 **Date Received:** 10/28/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0030 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.114 | | | | |
| Oxygen | 1.05 | | | | |
| Nitrogen | 6.53 | | | | |
| Carbon Dioxide | 1.65 | | | | |
| Methane | 87.97 | -42.58 | -174.6 | | |
| Ethane | 2.29 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.216 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0632 | | | | |
| N-butane | 0.0501 | | | | |
| Iso-pentane | 0.0228 | | | | |
| N-pentane | 0.0141 | | | | |
| Hexanes + | 0.0236 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 944
Specific gravity, calculated: 0.620
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988476 **Job #:** 64390

**Sample Name:** Gas-Dup-01

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/20/2025 12:00 **Date Received:** 10/28/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0034 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0661 | | | | |
| Oxygen | 0.58 | | | | |
| Nitrogen | 3.24 | | | | |
| Carbon Dioxide | 1.29 | | | | |
| Methane | 93.65 | -34.68 | -144.9 | | |
| Ethane | 0.722 | | | | |
| Ethylene | 0.0345 | | | | |
| Propane | 0.215 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0841 | | | | |
| N-butane | 0.0678 | | | | |
| Iso-pentane | 0.0290 | | | | |
| N-pentane | 0.0157 | | | | |
| Hexanes + | 0.0161 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 976
Specific gravity, calculated: 0.593
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988477 **Job #:** 64390

**Sample Name:** LDNR-23

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/20/2025 13:50 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0039 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0623 | | | | |
| Oxygen | 0.43 | | | | |
| Nitrogen | 3.07 | | | | |
| Carbon Dioxide | 1.29 | | | | |
| Methane | 93.35 | -37.13 | -152.6 | | |
| Ethane | 1.31 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.233 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0799 | | | | |
| N-butane | 0.0690 | | | | |
| Iso-pentane | 0.0376 | | | | |
| N-pentane | 0.0277 | | | | |
| Hexanes + | 0.0371 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 985
Specific gravity, calculated: 0.595
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988478 **Job #:** 64390

**Sample Name:** LDNR-03

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/20/2025 12:15 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0037 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0476 | | | | |
| Oxygen | 0.36 | | | | |
| Nitrogen | 3.23 | | | | |
| Carbon Dioxide | 2.74 | | | | |
| Methane | 92.59 | -34.42 | -146.5 | | |
| Ethane | 0.613 | | | | |
| Ethylene | 0.0076 | | | | |
| Propane | 0.182 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0678 | | | | |
| N-butane | 0.0561 | | | | |
| Iso-pentane | 0.0328 | | | | |
| N-pentane | 0.0226 | | | | |
| Hexanes + | 0.0449 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 963
Specific gravity, calculated: 0.605
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988479 **Job #:** 64390

**Sample Name:** LDNR-4

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/20/2025 12:20 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0035 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0224 | | | | |
| Oxygen | 0.16 | | | | |
| Nitrogen | 1.41 | | | | |
| Carbon Dioxide | 1.91 | | | | |
| Methane | 94.69 | -36.95 | -154.3 | | |
| Ethane | 1.31 | | | | |
| Ethylene | 0.0173 | | | | |
| Propane | 0.249 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0766 | | | | |
| N-butane | 0.0684 | | | | |
| Iso-pentane | 0.0309 | | | | |
| N-pentane | 0.0217 | | | | |
| Hexanes + | 0.0314 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 998
Specific gravity, calculated: 0.592
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988480 **Job #:** 64390

**Sample Name:** LDNR-5

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/20/2025 14:40 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0037 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0673 | | | | |
| Oxygen | 0.43 | | | | |
| Nitrogen | 3.32 | | | | |
| Carbon Dioxide | 1.29 | | | | |
| Methane | 93.37 | -35.58 | -146.4 | | |
| Ethane | 1.03 | | | | |
| Ethylene | 0.0056 | | | | |
| Propane | 0.258 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0800 | | | | |
| N-butane | 0.0707 | | | | |
| Iso-pentane | 0.0284 | | | | |
| N-pentane | 0.0178 | | | | |
| Hexanes + | 0.0217 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 980
Specific gravity, calculated: 0.594
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988481 **Job #:** 64390

**Sample Name:** LDNR-6

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/20/2025 13:30 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0041 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0982 | | | | |
| Oxygen | 1.39 | | | | |
| Nitrogen | 6.18 | | | | |
| Carbon Dioxide | 1.33 | | | | |
| Methane | 89.86 | -34.63 | -142.7 | | |
| Ethane | 0.694 | | | | |
| Ethylene | 0.0331 | | | | |
| Propane | 0.207 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0813 | | | | |
| N-butane | 0.0656 | | | | |
| Iso-pentane | 0.0281 | | | | |
| N-pentane | 0.0153 | | | | |
| Hexanes + | 0.0159 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 936
Specific gravity, calculated: 0.610
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988482 **Job #:** 64390

**Sample Name:** LDNR-7

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/20/2025 14:00 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0032 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0973 | | | | |
| Oxygen | 0.94 | | | | |
| Nitrogen | 5.52 | | | | |
| Carbon Dioxide | 1.26 | | | | |
| Methane | 88.70 | -44.29 | -186.0 | | |
| Ethane | 3.08 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.242 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0633 | | | | |
| N-butane | 0.0526 | | | | |
| Iso-pentane | 0.0193 | | | | |
| N-pentane | 0.0106 | | | | |
| Hexanes + | 0.0157 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 966
Specific gravity, calculated: 0.615
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988483 **Job #:** 64390

**Sample Name:** PPG-4

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/20/2025 10:50 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | 0.0042 | | | | |
| Argon | 0.231 | | | | |
| Oxygen | 0.071 | | | | |
| Nitrogen | 17.77 | | | | |
| Carbon Dioxide | 0.12 | | | | |
| Methane | 78.04 | -33.73 | -146.5 | | |
| Ethane | 0.758 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.989 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.240 | | | | |
| N-butane | 0.712 | | | | |
| Iso-pentane | 0.268 | | | | |
| N-pentane | 0.344 | | | | |
| Hexanes + | 0.455 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 907
Specific gravity, calculated: 0.681
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988484 **Job #:** 64390

**Sample Name:** PPG-2

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/20/2025 11:00 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | 0.409 | | | | |
| Argon | 0.501 | | | | |
| Oxygen | 0.60 | | | | |
| Nitrogen | 52.73 | | | | |
| Carbon Dioxide | 1.42 | | | | |
| Methane | 43.04 | -40.03 | -149.9 | | |
| Ethane | 0.394 | | | | |
| Ethylene | 0.0004 | | | | |
| Propane | 0.195 | | | | |
| Propylene | 0.0002 | | | | |
| Iso-butane | 0.0905 | | | | |
| N-butane | 0.230 | | | | |
| Iso-pentane | 0.106 | | | | |
| N-pentane | 0.127 | | | | |
| Hexanes + | 0.157 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 477
Specific gravity, calculated: 0.808
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988485 **Job #:** 64390

**Sample Name:** PPG-7ABS

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/23/2025 13:30 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.937 | | | | |
| Oxygen | 21.04 | | | | |
| Nitrogen | 77.82 | | | | |
| Carbon Dioxide | 0.070 | | | | |
| Methane | 0.136 | -32.6 | | | |
| Ethane | 0.0011 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.0003 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0001 | | | | |
| N-butane | nd | | | | |
| Iso-pentane | nd | | | | |
| N-pentane | nd | | | | |
| Hexanes + | 0.0001 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 1
Specific gravity, calculated: 1.000
Remarks:
Methane carbon isotope data obtained online via GC-C-IRMS.
Insufficient methane concentration for δD analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988486 **Job #:** 64390

**Sample Name:** BKGRD-ATM

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/23/2025 09:45 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.938 | | | | |
| Oxygen | 21.07 | | | | |
| Nitrogen | 77.88 | | | | |
| Carbon Dioxide | 0.065 | | | | |
| Methane | 0.0443 | | | | |
| Ethane | 0.0004 | | | | |
| Ethylene | nd | | | | |
| Propane | nd | | | | |
| Propylene | nd | | | | |
| Iso-butane | nd | | | | |
| N-butane | nd | | | | |
| Iso-pentane | nd | | | | |
| N-pentane | nd | | | | |
| Hexanes + | nd | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.000
Remarks:
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988487 **Job #:** 64390

**Sample Name:** LDNR-1

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/22/2025 15:30 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0043 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0688 | | | | |
| Oxygen | 0.29 | | | | |
| Nitrogen | 3.53 | | | | |
| Carbon Dioxide | 6.02 | | | | |
| Methane | 88.24 | -40.18 | -166.8 | | |
| Ethane | 1.23 | | | | |
| Ethylene | 0.0008 | | | | |
| Propane | 0.351 | | | | |
| Propylene | 0.0001 | | | | |
| Iso-butane | 0.0875 | | | | |
| N-butane | 0.0851 | | | | |
| Iso-pentane | 0.0333 | | | | |
| N-pentane | 0.0195 | | | | |
| Hexanes + | 0.0387 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 935
Specific gravity, calculated: 0.643
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988488 **Job #:** 64390

**Sample Name:** LDNR-27

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/23/2025 10:00 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.936 | | | | |
| Oxygen | 21.01 | | | | |
| Nitrogen | 77.99 | | | | |
| Carbon Dioxide | 0.070 | | | | |
| Methane | 0.0012 | | | | |
| Ethane | nd | | | | |
| Ethylene | nd | | | | |
| Propane | nd | | | | |
| Propylene | nd | | | | |
| Iso-butane | nd | | | | |
| N-butane | nd | | | | |
| Iso-pentane | nd | | | | |
| N-pentane | nd | | | | |
| Hexanes + | 0.0001 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.000
Remarks:
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988489 **Job #:** 64390

**Sample Name:** LDNR-28

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/23/2025 10:15 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.941 | | | | |
| Oxygen | 19.64 | | | | |
| Nitrogen | 78.52 | | | | |
| Carbon Dioxide | 0.79 | | | | |
| Methane | 0.118 | -29.7 | | | |
| Ethane | 0.0002 | | | | |
| Ethylene | nd | | | | |
| Propane | nd | | | | |
| Propylene | nd | | | | |
| Iso-butane | nd | | | | |
| N-butane | nd | | | | |
| Iso-pentane | nd | | | | |
| N-pentane | nd | | | | |
| Hexanes + | 0.0002 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 1
Specific gravity, calculated: 1.002
Remarks:
Methane carbon isotope data obtained online via GC-C-IRMS.
Insufficient methane concentration for δD analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988490 **Job #:** 64390

**Sample Name:** LDNR-10

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/23/2025 10:10 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.935 | | | | |
| Oxygen | 20.99 | | | | |
| Nitrogen | 77.91 | | | | |
| Carbon Dioxide | 0.082 | | | | |
| Methane | 0.0863 | -28.1 | | | |
| Ethane | 0.0002 | | | | |
| Ethylene | nd | | | | |
| Propane | nd | | | | |
| Propylene | nd | | | | |
| Iso-butane | nd | | | | |
| N-butane | nd | | | | |
| Iso-pentane | nd | | | | |
| N-pentane | nd | | | | |
| Hexanes + | 0.0001 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 1
Specific gravity, calculated: 1.000
Remarks:
Methane carbon isotope data obtained online via GC-C-IRMS.
Insufficient methane concentration for δD analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988491 **Job #:** 64390

**Sample Name:** LDNR-09

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/22/2025 14:30 **Date Received:** 10/27/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.157 | | | | |
| Oxygen | 3.01 | | | | |
| Nitrogen | 12.15 | | | | |
| Carbon Dioxide | 2.59 | | | | |
| Methane | 81.41 | -35.50 | -147.5 | | |
| Ethane | 0.513 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.0862 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0400 | | | | |
| N-butane | 0.0125 | | | | |
| Iso-pentane | 0.0096 | | | | |
| N-pentane | 0.0027 | | | | |
| Hexanes + | 0.0196 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 840
Specific gravity, calculated: 0.652
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988492 **Job #:** 64390

**Sample Name:** LDNR-19

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/23/2025 10:45 **Date Received:** 10/28/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.939 | | | | |
| Oxygen | 20.71 | | | | |
| Nitrogen | 78.19 | | | | |
| Carbon Dioxide | 0.16 | | | | |
| Methane | 0.0091 | | | | |
| Ethane | nd | | | | |
| Ethylene | nd | | | | |
| Propane | nd | | | | |
| Propylene | nd | | | | |
| Iso-butane | nd | | | | |
| N-butane | nd | | | | |
| Iso-pentane | nd | | | | |
| N-pentane | nd | | | | |
| Hexanes + | nd | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.000
Remarks:
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988493 **Job #:** 64390

**Sample Name:** GAS-Dup-02

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur LA

**Date Sampled:** 10/23/2025 **Date Received:** 10/28/2025 **Date Reported:** 11/25/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | nd | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.936 | | | | |
| Oxygen | 21.00 | | | | |
| Nitrogen | 77.85 | | | | |
| Carbon Dioxide | 0.051 | | | | |
| Methane | 0.159 | -32.1 | | | |
| Ethane | 0.0014 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.0004 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0002 | | | | |
| N-butane | nd | | | | |
| Iso-pentane | nd | | | | |
| N-pentane | nd | | | | |
| Hexanes + | nd | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 2
Specific gravity, calculated: 1.000
Remarks:
Methane carbon isotope data obtained online via GC-C-IRMS.
Insufficient methane concentration for δD analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**SEND DATA TO:**

Name: Scott Himes
Company: Environmental Resource Management
Address: 840 W Sam Houston Pkwy N
City/State 11600 Houston TX, 77024
Phone: 281-600-1000
Email: scott.himes@erm.com

**SEND INVOICE TO: (if different from SEND DATA TO:)**

Name:
Company:
Address:
City/State
Phone:
Email:

**Project:** Sulphur LA
**Location:** Sulphur Dome
**Purchase Order #:** 0801006
**Sampled By:** DS

***Select One:*** ☑ *Standard* ☐ *Priority* ☐ *Rush*

## Sample Description

| Container Number | Sample Identification | Date Sampled | Time | Analyses Requested: NG-1 | | | Comments |
|---|---|---|---|---|---|---|---|
| 1 | LDNR-17 | 10/21/20 | 0840 | X | | | |
| 1 | ~~LDNR-19~~ LDNR-17 | 10/21 | 0850 | | | | |
| 1 | LDNR-18 | 10/21 | 0830 | | | | |
| 2 | LDNR-21 | " " | 0820 | | | | |
| 2 | LDNR-22 | " " | 0810 | | | | |
| 2 | GAS DUP-01 | 10/20 | 1200 | | | | |
| 3 | LDNR-23 | 10/20 | 1350 | | | | |
| 3 | LDNR-03 | 10/20 | 1215 | | | | |
| 3 | LDNR-~~04~~ | 10/20 | 1220 | | | | |
| 4 | ~~DUPLICATE~~ LDNR5 | 10/20 | 1440 | | | | |

## Chain-of-Custody Record

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | DS | ERM | 10/22 | 1700 |
| Received by | David Bond | ISOTECH | 10/27 | 10:00 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

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Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

**SEND DATA TO:**

Name: Scott Himes
Company: ERM
Address: 840 W Sam Houston Pkwy N
City/State #600 Houston, TX, 77024
Phone: 281-600-1000
Email: Scott.Himes@erm.com

**SEND INVOICE TO: (if different from SEND DATA TO:)**

Name:
Company:
Address:
City/State
Phone:
Email:

**Project:** Sulphur, LA
**Location:** Sulphur Dome
**Purchase Order #:** 0801006
**Sampled By:** DS

***Select One:*** ☑ *Standard* ☐ *Priority* ☐ *Rush*

## Sample Description

| Container Number | Sample Identification | Date Sampled | Time | Analyses Requested: IV6-1 | | | Comments |
|---|---|---|---|---|---|---|---|
| 4 | LDNR-6 | 10/20/25 | 1330 | X | | | |
| 4 | LDNR-7 | 10/20/25 | 1400 | X | | | |
| 5 | PPG-4 | 10/20/25 | 1050 | X | | | |
| 5 | PPG-2 | 10/20/25 | 1100 | X | | | |
| 5 | PPG-7ABS | 10/23/25 | 13~~30~~ KM | X | | | |
| 6 | BKGRD-ATM | 10/23/25 | 0945 | X | | | |
| 6 | LDNR-1 | 10/22/25 | 1530 | X | | | |
| 6 | LDNR-27 | 10/23/25 | 1000 | X | | | |
| 7 | LDNR-28 | 10/23/25 | 1015 | X | | | |
| 7 | LDNR-10 | 10/23/25 | 1010 | X | | | |

## Chain-of-Custody Record

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | DSyd | ERM | 10/23/25 | 1700 |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

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# Analysis Request Form and Chain of Custody Record

*NOTE: Isotech does NOT accept gas samples containing hydrogen sulfide ($H_2S$, sour gas)*

## REPORT TO

| | |
|---|---|
| Name: Scott Himes | Address: #1600 Houston, TX, 77024 → City, State, ZIP: 840 W Sam Houston Pkwy N ↓ |
| Company: ERM | |
| Email: Scott.HIMES@ERM.com | Phone: 281-600-1000 |
| Copy To (continue below if necessary) | |

## INVOICE TO *if different than Report To*

| | |
|---|---|
| Name | Address |
| Company | City, State, ZIP |
| Email | Phone |
| Billing Information (W.O. #, P.O. #, etc; continue below if necessary) | |

| | |
|---|---|
| Project Name/No. | Sulphur Dome / 0801006 |
| Location | Sulphur, LA |
| Sampled By | DS |
| Select TAT: | O Standard O Priority O Rush |

## SAMPLE DESCRIPTION *Continue on next page if necessary*

| | Sample Name | Sample Date | Time | Container Type | ANALYSES: NG-1 | | | Notes or Special Instructions |
|---|---|---|---|---|---|---|---|---|
| #7 | LDNR-09 | 10/22/25 | 14:30 | ISB | X | | | |
| #8 | LDNR-19 | 10/23/25 | 10:45 | ISB | X | | | |
| #8 | GAS-DUP-02 | 10/23/25 | 9999 | ISB | X | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**Common Container Types**
**IST:** IsoTube
**ISB:** IsoBag
**CYL:** Cylinder
**LPT:** LP Tank
**ISF:** IsoFlask
**BTL:** Plastic or glass bottle
**X:** Other (please specify in notes)

## CHAIN OF CUSTODY RECORD

| Relinquished By | Company | Date/Time |
|---|---|---|
| DSyA | ERM | 10/23/25 1700 |
| Received By: Brody Tuggle / SR Isotech | Company | Date/Time: 10/28/25 915 |
| Relinquished By | Company | Date/Time |
| Received By | Company | Date/Time |

Notes, special instructions, general information:

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**Lab #:** 988577 **Job #:** 64402

**Sample Name:** LDNR-25

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/21/2025 10:50 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.01 | | | | | |
| Oxygen | 19.46 | | | | | |
| Nitrogen | 78.58 | | | | | |
| Carbon Dioxide | 0.91 | | | | | |
| Methane | 0.0359 | | | | 0.052 | 0.034 |
| Ethane | 0.0005 | | | | 0.00071 | 0.00089 |
| Ethylene | nd | | | | | |
| Propane | 0.0002 | | | | 0.0003 | 0.0006 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0002 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.39
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988578 **Job #:** 64402

**Sample Name:** LDNR-14

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/21/2025 11:40 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.41 | | | | | |
| Oxygen | 20.39 | | | | | |
| Nitrogen | 74.09 | | | | | |
| Carbon Dioxide | 3.95 | | | | | |
| Methane | 0.160 | | | | 0.046 | 0.031 |
| Ethane | 0.0018 | | | | 0.00055 | 0.00069 |
| Ethylene | nd | | | | | |
| Propane | 0.0011 | | | | 0.0003 | 0.0006 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0009 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.86
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988579 **Job #:** 64402

**Sample Name:** LDNR-08

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/21/2025 10:20 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.58 | | | | | |
| Oxygen | 17.99 | | | | | |
| Nitrogen | 75.27 | | | | | |
| Carbon Dioxide | 4.93 | | | | | |
| Methane | 0.231 | | | | 0.050 | 0.034 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.87
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988580 **Job #:** 64402

**Sample Name:** LDNR-13

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/21/2025 11:15 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.54 | | | | | |
| Oxygen | 21.72 | | | | | |
| Nitrogen | 72.59 | | | | | |
| Carbon Dioxide | 3.98 | | | | | |
| Methane | 0.176 | | | | 0.039 | 0.026 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.87
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988581 **Job #:** 64402

**Sample Name:** MW-3-200

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/21/2025 10:30 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.219 | | | | | |
| Oxygen | 2.16 | | | | | |
| Nitrogen | 9.55 | | | | | |
| Carbon Dioxide | 0.66 | | | | | |
| Methane | 87.37 | -47.13 | -191.5 | | 62 | 41 |
| Ethane | 0.0491 | | | | 0.037 | 0.046 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.62
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988582 **Job #:** 64402

**Sample Name:** MW-3-700

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/21/2025 12:30 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.940 | | | | | |
| Oxygen | 9.03 | | | | | |
| Nitrogen | 59.45 | | | | | |
| Carbon Dioxide | 1.07 | | | | | |
| Methane | 29.48 | -73.51 | -256.4 | | 20 | 13 |
| Ethane | 0.0321 | | | | 0.024 | 0.030 |
| Ethylene | nd | | | | | |
| Propane | 0.0028 | | | | 0.0020 | 0.0036 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.51
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988583 **Job #:** 64402

**Sample Name:** MW-3-500

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/20/2025 16:00 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.607 | | | | | |
| Oxygen | 0.081 | | | | | |
| Nitrogen | 36.43 | | | | | |
| Carbon Dioxide | 3.58 | | | | | |
| Methane | 58.68 | -44.27 | -153.4 | | 56 | 38 |
| Ethane | 0.566 | | | | 0.59 | 0.74 |
| Ethylene | nd | | | | | |
| Propane | 0.0261 | | | | 0.026 | 0.047 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0204 | | | | | |
| N-butane | 0.0010 | | | | | |
| Iso-pentane | 0.0007 | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0053 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.35
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988584 **Job #:** 64402

**Sample Name:** MW-1-700

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/22/2025 10:20 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.50 | | | | | |
| Oxygen | 2.64 | | | | | |
| Nitrogen | 64.81 | | | | | |
| Carbon Dioxide | 0.036 | | | | | |
| Methane | 31.01 | -78.29 | -288.2 | | 9.2 | 6.2 |
| Ethane | 0.0020 | | | | 0.00067 | 0.00084 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0002 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0013 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.77
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988585 **Job #:** 64402

**Sample Name:** MW-1-500

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/22/2025 12:30 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.16 | | | | | |
| Oxygen | 4.83 | | | | | |
| Nitrogen | 49.55 | | | | | |
| Carbon Dioxide | 0.27 | | | | | |
| Methane | 44.19 | -63.79 | -305.1 | | 15 | 9.7 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.77
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988586 **Job #:** 64402

**Sample Name:** MW-2-700

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/22/2025 15:20 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.54 | | | | | |
| Oxygen | 3.36 | | | | | |
| Nitrogen | 68.25 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 26.84 | -83.29 | -311.2 | | 8.3 | 5.6 |
| Ethane | 0.0044 | | | | 0.0015 | 0.0019 |
| Ethylene | 0.0008 | | | | | |
| Propane | 0.0009 | | | | 0.00029 | 0.00054 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0012 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.76
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988587 **Job #:** 64402

**Sample Name:** MW-2-200

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/23/2025 08:30 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.349 | | | | | |
| Oxygen | 2.75 | | | | | |
| Nitrogen | 13.91 | | | | | |
| Carbon Dioxide | 0.66 | | | | | |
| Methane | 82.28 | -50.90 | -190.8 | | 44 | 29 |
| Ethane | 0.0470 | | | | 0.027 | 0.034 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.65
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988588 **Job #:** 64402

**Sample Name:** MW-2-500

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/23/2025 09:50 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.35 | | | | | |
| Oxygen | 3.31 | | | | | |
| Nitrogen | 60.45 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 34.88 | -77.41 | -307.4 | | 10 | 6.9 |
| Ethane | 0.0045 | | | | 0.0015 | 0.0018 |
| Ethylene | nd | | | | | |
| Propane | 0.0006 | | | | 0.0002 | 0.0004 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0017 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988589 **Job #:** 64402

**Sample Name:** PPG-07B

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/23/2025 08:40 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.999 | | | | | |
| Oxygen | 5.55 | | | | | |
| Nitrogen | 60.60 | | | | | |
| Carbon Dioxide | 1.14 | | | | | |
| Methane | 31.70 | -42.97 | -153.9 | | 6.9 | 4.6 |
| Ethane | 0.0144 | | | | 0.0034 | 0.0042 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.88
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988590 **Job #:** 64402

**Sample Name:** Cottages

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/23/2025 08:00 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.58 | | | | | |
| Oxygen | 6.27 | | | | | |
| Nitrogen | 79.29 | | | | | |
| Carbon Dioxide | 11.55 | | | | | |
| Methane | 1.32 | -84.2 | | | 0.42 | 0.28 |
| Ethane | nd | | | | <0.0002 | <0.0003 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0004 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.84
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane carbon isotope data obtained online via GC-C-IRMS.
Insufficient methane concentration for δD analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988591 **Job #:** 64402

**Sample Name:** 019-1603

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/23/2025 07:30 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.56 | | | | | |
| Oxygen | 7.00 | | | | | |
| Nitrogen | 78.18 | | | | | |
| Carbon Dioxide | 12.67 | | | | | |
| Methane | 0.594 | -54.7 | | | 0.17 | 0.12 |
| Ethane | 0.0039 | | | | 0.0012 | 0.0015 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0004 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0008 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.85
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane carbon isotope data obtained online via GC-C-IRMS.
Insufficient methane concentration for δD analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988592 **Job #:** 64402

**Sample Name:** GW-Dup-01

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/23/2025 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.36 | | | | | |
| Oxygen | 4.20 | | | | | |
| Nitrogen | 59.32 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 35.12 | -77.57 | -311.6 | | 11 | 7.4 |
| Ethane | 0.0045 | | | | 0.0015 | 0.0019 |
| Ethylene | nd | | | | | |
| Propane | 0.0006 | | | | 0.0002 | 0.0004 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0018 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.81
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 988593 **Job #:** 64402

**Sample Name:** MW-1-200

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/23/2025 12:15 **Date Received:** 10/27/2025 **Date Reported:** 11/24/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.352 | | | | | |
| Oxygen | 1.52 | | | | | |
| Nitrogen | 16.12 | | | | | |
| Carbon Dioxide | 0.34 | | | | | |
| Methane | 81.63 | -56.54 | -200.0 | | 88 | 59 |
| Ethane | 0.0313 | | | | 0.037 | 0.046 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.33
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**SEND DATA TO:**

Name: Scott Himes
Company: ERM
Address: 840 W Sam Houston Pkwy N
City/State #600 Houston, TX 77024
Phone: 281-600-1000
Email: Scott.Himes@erm.com

**SEND INVOICE TO: (if different from SEND DATA TO:)**

Name:
Company:
Address:
City/State
Phone:
Email:

**Project:** Sulphur, LA
**Location:** Sulphur Dome
**Purchase Order #:** 0801006
**Sampled By:** TB

***Select One:*** ☑ *Standard* ☐ *Priority* ☐ *Rush*

## Sample Description

| Container Number | Sample Identification | Date Sampled | Time | Analyses Requested: BTEX | | | Comments |
|---|---|---|---|---|---|---|---|
| 1 | LDNR-25 | 10/21/25 | 10:50 | X | | | |
| | LDNR-14 | | 11:40 | X | | | |
| | LDNR-08 | | 10:20 | X | | | |
| | LDNR-13 | | 11:15 | X | | | |
| | MW-3-200 | | 10:30 | X | | | |
| | MW-3-700 | | 12:30 | X | | | |
| | MW-3-500 | 10/20/25 | 16:00 | X | | | |
| | MW-1-700 | 10/22/25 | 10:20 | X | | | |
| | MW-1-500 | 10/22/25 | 12:30 | X | | | |
| | MW-2-700 | 10/22/25 | 15:20 | X | | | |

## Chain-of-Custody Record

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | | | |
| Received by | David Bandy | ISOTECH | 10/27 | 10:00 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

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# Analysis Request Form and Chain of Custody Record

*NOTE: Isotech does NOT accept gas samples containing hydrogen sulfide ($H_2S$, sour gas)*

## REPORT TO

| Name | Address |
|---|---|
| Scott Himes | 840 W Sam Houston Pkwy N |
| **Company** | **City, State, ZIP** |
| ERM | #600, Houston, TX 77029 |
| **Email** | **Phone** |
| Scott.Himes@ERM.com | 281-600-1000 |
| Copy To (continue below if necessary) | |

## INVOICE TO *if different than Report To*

| Name | Address |
|---|---|
| **Company** | **City, State, ZIP** |
| **Email** | **Phone** |
| Billing Information (W.O. #, P.O. #, etc; continue below if necessary) | |

| | |
|---|---|
| Project Name/No. | Sulphur Dome / 0801006 |
| Location | Sulphur, LA |
| Sampled By | DS / TB |
| Select TAT: | O Standard O Priority O Rush |

## SAMPLE DESCRIPTION *Continue on next page if necessary*

| Sample Name | Sample Date | Time | Container Type | ANALYSES: DG-1 | | | Notes or Special Instructions |
|---|---|---|---|---|---|---|---|
| MW-2-200 | 10/23/25 | 0830 | ISF | | | | |
| MW-2-500 | | 0950 | | | | | |
| PPG-07B | | 0840 | | | | | |
| Cottages | | 0800 | | | | | |
| 019-1603 | | 0730 | | | | | |
| GW-DUP-01 | X | 9999 | X | | | | |

**Common Container Types**
**IST:** IsoTube
**ISB:** IsoBag
**CYL:** Cylinder
**LPT:** LP Tank
**ISF:** IsoFlask
**BTL:** Plastic or glass bottle
**X:** Other (please specify in notes)

## CHAIN OF CUSTODY RECORD

| Relinquished By | Company | Date/Time |
|---|---|---|
| Received By: Dustin Barding/SR Isotech | Company | Date/Time: 10/27/25 10:00 |
| Relinquished By | Company | Date/Time |
| Received By | Company | Date/Time |

Notes, special instructions, general information:
See back for additional sample(s)

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# Analysis Request Form and Chain of Custody Record

## SAMPLE DESCRIPTION *Continued from previous page*

| Sample Name | Sample Date | Time | Container Type | ANALYSES | | | Notes or Special Instructions |
|---|---|---|---|---|---|---|---|
| | | | | DG-1 | | | |
| MW-1-200 | 10/23/25 | 1215 | ISF | | | | |
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**Lab #:** 989086 **Job #:** 64456

**Sample Name:** 019-995

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/30/2025 10:45 **Date Received:** 11/03/2025 **Date Reported:** 11/20/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.72 | | | | | |
| Oxygen | 4.75 | | | | | |
| Nitrogen | 82.72 | | | | | |
| Carbon Dioxide | 10.60 | | | | | |
| Methane | 0.208 | | | | 0.055 | 0.037 |
| Ethane | 0.0007 | | | | 0.0002 | 0.0003 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0009 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.82
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 989087 **Job #:** 64456

**Sample Name:** 019-580

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/30/2025 11:05 **Date Received:** 11/03/2025 **Date Reported:** 11/20/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.65 | | | | | |
| Oxygen | 3.32 | | | | | |
| Nitrogen | 82.07 | | | | | |
| Carbon Dioxide | 11.32 | | | | | |
| Methane | 1.64 | -74.1 | -235 | | 0.45 | 0.30 |
| Ethane | 0.0040 | | | | 0.0012 | 0.0015 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0010 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.82
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane isotopes obtained online via GC-C-IRMS/GC-P-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 989088 **Job #:** 64456

**Sample Name:** 019-582

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Location:** Sulphur, LA

**Date Sampled:** 10/30/2025 11:30 **Date Received:** 11/03/2025 **Date Reported:** 11/20/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.78 | | | | | |
| Oxygen | 0.53 | | | | | |
| Nitrogen | 85.39 | | | | | |
| Carbon Dioxide | 11.17 | | | | | |
| Methane | 1.11 | -66.6 | | | 0.27 | 0.18 |
| Ethane | 0.0047 | | | | 0.0013 | 0.0016 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0009 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for δD analysis.
Methane carbon isotope data obtained online via GC-C-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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# Analysis Request Form and Chain of Custody Record

*NOTE: Isotech does NOT accept gas samples containing hydrogen sulfide ($H_2S$, sour gas)*

## REPORT TO

| Name | Address |
|---|---|
| Scott Himes | 840 W Sam Houston Pkwy N #600 |
| **Company** | **City, State, ZIP** |
| ERM | Houston, TX |
| **Email** | **Phone** |
| Scott.himes@erm.com | 281-600-1000 |
| Copy To (continue below if necessary) | |

## INVOICE TO *if different than Report To*

| Name | Address |
|---|---|
| **Company** | **City, State, ZIP** |
| **Email** | **Phone** |
| Billing Information (W.O. #, P.O. #, etc; continue below if necessary) | |

Project Name/No.: Sulphur Dome 080/006

Location: Sulphur, LA

Sampled By: TB

Select TAT: ✓ Standard  ○ Priority  ○ Rush

## SAMPLE DESCRIPTION *Continue on next page if necessary*

| Sample Name | Sample Date | Time | Container Type | ANALYSES: DG-N | | | Notes or Special Instructions |
|---|---|---|---|---|---|---|---|
| 019-995 | 10/30/25 | 10:45 | | X | | | |
| 019-580 | ↓ | 11:05 | | X | | | |
| 019-582 | ↓ | 11:30 | | X | | | |
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**Common Container Types**
**IST:** IsoTube
**ISB:** IsoBag
**CYL:** Cylinder
**LPT:** LP Tank
**ISF:** IsoFlask
**BTL:** Plastic or glass bottle
**X:** Other (please specify in notes)

## CHAIN OF CUSTODY RECORD

| Relinquished By | Company | Date/Time |
|---|---|---|
| Taylar Brown | ERM | 10/30/25 15:30 |
| **Received By** | **Company** | **Date/Time** |
| Brody Tuggle / SR Isotech | | 11/3/25 1000 |
| **Relinquished By** | **Company** | **Date/Time** |
| | | |
| **Received By** | **Company** | **Date/Time** |
| | | |

Notes, special instructions, general information:

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**Lab #:** 991567 **Job #:** 64708

**Sample Name:** LDNR-24

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** West Lake

**Location:** Sulphur Dome

**Date Sampled:** 11/17/2025 11:45 **Date Received:** 11/20/2025 **Date Reported:** 12/29/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0037 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.0279 | | | | |
| Oxygen | 0.15 | | | | |
| Nitrogen | 1.47 | | | | |
| Carbon Dioxide | 2.75 | | | | |
| Methane | 94.07 | -35.44 | -150.1 | | |
| Ethane | 0.922 | | | | |
| Ethylene | 0.0819 | | | | |
| Propane | 0.254 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0795 | | | | |
| N-butane | 0.0711 | | | | |
| Iso-pentane | 0.0347 | | | | |
| N-pentane | 0.0270 | | | | |
| Hexanes + | 0.0459 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 988
Specific gravity, calculated: 0.599
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 991568 **Job #:** 64708

**Sample Name:** LDNR-26

**Company:** Environmental Resources Management (ERM)

**Container:** IsoBag

**Field/Site Name:** West Lake

**Location:** Sulphur Dome

**Date Sampled:** 11/17/2025 12:45 **Date Received:** 11/20/2025 **Date Reported:** 12/29/2025

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | $\delta^{15}N$ ‰ |
|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | |
| Helium | 0.0047 | | | | |
| Hydrogen | nd | | | | |
| Argon | 0.179 | | | | |
| Oxygen | 2.23 | | | | |
| Nitrogen | 10.95 | | | | |
| Carbon Dioxide | 0.82 | | | | |
| Methane | 84.88 | -37.73 | -155.2 | | |
| Ethane | 0.753 | | | | |
| Ethylene | nd | | | | |
| Propane | 0.0623 | | | | |
| Propylene | nd | | | | |
| Iso-butane | 0.0787 | | | | |
| N-butane | 0.0035 | | | | |
| Iso-pentane | 0.0164 | | | | |
| N-pentane | 0.0003 | | | | |
| Hexanes + | 0.0078 | | | | |

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 879
Specific gravity, calculated: 0.627
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

**SEND DATA TO:**

Name: Scott Himes
Company: ERM
Address: 840 W. Sam Houston PKWY N. #600
City/State Houston TX
Phone: 713-834-4361
Email: Scott.Himes@ERM.com

**SEND INVOICE TO: (if different from SEND DATA TO:)**

Name:
Company:
Address:
City/State SAME
Phone:
Email:

**Project:** Westlake 080100610
**Location:** Sulphur Dome
**Purchase Order #:** 0801006
**Sampled By:** MS

***Select One:*** ☐ *Standard* ☐ *Priority* ☐ *Rush*

## Sample Description

| Container Number | Sample Identification | Date Sampled | Time | Analyses Requested: NG-1 | | | Comments |
|---|---|---|---|---|---|---|---|
| 1 | LDNR-24 | 11/17/25 | 1145 | ✓ | | | |
| 1 | LDNR-26 | 11/17/25 | 1245 | ✓ | | | |
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## Chain-of-Custody Record

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | MS | ERM | 11/17 | 1400 |
| Received by | Brody Tuggle / SR Isotech | | 11/20/25 | 1000 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

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**Lab #:** 992220 **Job #:** 64771

**Sample Name:** MW-3-200

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/18/2025 11:00 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.238 | | | | | |
| Oxygen | 3.13 | | | | | |
| Nitrogen | 10.09 | | | | | |
| Carbon Dioxide | 0.75 | | | | | |
| Methane | 85.74 | -47.27 | -188.9 | | 41 | 28 |
| Ethane | 0.0521 | | | | 0.027 | 0.034 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0004 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.65
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992221 **Job #:** 64771

**Sample Name:** MW-3-500

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/18/2025 09:30 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.813 | | | | | |
| Oxygen | 0.23 | | | | | |
| Nitrogen | 35.35 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 62.90 | -43.71 | -153.0 | | 26 | 17 |
| Ethane | 0.612 | | | | 0.27 | 0.34 |
| Ethylene | 0.0020 | | | | | |
| Propane | 0.0340 | | | | 0.014 | 0.026 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0165 | | | | | |
| N-butane | 0.0012 | | | | | |
| Iso-pentane | 0.0006 | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0358 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.71
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992222 **Job #:** 64771

**Sample Name:** 019-580

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/18/2025 15:30 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.68 | | | | | |
| Oxygen | 4.95 | | | | | |
| Nitrogen | 82.23 | | | | | |
| Carbon Dioxide | 10.97 | | | | | |
| Methane | 0.173 | | | | 0.043 | 0.029 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992223 **Job #:** 64771

**Sample Name:** MW-1-200

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/17/2025 16:05 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.348 | | | | | |
| Oxygen | 1.95 | | | | | |
| Nitrogen | 16.07 | | | | | |
| Carbon Dioxide | 0.41 | | | | | |
| Methane | 81.19 | -56.59 | -196.3 | | 91 | 61 |
| Ethane | 0.0317 | | | | 0.038 | 0.048 |
| Ethylene | nd | | | | | |
| Propane | 0.0002 | | | | 0.0003 | 0.0005 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.32
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992224 **Job #:** 64771

**Sample Name:** 019-995

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/18/2025 15:50 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.73 | | | | | |
| Oxygen | 4.04 | | | | | |
| Nitrogen | 84.27 | | | | | |
| Carbon Dioxide | 9.94 | | | | | |
| Methane | 0.0141 | | | | 0.0036 | 0.0024 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0009 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.82
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992225 **Job #:** 64771

**Sample Name:** MW-3-700

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/18/2025 14:10 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.23 | | | | | |
| Oxygen | 4.22 | | | | | |
| Nitrogen | 55.39 | | | | | |
| Carbon Dioxide | 0.044 | | | | | |
| Methane | 39.08 | -72.90 | -300.4 | | 11 | 7.7 |
| Ethane | 0.0278 | | | | 0.0089 | 0.011 |
| Ethylene | 0.0014 | | | | | |
| Propane | 0.0029 | | | | 0.00088 | 0.0016 |
| Propylene | 0.0005 | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0018 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.78
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992253 **Job #:** 64771

**Sample Name:** Cottages

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/18/2025 15:00 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.66 | | | | | |
| Oxygen | 4.39 | | | | | |
| Nitrogen | 79.58 | | | | | |
| Carbon Dioxide | 11.05 | | | | | |
| Methane | 3.31 | -90.3 | -248 | | 0.87 | 0.58 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0010 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane isotopes obtained online via GC-C-IRMS/GC-P-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992254 **Job #:** 64771

**Sample Name:** 019-1055

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/19/2025 11:10 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.72 | | | | | |
| Oxygen | 4.66 | | | | | |
| Nitrogen | 81.54 | | | | | |
| Carbon Dioxide | 11.64 | | | | | |
| Methane | 0.429 | -63.0 | | | 0.11 | 0.072 |
| Ethane | 0.0016 | | | | 0.00045 | 0.00056 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0015 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for δD analysis.
Methane carbon isotope data obtained online via GC-C-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992255 **Job #:** 64771

**Sample Name:** 019-582

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/19/2025 10:45 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.71 | | | | | |
| Oxygen | 3.52 | | | | | |
| Nitrogen | 81.12 | | | | | |
| Carbon Dioxide | 12.58 | | | | | |
| Methane | 1.06 | -69.5 | | | 0.25 | 0.17 |
| Ethane | 0.0038 | | | | 0.00098 | 0.0012 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0012 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.84
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for δD analysis.
Methane carbon isotope data obtained online via GC-C-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992256 **Job #:** 64771

**Sample Name:** MW-1-500

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/19/2025 08:45 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.16 | | | | | |
| Oxygen | 5.14 | | | | | |
| Nitrogen | 50.45 | | | | | |
| Carbon Dioxide | 0.26 | | | | | |
| Methane | 42.99 | -63.96 | -300.9 | | 15 | 10.0 |
| Ethane | 0.0005 | | | | 0.0002 | 0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0005 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.75
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992257 **Job #:** 64771

**Sample Name:** MW-1-700

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/19/2025 10:15 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.46 | | | | | |
| Oxygen | 4.29 | | | | | |
| Nitrogen | 64.58 | | | | | |
| Carbon Dioxide | 0.045 | | | | | |
| Methane | 29.62 | -77.53 | -288.6 | | 9.2 | 6.1 |
| Ethane | 0.0022 | | | | 0.00075 | 0.00094 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0015 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0008 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.78
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992258 **Job #:** 64771

**Sample Name:** MW-2-200

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/19/2025 14:20 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.318 | | | | | |
| Oxygen | 2.24 | | | | | |
| Nitrogen | 13.08 | | | | | |
| Carbon Dioxide | 0.65 | | | | | |
| Methane | 83.66 | -51.00 | -189.7 | | 59 | 40 |
| Ethane | 0.0505 | | | | 0.039 | 0.048 |
| Ethylene | nd | | | | | |
| Propane | 0.0002 | | | | 0.0002 | 0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0002 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.54
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992259 **Job #:** 64771

**Sample Name:** MW-2-700

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/19/2025 16:00 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.39 | | | | | |
| Oxygen | 4.00 | | | | | |
| Nitrogen | 67.21 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 27.39 | -82.87 | -303.1 | | 8.2 | 5.5 |
| Ethane | 0.0047 | | | | 0.0016 | 0.0019 |
| Ethylene | 0.0005 | | | | | |
| Propane | 0.0009 | | | | 0.00028 | 0.00052 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0014 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0014 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.77
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992260 **Job #:** 64771

**Sample Name:** 019-1603

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/20/2025 07:45 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.65 | | | | | |
| Oxygen | 2.98 | | | | | |
| Nitrogen | 80.29 | | | | | |
| Carbon Dioxide | 6.28 | | | | | |
| Methane | 8.80 | -95.12 | -314.4 | | 2.6 | 1.7 |
| Ethane | 0.0064 | | | | 0.0021 | 0.0026 |
| Ethylene | nd | | | | | |
| Propane | 0.0008 | | | | 0.0003 | 0.0005 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0013 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.77
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992261 **Job #:** 64771

**Sample Name:** GW-DUP

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/20/2025 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.43 | | | | | |
| Oxygen | 4.28 | | | | | |
| Nitrogen | 64.97 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 29.32 | -77.89 | -311.7 | | 8.9 | 6.0 |
| Ethane | 0.0040 | | | | 0.0013 | 0.0017 |
| Ethylene | nd | | | | | |
| Propane | 0.0006 | | | | 0.0002 | 0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0017 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0012 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.78
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 992262 **Job #:** 64771

**Sample Name:** MW-2-500

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Suplhur Dome

**Location:** Sulphur, LA

**Date Sampled:** 11/20/2025 09:30 **Date Received:** 11/25/2025 **Date Reported:** 01/09/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.42 | | | | | |
| Oxygen | 4.28 | | | | | |
| Nitrogen | 65.62 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 28.67 | -77.85 | -309.0 | | 8.6 | 5.7 |
| Ethane | 0.0039 | | | | 0.0013 | 0.0016 |
| Ethylene | nd | | | | | |
| Propane | 0.0005 | | | | 0.0002 | 0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0018 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0008 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.77
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**SEND DATA TO:**

Name: Scott Himes
Company: ERM
Address: 840 W. Sam Houston Pkwy. N.
City/State #600 Houston, TX 77024
Phone: (281) 600-1000
Email: Scott.Himes@ERM.com

**SEND INVOICE TO: (if different from SEND DATA TO:)**

Name:
Company:
Address:
City/State
Phone:
Email:

**Project:** 0801006
**Location:** Sulphur Dome
**Purchase Order #:**
**Sampled By:** TB

***Select One:*** ☑ *Standard* ☐ *Priority* ☐ *Rush*

## Sample Description

| Container Number | Sample Identification | Date Sampled | Time | Analyses Requested: DG-1 | | | Comments |
|---|---|---|---|---|---|---|---|
| 1 | MW-3-200 | 11/18/25 | 1100 | ✓ | | | |
| 1 | MW-3-500 | ↓ | 0930 | ✓ | | | |
| 1 | 019-580 | * | 1530 | ✓ | | | |
| 1 | MW-1-200 | 11/17/25 | 1605 | ✓ | | | |
| 1 | 019-995 | 11/18/25 | 1550 | ✓ | | | |
| 1 | MW-3-700 | ↓ | 1410 | ✓ | | | |
| 1 | Cottages | * | 1500 | ✓ | | | |
| 1 | 019-1055 | 11/19/25 | 1110 | ✓ | | | |
| 1 | 019-582 | ↓ | 1045 | ✓ | | | |
| 1 | MW-1-500 | * | 0845 | ✓ | | | |

## Chain-of-Custody Record

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | Kelly McNair | ERM | 11/20/25 | |
| Received by | Brody Tuggle / SR Isotech | | 11/21/25 | 945 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

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**SEND DATA TO:**

Name: Scott Himes
Company: ERM
Address: 840 W. Sam Houston Pkwy. N.
City/State #600 Houston, TX 77024
Phone: (281) 600-1000
Email: Scott.Himes@Erm.com

**SEND INVOICE TO: (if different from SEND DATA TO:)**

Name:
Company:
Address:
City/State
Phone:
Email:

**Project:** 0801006
**Location:** Sulphur Dome
**Purchase Order #:**
**Sampled By:** TB

***Select One:*** ☑ *Standard* ☐ *Priority* ☐ *Rush*

## Sample Description

| Container Number | Sample Identification | Date Sampled | Time | Analyses Requested: DG-1 | | | Comments |
|---|---|---|---|---|---|---|---|
| 2 | MW-1-700 | 11/19/25 | 1015 | ✓ | | | |
| 2 | MW-2-200 | ↓ | 1420 | ✓ | | | |
| 2 | MW-2-700 | ↓ | 1600 | ✓ | | | |
| 2 | 019-1603 | 11/20/25 | 0745 | ✓ | | | |
| 2 | GW-DUP | ↓ | 9999 | ✓ | | | |
| 2 | MW-2-500 | ↓ | 0930 | ✓ | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Chain-of-Custody Record

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | Kelly McNair | ERM | 11/20/25 | |
| Received by | Brody Tuggle / SR Isotech | | 11/25/25 | 945 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

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**Lab #:** 995583 **Job #:** 65069

**Sample Name:** MW-1-200

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/15/2025 15:40 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.345 | | | | | |
| Oxygen | 1.76 | | | | | |
| Nitrogen | 15.82 | | | | | |
| Carbon Dioxide | 0.40 | | | | | |
| Methane | 81.64 | -56.52 | -195.8 | | 92 | 61 |
| Ethane | 0.0317 | | | | 0.038 | 0.048 |
| Ethylene | nd | | | | | |
| Propane | 0.0002 | | | | 0.0003 | 0.0005 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0012 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.33
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995584 **Job #:** 65069

**Sample Name:** 019-580

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/16/2025 07:45 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.72 | | | | | |
| Oxygen | 4.45 | | | | | |
| Nitrogen | 82.78 | | | | | |
| Carbon Dioxide | 10.98 | | | | | |
| Methane | 0.0688 | | | | 0.017 | 0.012 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0061 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995585 **Job #:** 65069

**Sample Name:** Cottages

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/16/2025 08:50 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.64 | | | | | |
| Oxygen | 7.51 | | | | | |
| Nitrogen | 78.11 | | | | | |
| Carbon Dioxide | 10.70 | | | | | |
| Methane | 2.03 | -85.2 | -201 | | 0.53 | 0.36 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | nd | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.82
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane isotopes obtained online via GC-C-IRMS/GC-P-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995586 **Job #:** 65069

**Sample Name:** MW-1-700

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/16/2025 14:00 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.42 | | | | | |
| Oxygen | 2.91 | | | | | |
| Nitrogen | 66.22 | | | | | |
| Carbon Dioxide | 0.038 | | | | | |
| Methane | 29.40 | -78.87 | -284.1 | | 8.8 | 5.9 |
| Ethane | 0.0021 | | | | 0.00070 | 0.00088 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0014 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0008 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.79
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995587 **Job #:** 65069

**Sample Name:** MW-3-200

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/16/2025 16:25 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.258 | | | | | |
| Oxygen | 3.64 | | | | | |
| Nitrogen | 10.82 | | | | | |
| Carbon Dioxide | 0.62 | | | | | |
| Methane | 84.61 | -47.11 | -197.6 | | 37 | 25 |
| Ethane | 0.0492 | | | | 0.023 | 0.029 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0013 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.69
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995588 **Job #:** 65069

**Sample Name:** MW-1-500

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/16/2025 11:00 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.24 | | | | | |
| Oxygen | 4.29 | | | | | |
| Nitrogen | 56.52 | | | | | |
| Carbon Dioxide | 0.16 | | | | | |
| Methane | 37.79 | -64.81 | -307.8 | | 14 | 9.2 |
| Ethane | nd | | | | <0.0001 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0010 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.73
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995589 **Job #:** 65069

**Sample Name:** MW-3-700

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/17/2025 14:15 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.20 | | | | | |
| Oxygen | 4.54 | | | | | |
| Nitrogen | 52.84 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 41.38 | -72.36 | -318.7 | | 14 | 9.1 |
| Ethane | 0.0274 | | | | 0.0098 | 0.012 |
| Ethylene | 0.0027 | | | | | |
| Propane | 0.0029 | | | | 0.00098 | 0.0018 |
| Propylene | 0.0005 | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0029 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.76
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995590 **Job #:** 65069

**Sample Name:** 019-995

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/17/2025 11:55 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.82 | | | | | |
| Oxygen | 8.62 | | | | | |
| Nitrogen | 80.87 | | | | | |
| Carbon Dioxide | 8.68 | | | | | |
| Methane | 0.0195 | | | | 0.0056 | 0.0038 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0008 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995591 **Job #:** 65069

**Sample Name:** 019-1055

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/17/2025 11:25 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.75 | | | | | |
| Oxygen | 4.03 | | | | | |
| Nitrogen | 82.74 | | | | | |
| Carbon Dioxide | 11.20 | | | | | |
| Methane | 0.270 | | | | 0.068 | 0.045 |
| Ethane | 0.0007 | | | | 0.0002 | 0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0011 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995592 **Job #:** 65069

**Sample Name:** 019-1603

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/17/2025 11:00 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.69 | | | | | |
| Oxygen | 6.79 | | | | | |
| Nitrogen | 82.06 | | | | | |
| Carbon Dioxide | 4.36 | | | | | |
| Methane | 5.09 | -94.96 | -331.0 | | 1.5 | 0.98 |
| Ethane | 0.0043 | | | | 0.0014 | 0.0017 |
| Ethylene | nd | | | | | |
| Propane | 0.0009 | | | | 0.0003 | 0.0005 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0013 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.79
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995593 **Job #:** 65069

**Sample Name:** MW-3-500

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/17/2025 09:25 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.818 | | | | | |
| Oxygen | 1.35 | | | | | |
| Nitrogen | 31.76 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 65.31 | -43.87 | -157.3 | | 27 | 18 |
| Ethane | 0.653 | | | | 0.29 | 0.36 |
| Ethylene | 0.0023 | | | | | |
| Propane | 0.0356 | | | | 0.015 | 0.027 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0160 | | | | | |
| N-butane | 0.0012 | | | | | |
| Iso-pentane | 0.0006 | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0528 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.73
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995594 **Job #:** 65069

**Sample Name:** MW-2-500

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/18/2025 16:00 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.33 | | | | | |
| Oxygen | 9.47 | | | | | |
| Nitrogen | 61.18 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 28.01 | -76.50 | -302.2 | | 8.1 | 5.4 |
| Ethane | 0.0038 | | | | 0.0012 | 0.0015 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0001 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0013 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0011 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.79
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995595 **Job #:** 65069

**Sample Name:** 019-582

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/16/2025 08:00 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.72 | | | | | |
| Oxygen | 4.25 | | | | | |
| Nitrogen | 82.34 | | | | | |
| Carbon Dioxide | 11.66 | | | | | |
| Methane | 0.0273 | | | | 0.0069 | 0.0046 |
| Ethane | nd | | | | <0.0002 | <0.0002 |
| Ethylene | nd | | | | | |
| Propane | nd | | | | <0.0002 | <0.0003 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0010 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.84
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995596 **Job #:** 65069

**Sample Name:** GW-DUP

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/18/2025 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.35 | | | | | |
| Oxygen | 10.32 | | | | | |
| Nitrogen | 61.19 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 27.14 | -76.91 | -302.6 | | 8.2 | 5.5 |
| Ethane | 0.0038 | | | | 0.0012 | 0.0016 |
| Ethylene | nd | | | | | |
| Propane | 0.0007 | | | | 0.0002 | 0.0004 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0014 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0011 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995597 **Job #:** 65069

**Sample Name:** MW-2-700

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/18/2025 09:35 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 1.45 | | | | | |
| Oxygen | 3.10 | | | | | |
| Nitrogen | 66.27 | | | | | |
| Carbon Dioxide | nd | | | | | |
| Methane | 29.18 | -81.56 | -308.5 | | 10 | 6.8 |
| Ethane | 0.0047 | | | | 0.0018 | 0.0023 |
| Ethylene | 0.0005 | | | | | |
| Propane | 0.0011 | | | | 0.00038 | 0.00070 |
| Propylene | nd | | | | | |
| Iso-butane | 0.0013 | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0006 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.75
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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**Lab #:** 995598 **Job #:** 65069

**Sample Name:** MW-2-200

**Company:** Environmental Resources Management (ERM)

**Container:** IsoFlask

**Field/Site Name:** Sulphur Dome

**Date Sampled:** 12/18/2025 11:30 **Date Received:** 12/23/2025 **Date Reported:** 01/23/2026

| Component | Chemical mol% | $\delta^{13}C$ ‰ | $\delta D$ ‰ | $\delta^{18}O$ ‰ | Dissolved gas cc/L | Dissolved gas mg/L |
|---|---|---|---|---|---|---|
| Carbon Monoxide | nd | | | | | |
| Helium | na | | | | | |
| Hydrogen | nd | | | | | |
| Argon | 0.350 | | | | | |
| Oxygen | 2.16 | | | | | |
| Nitrogen | 13.74 | | | | | |
| Carbon Dioxide | 0.62 | | | | | |
| Methane | 83.09 | -51.39 | -191.5 | | 50 | 34 |
| Ethane | 0.0427 | | | | 0.028 | 0.035 |
| Ethylene | nd | | | | | |
| Propane | 0.0003 | | | | 0.0002 | 0.0004 |
| Propylene | nd | | | | | |
| Iso-butane | nd | | | | | |
| N-butane | nd | | | | | |
| Iso-pentane | nd | | | | | |
| N-pentane | nd | | | | | |
| Hexanes + | 0.0003 | | | | | |

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.60
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

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# Analysis Request Form and Chain of Custody Record

*NOTE: Isotech does NOT accept gas samples containing hydrogen sulfide ($H_2S$, sour gas)*

## REPORT TO

| Name | Address |
|---|---|
| Scott Himes | 840 W. Sam Houston Pkwy N. |
| Company | City, State, ZIP |
| ERM | #600, Houston, TX, 77024 |
| Email | Phone |
| Scott.Himes@ERM.com | 281-600-1000 |
| Copy To (continue below if necessary) | |

## INVOICE TO *if different than Report To*

| Name | Address |
|---|---|
| | |
| Company | City, State, ZIP |
| | |
| Email | Phone |
| | |
| Billing Information (W.O. #, P.O. #, etc; continue below if necessary) | |

| | |
|---|---|
| Project Name/No. | 0801006 |
| Location | Sulphur Dome |
| Sampled By | KAM |
| Select TAT: | ⊘ Standard  ○ Priority  ○ Rush |

## SAMPLE DESCRIPTION *Continue on next page if necessary*

| Sample Name | Sample Date | Time | Container Type | ANALYSES: 06-17 | Notes or Special Instructions |
|---|---|---|---|---|---|
| MW-1-200 | 12/15/25 | 1540 | | X | |
| 019-580 | 12/16/25 | 0745 | | X | |
| Cottages | 12/16/25 | 0850 | | X | |
| MW-1-700 | 12/16/25 | 1400 | | X | |
| MW-3-200 | 12/16/25 | 1625 | | X | |
| MW-1-500 | 12/16/25 | 1100 | | X | |

**Common Container Types**
**IST:** IsoTube
**ISB:** IsoBag
**CYL:** Cylinder
**LPT:** LP Tank
**ISF:** IsoFlask
**BTL:** Plastic or glass bottle
**X:** Other (please specify in notes)

## CHAIN OF CUSTODY RECORD

| Relinquished By | Company | Date/Time |
|---|---|---|
| Zedric Capus | ERM | 12/18/25 |
| **Received By** | **Company** | **Date/Time** |
| Brody Tuggle / SR Isotech | 1000 | 12/23/25 |
| Relinquished By | Company | Date/Time |
| | | |
| Received By | Company | Date/Time |
| | | |

Notes, special instructions, general information:

ISOTECH
a Stratum Reservoir brand

# Analysis Request Form and Chain of Custody Record

NOTE: Isotech does NOT accept gas samples containing hydrogen sulfide ($H_2S$, sour gas)

## REPORT TO

| | |
|---|---|
| Name: Scott Himes | Address: 840 W. Sam Houston Pkwy N. #600 |
| Company: ERM | City, State, ZIP: Houston, TX, 77024 |
| Email: scott.himes@ERM.com | Phone: |
| Copy To (continue below if necessary) | |

## INVOICE TO *If different than Report To*

| | |
|---|---|
| Name: | Address: |
| Company: | City, State, ZIP: |
| Email: | Phone: |
| Billing Information (W.O. #, P.O. #, etc; continue below if necessary) | |

| | |
|---|---|
| Project Name/No. | 0801006 |
| Location | Sulphur Dome |
| Sampled By | KAM |
| Select TAT: | O Standard O Priority O Rush |

## SAMPLE DESCRIPTION *Continue on next page if necessary*

| Sample Name | Sample Date | Time | Container Type | ANALYSES | Notes or Special Instructions |
|---|---|---|---|---|---|
| MW-3-700 | 12/17/25 | 1415 | | | |
| 019-995 | | 1155 | | | |
| 019-1055 | | 1125 | | | |
| 019-1603 | | 1100 | | | |
| MW-3-500 | V | 0925 | | | |
| MW-2-500 | 12/18/25 | 1600 | | | |

**Common Container Types**
**IST:** IsoTube
**ISB:** IsoBag
**CYL:** Cylinder
**LPT:** LP Tank
**ISF:** IsoFlask
**BTL:** Plastic or glass bottle
**X:** Other (please specify in notes)

## CHAIN OF CUSTODY RECORD

| | | |
|---|---|---|
| Relinquished By: Cedric Campos | Company: ERM | Date/Time: 12/18/25 |
| Received By: Brody Tuggle / SR Isotech | Company: | Date/Time: 12/23/25 1000 |
| Relinquished By: | Company: | Date/Time: |
| Received By: | Company: | Date/Time: |

Notes, special instructions, general information:

ISOTECH
a Stratum Reservoir brand

# Analysis Request Form and Chain of Custody Record

**SAMPLE DESCRIPTION** *Continued from previous page*

| Sample Name | Sample Date | Time | Container Type | ANALYSES: DG-1 | Notes or Special Instructions |
|---|---|---|---|---|---|
| 019-SB2 | 12/16/25 | 0800 | | X | |
| GW-DUP | 12/18/25 | 9999 | | X | |
| MW-2-700 | ↓ | 0935 | | | |
| MW-2-200 | ↓ | 1130 | | | |
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# ATTACHMENT 2 FIELD NOTES

10120125 Sulphur Dome 0801006

Water levels DTW

| | |
|---|---|
| MW-3 200 | 53.75' |
| MW-3 -500 | 60.08' |
| MW-3 -700 | 59.~~57~~63' |
| MW-1 200 | 23.21' |
| MW-1 -500 | 56.18' |
| MW-1 -700 | 55.58' |
| MW-2 -290 | 47.95' |
| MW-2 -600 | 60.51' |
| MW-2 -700 | 60.55' |

MW-3-500
CO - 0 ppm
LEL - 0%
0.0 - ppm LEL
20.9% - $O_2$

FB-102025 collected at 16:10

Scale: 1 square = FB



MW-3-500 Initial DTW: 60.01' 10/20/25

| Time | pH | °C Temp | mg/L DO | µS/cm SC | mV ORP | ntu Turb | mL/min Flow | # DTW |
|---|---|---|---|---|---|---|---|---|
| 1450 | 8.28 | 31.62 | 6.47 | 54886 | -200.0 | 8.19 | 300 | 60.05 |
| 1455 | 8.08 | 32.44 | 0.741 | 55988 | -285.5 | 12.9 | 300 | 60.02 |
| 1500 | 8.19 | 33.20 | 0.112 | 56580 | -338.8 | 15.8 | 300 | 60.02 |
| 1505 | 8.37 | 32.78 | 0.070 | 55547 | -352.8 | 16.9 | 300 | 60.03 |
| 1510 | 8.49 | 31.84 | 0.044 | 54194 | -358.3 | 16.9 | 300 | 60.02 |
| 1515 | 8.59 | 31.26 | 0.039 | 54223 | -355.4 | 17.1 | 300 | 60.01 |
| 1520 | 8.71 | 30.97 | 0.059 | 53302 | -355.9 | 15.7 | 400 | 60.02 |
| 1525 | 8.93 | 32.19 | 0.091 | 53833 | -340.0 | 14.5 | 400 | 60.00 |
| 1530 | 7.70 | 34.98 | 0.045 | 61100 | -373.1 | 21.8 | 400 | 60.02 |
| 1535 | 7.27 | 36.15 | 0.070 | 63260 | -376.7 | 31.8 | 400 | 60.02 |

CONTINUED →

Scale: 1 square = FB

Rite in the Rain

0801006

MW-3-500 cont. Sulphur Dome 10/20/25

| Time | pH | Temp | DO | SC | ORP | Turb | Flow | DTW |
|---|---|---|---|---|---|---|---|---|
| 1540 | 6.99 | 36.06 | 0.069 | 6323 | -373.8 | 19.8 | 400 | 60.02 |
| 1545 | 6.86 | 36.19 | 0.120 | 6320 | -358.4 | 15.0 | 400 | 60.02 |
| 1550 | 6.78 | 36.28 | 1.41 | 6317 | -314.4 | 10.7 | 400 | 60.02 |
| 1555 | 6.74 | 36.21 | 1.52 | 6327 | -310.7 | 9.54 | 400 | 60.02 |

$H_2S$ Test - 5.0 mg/L End of Day
Sample time - 16:00
Purged ~5 gal





Sulphur Dome 10/21/25
080006

7:00 - Arrive on site, check in
Taylar B.
Zedric C.
Kelly M.
David S.

8:00 - Zedric + Taylar head to MW-3-200, set up

MW-3-200
Pacl Meter —

CO: 0 ppm
LEL: 0 %LEL
$H_2S$: 0.0 ppm
$O_2$: 20.9 %

FB-102125 collected at 15:30

MW-3-200 Initial DTW: 52.84 TD 10/21/25

| Time | pH | Temp °C | DO mg/L | Custom SC | ORP mV | Turb NTU | Flow rate mL/min | Pt Elev. DTW |
|---|---|---|---|---|---|---|---|---|
| 0935 | | | | | | | | |
| 0935 | 8.876 | 31.69 | 1.596 | 671.6 | -212.1 | 14.8 | ICD | 59.7 |
| 0940 | 8.784 | 31.28 | 0.468 | 697.0 | -234.1 | 30.6 | " | 55.6 |
| 0940 | 9.013 | 31.29 | 0.287 | 678.7 | -229.4 | 17.8 | " | 56.55 |
| 0945 | 8.481 | 31.35 | 0.255 | 615.0 | -221.5 | 77.5 | " | 56.95 |
| 0950 | 8.464 | 31.38 | 0.242 | 612.7 | -216 | 81.6 | " | 56.76 |
| 0955 | 8.282 | 31.55 | 0.255 | 590.5 | -222.4 | 68.0 | " | 57.29 |
| 1000 | 8.315 | 31.74 | 0.217 | 617.1 | -224.1 | 60.3 | " | 57.49 |
| 1005 | 8.328 | 31.5 | 0.185 | 619.2 | -225.7 | 49.4 | " | 57.70 |
| 1010 | 8.374 | 32.28 | 0.159 | 616.7 | -228 | 40.0 | " | |
| 1015 | | | 0.148 | | | | | |

Sulphur Dome 10/21/25 

0801006

MW-3-200 Sample time 10:30

Purged ~2.25 gal

MW-3-700

POLI Meter—

CO- 0 ppm

LEL- 0%

$H_2S$- 0.0 ppm

$O_2$- 20.9%

MW-3-200

$H_2S$ Test- 0.0mg/L

Lunch Break 13:00-14:00

MW-1-700

POLI Meter

CO- 0 ppm

LEL- 0% LEL

$H_2S$- 0.0 ppm

$O_2$— 20.9%

Scale: 1 square =

Rite in the Rain

## MW-3-700 Initial DTW: 59.42' 10/21/25

| Time | pH | °C Temp | mg/L DO | µS SC | mV ORP | NTU Turb | mL/min Flow | ft DTW |
|---|---|---|---|---|---|---|---|---|
| 1150 | 8.52 | 36.71 | 0.932 | 6155 | -178.3 | 2.49 | 500 | 59.64 |
| 1155 | 8.53 | 37.17 | 0.411 | 6600 | -209.0 | 4.99 | 500 | 59.72 |
| 1200 | 8.45 | 37.95 | 0.302 | 6585 | -223.7 | 5.92 | 500 | 59.72 |
| 1205 | 8.10 | 38.08 | 0.245 | 6594 | -243.3 | 9.79 | 500 | 59.80 |
| 1210 | 7.97 | 38.06 | 0.162 | 6654 | -265.0 | 34.2 | 500 | 59.70 |
| 1215 | 8.31 | 38.10 | 0.143 | 6615 | -269.4 | 37.6 | 500 | 59.76 |
| 1220 | 8.06 | 38.06 | 0.131 | 6666 | -266.3 | 52.0 | 500 | 59.80 |

Sample time - 12:30
Purged 4 gal
$H_2S$ Test - 0.0 mg/L

Square = TB

Pump issues, returning on 10/22

Sulphur Dome

## MW-1-700 Initial DTW: 55.34' 10/[illegible]/25

| Time | pH | °C Temp | mg/L DO | mS/cm SC | mV ORP | NTU Turb | mL/min Flow | (ft) DTW |
|---|---|---|---|---|---|---|---|---|
| 920 | 9.35 | 29.98 | 1.05 | 817.9 | -12.4 | 32.0 | 300 | 55.56 |
| 925 | 9.36 | 29.40 | 0.68 | 815.8 | -59.0 | 29.4 | 300 | 55.76 |
| 930 | 9.35 | 29.59 | 0.52 | 817.2 | -96.5 | 25.4 | 300 | 55.75 |
| 935 | 9.35 | 29.82 | 0.43 | 815.3 | -120.9 | 22.9 | 300 | 55.76 |
| 940 | 9.35 | 29.85 | 0.35 | 814.8 | -140.0 | 21.4 | 300 | 55.76 |
| 945 | 9.35 | 29.97 | 0.31 | 816.0 | -154.0 | 19.7 | 300 | 55.74 |
| 950 | 9.36 | 30.21 | 0.28 | 815.4 | -166.4 | 18.6 | 300 | 55.73 |
| 955 | 9.36 | 30.19 | 0.26 | 820.2 | -179.0 | 17.5 | 300 | 55.74 |
| 1000 | 9.37 | 30.81 | 0.25 | 820.4 | -191.4 | 23.9 | 400 | 55.90 |

Continued ↵

Scale: 1 square = [illegible]

Rotten on Rec

080006

# Sulphur Dome 10/22/25

0801006

700-Arrive on site, check in
Travel to MW-1-700 to set up new pump

EB10222S collected at 8:25
Rinsate collected at 9:00

MW-1-500 POU Meter-
CO- 0 ppm
LEL- 0%
$H_2S$- 0.0 ppm
$O_2$- 20.9%

MW-1-200 POU Meter
CO- 0 ppm
LEL- 0%
$H_2S$- 0.0 ppm
$O_2$- 20.9%

Lunch 13:00-14:00

Scale: 1 square = 1ft



10/22/25 Sulphur Dome

MW-1-700 CONTINUED

| Time | pH | Temp | DO | SC | ORP | Turb | Elv | DTW |
|---|---|---|---|---|---|---|---|---|
| 1005 | 9.87 | 32.06 | 0.19 | 824.1 | -208.2 | 18.1 | 400 | 55.92 |
| 1010 | 9.38 | 32.03 | 0.19 | 823.2 | -219.5 | 15.4 | 400 | 55.89 |
| 1015 | 9.40 | 32.01 | 0.13 | 825.4 | -228.9 | 14.9 | 400 | 55.89 |

Sample time - 10:20
Purged ~ 4 gal
$H_2S$ Test - Not Measured

Scale: 1 square = 1ft

Rite in the Rain

MW-1-500 10/22/25 (Sulphur Dome) Flow (L) = .48 L/min DTW (ft) = 56.63'

| Time | pH | (°C) Temp | (mg/L) DO | (mS/cm) SC | (mV) ORP | (NTU) Turb | (mL/min) Flow | (ft) DTW |
|---|---|---|---|---|---|---|---|---|
| 1145 | 8.32 | 30.64 | 0.529 | 301.0 | -115.7 | 27.7 | 480 | 56.35 |
| 1150 | 8.34 | 30.89 | 0.344 | 300.2 | -132.9 | 23.5 | 480 | 56.35 |
| 1155 | 8.37 | 31.07 | 0.280 | 302.2 | -146.4 | 20.5 | 480 | ↓ |
| 1200 | 8.37 | 31.22 | 0.248 | 299.8 | -154.6 | 18.9 | 480 | ↓ |
| 1205 | 8.39 | 31.25 | 0.232 | 300.7 | -161.0 | 16.9 | 480 | ↓ |
| 1210 | 8.40 | 31.34 | 0.219 | 301.4 | -163.9 | 15.9 | 480 | ↓ |
| 1215 | 8.41 | 31.40 | 0.211 | 302.7 | -166.0 | 15.7 | 480 | ↓ |

Sample Time: 1230
Purged: 3.5 gal

$H_2S$ Test - 0.0 mg/L

Scale: 1 square =

Sulphur Dome

MW-2-700 Initial DTW: 60.44' 10/22/25

| Time | pH | °C Temp | mg/l DO | mS/cm SC | mV ORP | Turb | mL/min Flow | ft DTW |
|---|---|---|---|---|---|---|---|---|
| 1450 | 9.73 | 30.81 | 0.37 | 900.3 | -226.7 | 8.86 | 500 | 60.57 |
| 1455 | 9.77 | 30.75 | 0.32 | 902.7 | -235.9 | 9.81 | 500 | 60.55 |
| 1500 | 9.77 | 30.86 | 0.28 | 897.0 | -240.0 | 7.82 | 500 | 60.51 |
| 1505 | 9.77 | 30.88 | 0.26 | 883.9 | -242.8 | 8.12 | 500 | 60.51 |
| 1510 | 9.79 | 30.88 | 0.24 | 883.0 | -246.3 | 9.30 | 500 | 60.51 |
| 1515 | 9.80 | 30.98 | 0.23 | 884.5 | -251.0 | 7.66 | 500 | 60.51 |

$H_2S$ Test - Approx 0.2 mg/L

Sample time - 15:20
Purged w 4 gal

Scale: 1 square =

0801006

Sulphur Dome 10/22/25

PQL Meter
MW-2-700
CO-0 ppm
LEL-0%
$H_2S$-0.0 ppm
$O_2$-20.9%

End of Day

10/23/25
7:00 Arrive, check in

MW-2-200 PQL Meter
CO-0 ppm
LEL-0%
$H_2S$-0.0 ppm
$O_2$-20.9%

FB-102325 collected at 8:20

Scale: 1 square = TB



Sulphur Dome 10/23/25

| Time | pH | Temp °C | DO mg/L | SC µS/cm | ORP mV | Turb NTU | Flow ml/min | Ft DTW |
|---|---|---|---|---|---|---|---|---|
| Initial DTW: 49.99 | | | | | | | | |
| 7:55 | 8.248 | 26.81 | 0.533 | 334.1 | -204.1 | 31.4 | 320 | 50.43 |
| 8:00 | 8.281 | 26.67 | 0.376 | 330.7 | -208.7 | 43.6 | 320 | 50.74 |
| 8:05 | 8.317 | 26.66 | 0.247 | 324.1 | -211.6 | 51.6 | 320 | 50.88 |
| 8:10 | 8.332 | 26.83 | 0.197 | 335.1 | -217. | 37.9 | 320 | 51.15 |
| 8:15 | 8.302 | 26.75 | 0.174 | 337.2 | -214.6 | 29.8 | 320 | 51.22 |

Sample time 8:20
Purged: 2.5 gal

$H_2S$ Test: 0.0 mg/L

Scale: 1 square = ZC

Rite in the Rain

Sulphur Dome 10/23/25

MW-Z-500 PoLL Meter-

CO-0 ppm

LEL-0%

$H_2S$-0.0 ppm

$O_2$-20.9%

Scale: 1 square = TB



Sulphur Dome 10/23/25

MW-Z-500 Initial DTW: 60.62'

GW+DUP-01 collected here

MS, +MSD

| Time | pH | Temp °C | DO mg/L | SC µs/cm | ORP mV | Turb NTU | Flo mL/min | DTW ft |
|---|---|---|---|---|---|---|---|---|
| 915 | 10.64 | 28.26 | 0.61 | 477.1 | -231.7 | 16.6 | 400 | 60.67 |
| 920 | 10.63 | 28.50 | 0.43 | 434.1 | -239.2 | 17.3 | 400 | 60.67 |
| 925 | 10.61 | 28.67 | 0.37 | 434.0 | -243.7 | 16.6 | 400 | 60.67 |
| 930 | 10.60 | 28.66 | 0.35 | 434.9 | -246.1 | 14.0 | 400 | 60.67 |
| 935 | 10.60 | 28.59 | 0.33 | 433.3 | -247.9 | 11.8 | 400 | 60.67 |
| 940 | 10.59 | 28.72 | 0.30 | 430.2 | -249.6 | 11.2 | 400 | 60.67 |

Sample Time: 9:50

Purged ~3 gal

$H_2S$ Test: 0.0 mg/L

Scale: 1 square = TB

Rite in the Rain

Sulphur Dome

10/23/25

MW-1-20D  D.T.W = 23.27

| Time | pH | Temp | DO | SC | ORP | Turb | Flow | DTW |
|---|---|---|---|---|---|---|---|---|
| 1145 | 8.722 | 29.35 | 0.474 | 511.8 | 0-148.0 | 2.25 | 230 | 23.33 |
| 1150 | 8.672 | 29.29 | 0.353 | 511.4 | -185.1 | 2.45 | 230 | 23.33 |
| 1155 | 8.606 | 29.20 | 0.317 | 519.5 | -117.4 | 1.82 | " | " |
| 1200 | 8.550 | 29.05 | 0.273 | 528.3 | -20.4 | 1.34 | " | " |
| 1210 | | | | | | | | |

1215 sample time
Purged 1.5 gal
End of Sampling Event

H2S Test: 0.0 mg/L



0801006

Scale 1 square = TB

Sulphur Dome 10/30/25

10:00 - Check in with Zedric C, obtain work permit

10:30 - Travel to industrial wells to samples

10:45 - Sample 019-995 (#12)
UltraMeter

SC - 384.1 uS
TDS - 257.7 ppm
ORP - -1mV
pH - 6.66
Temp - 27.6 °C

11:05 - Sample time 019-580 (#11)
SC - 396.0 uS
TDS - 264.8 ppm
ORP - -33 mV
pH - 6.71 Temp - 22.8°C

Sulphur Dome 10/30/25

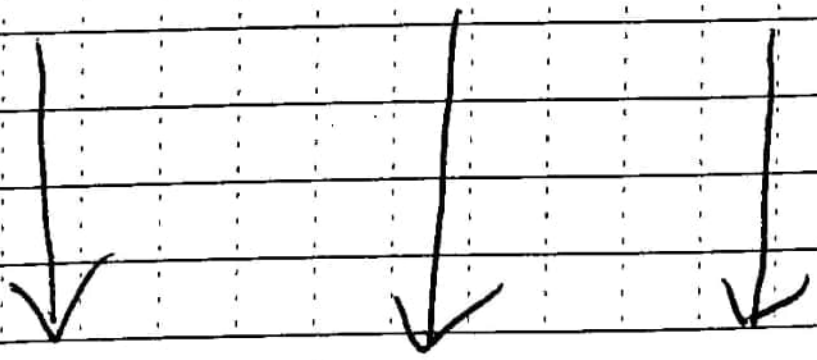
019-582 (#B) sample time 11:30

UltraMeter –
SC – 396.1 µS
TDS – 264.6 ppm
ORP – –46 mV
pH – 6.78
Temp – 22.6 °C

019-1055 (#19) well unable to sample due to electrical issues, per operator.

FB-103025 collected at 11:35.

Check out, leave site



Scale: 1 square = 4B

0801006

Sulphur Dome
Sulphur LA
Scott Himes

10/20/25
0801006

0940- SAH arrive on site
1000- TAB arrive on site
- Sign in get permit in control room
- H&S meeting
1040- Mobilize to collect cavern gas samples
1050- Collect PPG-4 gas sample (Isobag)
1100 - Collect PPG-2 gas sample (Isobag)

1140 - SAH & TAB board boat to set gas traps.

Set trap at LDNR-12
LDNR-7
LDNR-3

1215 - Sample LDNR-03 for gas (isobag + tedlar)
1220- Sample LDNR-04 " " "

Set trap at LDNR-23
1325- Board Boat with Kelly McNair
- check LDNR-06 - full
1330- collect LDNR-06 gas Isobag / Tedlar
*1200 Called Gas Dep-01

10/20/25

Sulphur Dome
Sulphur LA
Scott Himes

1350- Collect LDNR-23 gas iso + tedlar

1400 - collect LDNR-07 gas iso + tedlar

Set trap at LDNR-22
Set trap at LDNR-21 not many bubbles
LDNR-18
LDNR-17

1440- collect LDNR-05 gas iso + tedlar

1505- Back on shore - head to GW sampling crew
MW-3-500 bladder pump control settings
2 CPM 12 sec refill 18 sec discharge
pressure ~ 150

1535 - Go set trap at LDNR-01

1605- Leave site

Scale: 1 squar

10/21 0800/1006

Sulphur Dome Quarterly Sampling

D. Sanguinetti

700 Sign in / Get Permit

Finished BS sites:

LDNR-4

LDNR-3

LDNR-5

LDNR-6 & DUP-01

~~LDNR-7 / DUP-01~~

DG @ 13, 14, 8, 25

Finished topping off LDNR-23

810 Collect LDNR-22 ISO / Tedlar

820 Collect LDNR-LDNR-21 ISO / Tedlar

0830 Collect LDNR-18 ISO / Tedlar

Bubbles consistent but spread:

@ 18, 21, 22

840 Collect LDNR-17 ISO / Tedlar

850 Collect LDNR-12 ISO / Tedlar

Low bubbles @ 12

10121 08010006

Sulphur Dome Sampling D.Sargent

1020 Collect LDNR-~~26~~08
11 bottles ALS / 1 ~~DG~~

~~1050 Collect LDNR-25~~

| Temp | pH | Cond | ORP | ~~DO~~ | TDS ppm |
|---|---|---|---|---|---|
| 25.9 | 5.72 | 1388 | 140 | | 938.2 |

1050 Collect LDNR-25
11 bottles / 1 DG

| Temp | pH | Cond | ORP | TDS |
|---|---|---|---|---|
| 27.4 | 6.33 | 1380 | 152 | 934.2 |

1115 Collect LDNR-13
11 bottles / 1 DG

| Temp | pH | Cond | ORP | TDS |
|---|---|---|---|---|
| 28.4 | 6.58 | 1400 | 152 | 945.1 |

1140 Collect LDNR-14
11 bottles / 1 DG

| Temp | pH | Cond | ORP | TDS |
|---|---|---|---|---|
| 27.3 | 6.73 | 1389 | 137 | 939.5 |

1215 Lunch
1300 Back from lunch

10121

Sulphur Dome Sampling 0801006

1413 ~~AB~~ collect LDNR-12

11 Bottles

Temp pH Cond ORP TDS

29.4 6.98 1394 134 939.8

1430 Sample LDNR-06

9999 SW-Dup-01

Temp pH Cond ORP TDS

28.3 6.95 1396 134 942.4

1500 Sample LDNR-07

Temp pH Cond ORP TDS

28.1 7.21 1383 115 932.5

Finish sampling in boat

Rain storm front imminent

Organize Samples

1700 Leave site

10/22/25 080.006

Sulphur Dome D. Sanguinetti

Central Pond Sampling

0820 Collect LDNR-23 (ALS) 11 bottles

| Temp | pH | Cond | ORP | TDS |
|---|---|---|---|---|
| 22.1 | 7.41 | 1401 | 105 | 958 |

0830 Collect LDNR-03 (ALS 11 bottles)

| Temp | pH | Cond | ORP | TDS |
|---|---|---|---|---|
| 21.7 | 7.19 | 1413 | -81 | 966.2 |

850 Collect LDNR-22

| Temp | pH | Cond | ORP | TDS |
|---|---|---|---|---|
| 25.2 | 7.31 | 1393 | 59 | 949.7 |

900 Collect LDNR-21 (ALS 11 bottles)

| Temp | pH | Cond | ORP | TDS |
|---|---|---|---|---|
| 23.1 | 7.47 | 1393 | 87 | 947.9 |

LDNR-4 Not accessible by john boat

Need Air boat

1000 Collect LDNR-18 ALS (11 Bottles)

| Temp | pH | Cond | ORP | TDS |
|---|---|---|---|---|
| 25.5 | 7.32 | 1368 | 135 | 928.3 |

1120 LDNR-17 ALS Bottles (11)

080.006 10/22/25

Sulphur Dome Sampling

Temp pH Cond ORP TDS
25.2 7.37 1367 93 928.1

1045 Collect LDNR-5 MS/MSD

Temp pH Cond ORP TDS
24.9 7.57 1373 92 930.9

~~1200 Take Lunch~~

Set gas traps @ LDNR-09

LDNR-19 - no water. will take gas meter reading

@ LDNR-09 - notice sticky substance on outside gas trap

Traps set

1430 LDNR-09 ISO/Tedlar bags collected

1430 LDNR-09 AIS 11 Bottles taken

SW-DUP-07 taken 1199

Temp pH Cond ORP TDS
28.8 7.11 8434 76 55.3?

10/22/25

0801006

Sulphur Dome Sampling

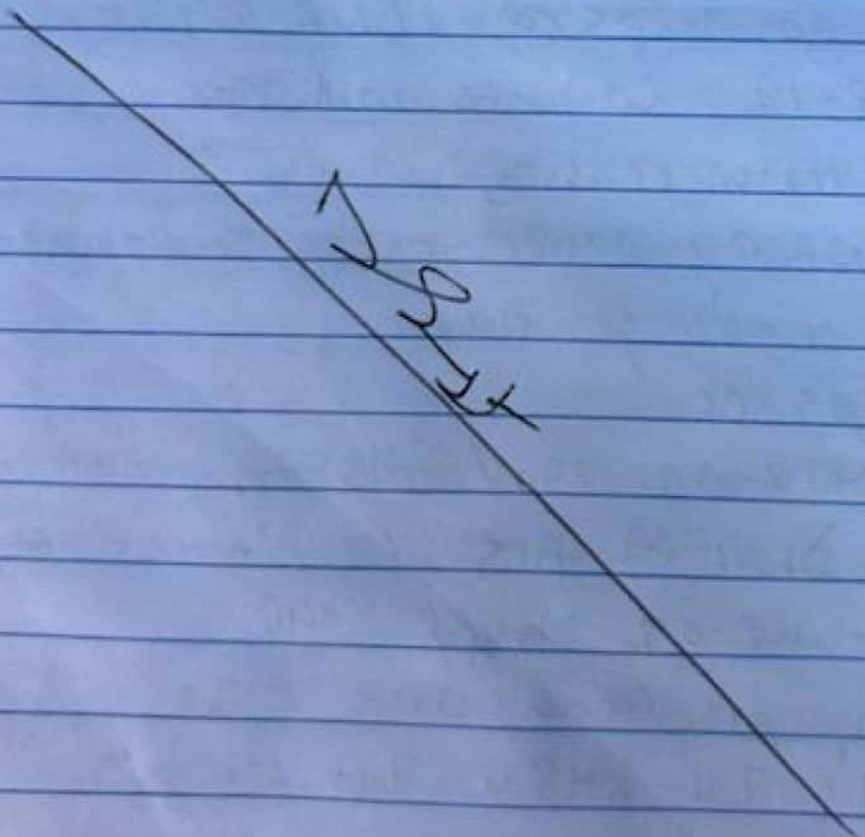
1530 Sample LDNR 01 ALS 1 bottle

Water low

| Temp | pH | Cond | ORP | TDS |
|---|---|---|---|---|
| 28.3 | 4.48 | 2888 | -55 | 2072 |

* Possible product in sample bottles

also may need to dilute



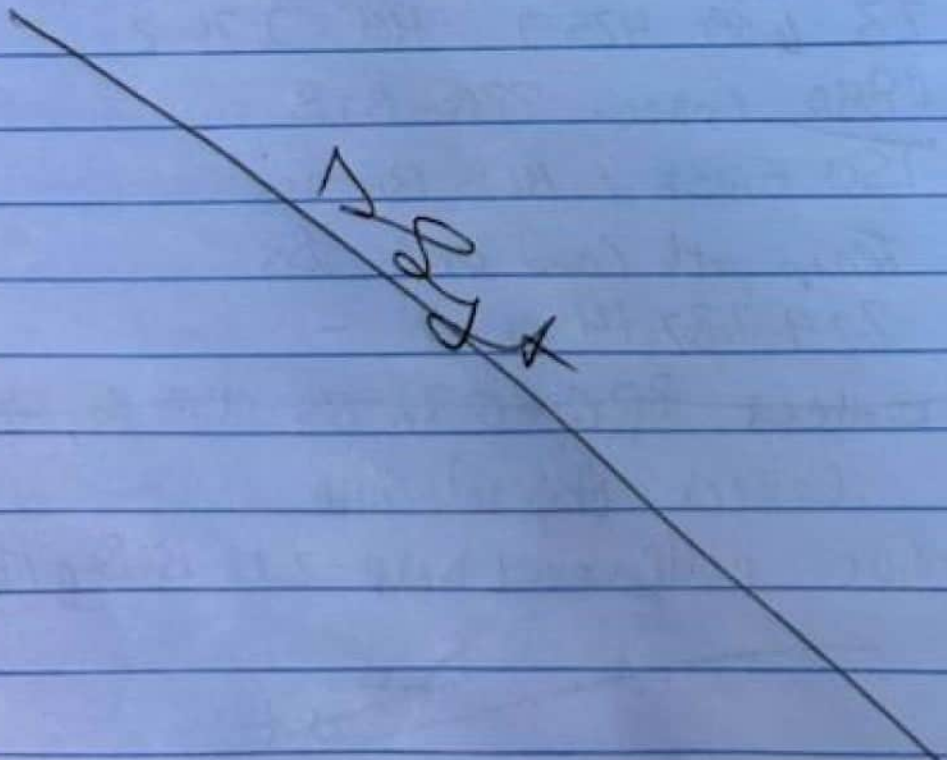
0801004 10/23/25

Sulphur Dome Quarterly Sampling
D. Sangwinett
C700 Onsite
07.0 Safety meeting
0730 Collect 019-1603 (40)
ISO Flask / ALS 11 Bottles
Temp pH Cond (u) ORP
21.5 6.73 392.0 50
0800 Collect Cottages
ISO Flask / ALS 11 Bottles
Temp pH Cond ORP TDS
23 6.39 425.7 -49 276.2
0840 Collect PPG-07B
ISO Flask / ALS Bottles
Temp pH Cond ORP TDS
22.9 7.32 145.1 2 -
~~0850 Collect PPG-07A BS ISO Bag / Tedlar~~
Collect Bkgrnd - Atm
1000 collect LDNR-27 ISO Bag / Tedlar
D Sangwinett

0801006 10123125

Sulphur Dome Sampling

1010 Collect LDNE-10 Iso Bag / Tedlar
1015 Collect LDNE-28 Iso Bag / Tedlar
1045 Collect LDNE-~~29~~ 25 Iso Bag / Tedlar
1330 Collect PPG-7A-135
0929 Collect GAS-DUP-02
Replace original parent sample
Organize samples, chains and take inventory. Ice samples
1400 Done for the day. Leave site.



34 11/17/25 Sulphur, Dome 080100s

12:45 - Zedric Arrive at site
12:50 - Taylor Arrive at site
13:00 - Zed Sign Permit
13:10 - Load equipment
13:50 - Kelly lead site Safety

13:55 - Headed to wells (MW3) to measure water level
- Kelly and Maren went to lunch.

MW3 - 500 = 59.71ft
MW3 - 200 = 53.97 ft
MW3 - 700 = 59.26 ft
MW1 - ~~700~~ 200(2") = 55.61 ft
MW1 = 500 = 56.63 ft
MW1 = ~~700~~ 200(2") = 23.99 ft

MW2 - 500 = 60.32 ft
MW2 - 200 = 48.24 ft
MW2 - 700 = 60.33 ft

Product on probe

2c Sulphur Dome, 11/17/25

MW3 500 Poly meter
$H_2S$ = 0.0 ppm
$O_2$ = 20.9 %
CO = 0 ppm
PID = 0 ppm
LEL = 0%

MW3 - 200
$H_2S$ = 0.0 ppm
$O_2$ = 20.9 %
CO = 0 ppm
PID = 0.0 ppm
LEL = 0 %

MW3 - 700
$H_2S$ = 0.0 ppm
$O_2$ = 20.9 %
CO = 0 ppm
PID = 0.0 ppm
LEL = 0%

36 2c Sulphur Done 11/17/25

MW1-700 Polly meter
$H_2S$ = 0.0 ppm
$O_2$ = 20.9%
CO = 0 ppm
PID = 0.0 ppm
LEL = 0%

Poly meter
MW1-500
$H_2S$ = 0.0 ppm
$O_2$ = 20.9 %
CO = 0 ppm
PID = 0.0 ppm
LEL = 0%

Poly meter
MW4-700
$H_2S$ = 0.0 ppm
$O_2$ = 20.9%
CO = 0 ppm
PID = 0.0 ppm
LEL = 0%

2c Sulphur Done 11/17/25

MW2-500 Poly meter
$H_2S$ = 0.0 ppm
$O_2$ = 20.9%
CO = 0 ppm
PID = 0.0 ppm
LEL = 0%

MW2-200 Poly meter
$H_2S$ = 0.0 ppm
$O_2$ = 20.9%
CO = 0 ppm
PID = 0.0 ppm
LEL = 0%

MW2-700 Poly meter
$H_2S$ = 0.0 ppm
$O_2$ = 20.9
CO = 0 ppm
PID = 0.0 ppm
LEL = 0%

2C Sulphur Dome 11/17/25

FB - 111725 - Sample time 1600

$H_2S$ test = 0

End of day = 1645

2C Sulphur Dome 11/17/25

MW1-200 DTW = 23.48 ft

| Time | temp °C | RDO mg/L | SC us | pH | ORP mV | Turb NTU | Flow ml/min | Drwdn ft |
|---|---|---|---|---|---|---|---|---|
| 15:35 | 28.72 | 0.142 | 600.1 | 8.789 | +67.5 | 5.42 | 225 | 23.58 |
| 15:40 | 28.70 | 0.089 | 617.7 | 8.737 | -234.7 | 4.85 | 225 | 23.57 |
| 15:45 | 28.68 | 0.067 | 624.2 | 8.692 | -255.5 | 2.56 | 225 | 23.56 |
| 15:50 | 28.64 | 0.045 | ~~2.584~~ | 8.585 | -263.0 | 9.29 | " " | " " |
| 15:55 | 28.72 | 0.029 | 629.4 | 8.510 | -264.5 | 9.78 | " " | " " |
| 16:00 | 28.73 | 0.033 | 648.5 | 8.472 | -267.7 | 6.54 | " " | " " |

Sample time: 1605

Purged ~ 2 gallons

40 2C Sulphur Dome 11/18/25

-0700 - Kelly, Zedric, Taylor Arnoecon site

-0700 - signed permit
-0800 - Head to MW3 took awhile, no services around.

-FB-111825 - Sample time 09:00

MW-3-500 $H_2S$ test = 3.0 mg/L

Lunch @ 11:40

Back at site @ 12:30

MW-3-700
$H_2S$ test = 00 mg/L

MW-3-700
$H_2S$ test = 0.0 mg/L

11-18-25 KM Sulphur Dome 11/18/25

MW-3-500 Depth = 59.78 ft

| Time | °C Temp | pH | µS/cm SC | mg/L DO | mV ORP | NTU Turb | L/min Flow | ft DTW |
|---|---|---|---|---|---|---|---|---|
| 0840 | 33.01 | 8.771 | 6.966 | 0.860 | -347.6 | 11.8 | 410 | 59.85 |
| 0845 | 33.36 | 8.680 | 6.938 | 0.753 | -352.7 | 15.2 | " | " |
| 0850 | 33.54 | 8.652 | 6.955 | 0.436 | -361.6 | 18.6 | " | " |
| 0855 | 33.69 | 8.724 | 6.982 | 0.230 | -368.1 | 26.1 | " | " |
| 0900 | 33.43 | 8.814 | 6.984 | 0.143 | -373.1 | 32.8 | " | " |
| 0905 | 33.45 | 8.909 | 6.998 | 0.087 | -376.5 | 35.0 | " | " |
| 0910 | 33.57 | 8.945 | 6.991 | 0.054 | -380.8 | 40.8 | " | " |
| 0915 | 33.55 | 8.967 | 6.994 | 0.034 | -3804 | 41.0 | " | " |
| 0920 | 33.57 | 9.037 | 6.988 | 0.023 | -3834 | 36.5 | " | " |
| 00 | | | | | | | | |

Sample time = 0930
purged ~ 4 gallon

- GW-rinsate Sample Time 14:30

- Cottages: 1500

pH = 5.71
temp = 78.9
SC = 473.3 ~~ms~~
~~DO~~ =
ORP = -63 mV
TDS = 314.8 ppm

DUP-S80: 15:30

TDS = 211.8 ppm
ORP = -59 mV
pH = 5.64
temp = 79.5
SC = 320.6 ~~µS~~

11-18-25

MW-3-200, $I_{DTW}$ = 51.81 ft

| Time | Temp °C | pH | RDO mg/L | SC uS/cm | ORP mV | Turb NTU | Flow mL/min | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 1010 | 32.27 | 9.27 | 0.296 | 865.0 | -335.2 | 19.5 | 300 | 56.23 |
| 1015 | 32.34 | 9.18 | 0.176 | 824.4 | -340.1 | 31.5 | ↑↑ | 57.30 |
| 1020 | 32.35 | 8.93 | 0.115 | 787.7 | -343.1 | 44.6 | ↓↓ | 58.41 |
| 1025 | 32.32 | 8.75 | 0.091 | 780.2 | -340.5 | 31.6 | 280 | 58.94 |
| 1030 | 32.20 | 8.70 | 0.074 | 769.3 | -339.5 | 23.0 | ↑↑ | 59.47 |
| 1035 | 32.14 | 8.66 | 0.067 | 759.6 | -338.7 | 21.4 | ↑↑ | 59.94 |
| 1040 | 32.25 | 8.63 | 0.060 | 760.3 | -339.0 | 17.4 | ↓↓ | 60.33 |
| 1045 | 32.25 | 8.59 | 0.054 | 745.8 | -338.6 | 14.3 | ↓↓ | 60.67 |
| 1050 | 32.41 | 8.54 | 0.048 | 747.2 | -337.6 | 12.1 | ↓↓ | 61.02 |
| | | | Sample Time 1100 | | | 10.6 | | 61.21 |
| 1055 | 32.39 | 8.49 | 0.043 | 740.3 | -337.2 | 10.6 | ↑↑ | 61.21 |
| 1100 | 32.53 | 8.42 | 0.039 | 738.3 | -334.8 | 9.13 | ↓↓ | 61.45 |
| | Sample Time: 1110 | | | | | | | |

* Had to wait for Turbidity to fall within Criteria

0101 - 905 : 1350

pH = 5.96
TDS = 209 ppm
SC = 317.3 µs
Temp = 74.0
ORP = -66

- 1615 - Head back to the office. Filled out COC

- 1640 - End of day

MW3-720 Total Flow = 59.36

| Time | Temp °C | pH | SC µs/cm | mV ORP | NTU Turb | mL/min Flow | Total Flow |
|---|---|---|---|---|---|---|---|
| 1310 | 36.16 | 8.027 | 5,358 | -272.1 | 19.7 | 510 | 59.6 |
| 1315 | 36.51 | 8.151 | 5,287 | -230.7 | 15.5 | " | " |
| 1320 | 36.68 | 8.190 | 5413 | -244.2 | 18.7 | " | " |
| 1325 | 36.69 | 8.220 | 5,429 | -251.8 | 17.5 | " | " |
| 1330 | 36.77 | 8.281 | 5451 | -260.0 | 16.0 | " | " |
| 1335 | 36.90 | 8.350 | 5,370 | -266.9 | 6.7 | " | 59.63 |
| 1340 | 36.98 | 8.311 | 5,396 | -272.6 | 14.5 | " | 59.64 |
| 1345 | 37.02 | 8.430 | 5476 | -278.2 | 13.4 | " | " |
| 1350 | 37.00 | 8.449 | 5,493 | -281.0 | 10.0 | " | " |
| 1355 | 37.12 | 8.458 | 5469 | -289.6 | 10.0 | " | " |

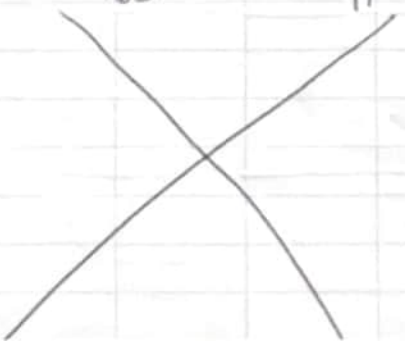
~~Sample time~~
Purged (2L)
1400 | 37.15 | 8.446 | 5,487 | 0.087 | -289.3 | 8.09 | " | " |
Sample Time: 1410 Purged: ~6 gallon

Sulphur Dome 11/14/25 ZC

- 0650 - Zedric Arrive on Site
- 0700 - Taylan and Ieelly arrive & Refill ice in coolers
-
- 0710 - Permit signed
- 0730 - Head to MW-1

- FB-111925 - 0815

014-502 = Sampled time = 1045
Field parameters
Temp. = 75.6
pH - 6.61
Sc - 381.10 us/cm
ORP = -89 mV
TDS - 225.2 ppm





ZC Sulphur Dome 11/14/25

MW-1-500 Initial DTW 56.36

| Time | Temp °C | pH | SC (uS/cm) | RDO mg/L | ORP -180.5 | Turb NTU | Flow ml/min | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 0800 | 29.13 | 8.382 | 358.3 | 1.100 | -149.7 | 252 | 225 | 56.45 |
| 0805 | 28.82 | 8.418 | 358.5 | 1.011 | -168.9 | 25.6 | " | " |
| 0810 | 28.57 | 8.442 | 355.5 | 0.829 | -174.0 | 22.2 | " | " |
| 0815 | 28.57 | 8.463 | 354.7 | 0.677 | -178.8 | 16.1 | " | " |
| 0820 | 28.9 | 8.477 | 354.9 | 0.591 | -186.6 | 14.6 | 400 | 56.56 |
| 0825 | 30.07 | 8.497 | 353.7 | 0.397 | -200.6 | 13.7 | 400 | 56.51 |
| 0830 | 30.77 | 8.506 | 356.8 | 0.294 | -210.7 | 12.8 | 400 | 56.56 |
| 0835 | 30.91 | 8.512 | 353.7 | 0.234 | -219.4 | 12.9 | 400 | " |
| 0840 | 30.45 | 8.515 | 351.4 | 0.200 | -226.5 | 12.6 | 400 | " |

$H_2S$ Test: 0.0 mg/L

Sample time: 0845
Purged 3 gallons

11/19/25 Sulphur Dome ZC

09-1055 : sample time : 1110

pH = 6.68

temp = 75.9

ORP = -81

SC = 363.7

TDS = 241.3 ppm

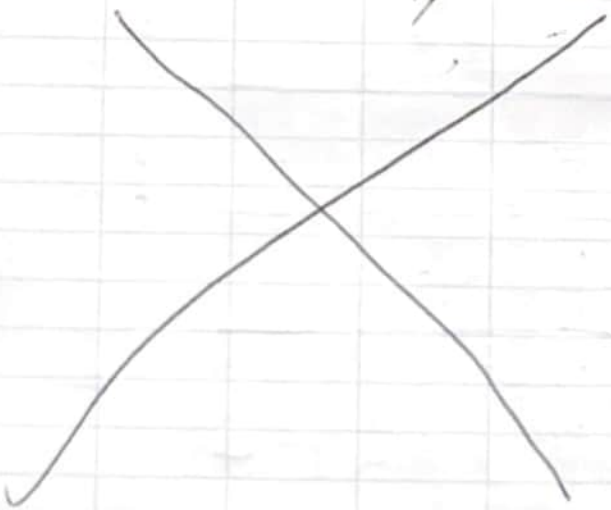
-Lunch Break @ 1115

-Back at site @ 1215

- Head to MW-2

MW-2-200 $H_2S$ Head = 0.0

End of day - 1645





11/19/25

MW-1-700 DTW(i) = 55.59 ft

| Time | Temp(C) | pH | SC(mS/cm) | DO(mg/L) | ORP(mV) | Turb(NTU) | Flow(mL/min) | DTW(ft.) |
|---|---|---|---|---|---|---|---|---|
| 0930 | 30.67 | 9.37 | 965.9 | 2.211 | -252.1 | 13.5 | 400 | 56.08 |
| 0935 | 31.17 | 9.38 | 967.8 | 1.311 | -265.4 | 13.3 | " | " |
| 0940 | 31.42 | 9.39 | 965.7 | 0.829 | -275.2 | 12.2 | " | " |
| 0945 | 31.54 | 9.40 | 971.1 | 0.530 | -282.8 | 11.8 | " | " |
| 0950 | 31.65 | 9.40 | 976.4 | 0.347 | -289.4 | 10.9 | " | " |
| 0955 | 31.83 | 9.41 | 976.7 | 0.249 | -294.4 | 10.8 | " | " |
| 1000 | 31.79 | 9.42 | 979.6 | 0.193 | -298.8 | 10.0 | " | " |
| 1005 | 31.90 | 9.42 | 1,004 | 0.155 | -302.8 | 9.87 | " | " |

Sample Time: 1015

Purged: 4 Gallons

$H_2S$ Test: 0.1 mg/L

50

11/20/25 Sulphur dome

- 0700 - Kelly, Taylor, Zedric Arrive at site
~~0947 - 1603~~ (zc)

- 0710 - signed permits
- - load equipment

- 0947 - 1603
Sample time: 0745

TDS 265.5 ppm
Temp 72.9 °C
Cond 592.5 µS
ORP -117 mV
pH 7.11

Head to MW-2-500 @ 0800
- GW-Dup
- MS - MW-2-500
- MSD - MW-2-500
Sample time

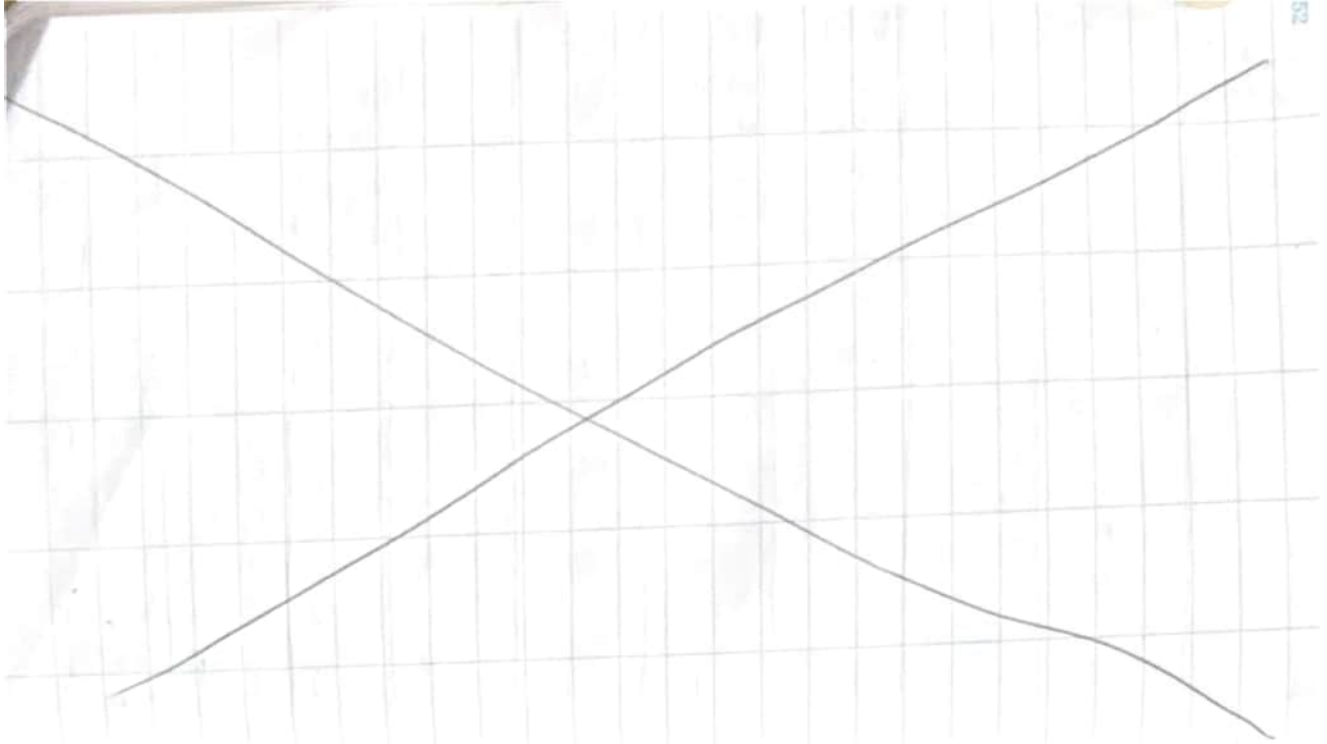
FB - 112025, sample time 0850

51

11/19/25 Sulphur Dome

MW-2-200 T. DTW = 46.0

| Time | Temp °C | pH | SC µS/cm | 1-DTW | ORP | -223.9 | DO mg/L | Flow (mL/min) | CH DTW | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1245 | 28.8 | 8.03 | 485.1 | 1.165 | -224.9 | | 31.5 | 300 | 49.2 | Heavy fog |
| 1250 | 28.5 | 8.14 | 492.5 | 0.679 | -233.7 | | 25.5 | " " | 49.8 | |
| 1255 | 28.18 | 8.235 | 493.1 | 0.972 | -243.1 | | 27.2 | " " | SD.19 | |
| 1300 | 28.20 | 8.296 | 477.5 | 0.258 | -250.4 | | 48.3 | " " | 50.45 | |
| 1305 | 28.17 | 8.322 | 482.0 | 0.190 | -257.6 | | 94.1 | " " | 50.57 | |
| 1310 | 28.20 | 8.337 | 478.5 | 0.139 | -263.3 | | 72.7 | " " | 50.82 | |
| 1315 | 28.47 | 8.328 | 459.1 | 0.113 | -2715 | | 56.3 | " " | 50.91 | |
| 1320 | 28.52 | 8.330 | 481.2 | 0.096 | -279.9 | | 38.8 | " " | 51.02 | |
| 1325 | 28.50 | 8.273 | 493.8 | 0.081 | -275.6 | | 28.3 | " " | 51.08 | |
| 1330 | 28.51 | 8.237 | 491.3 | 0.080 | -275.6 | | 24.6 | " " | 51.12 | |
| 1335 | 28.49 | 8.194 | 507.8 | 0.072 | -273.9 | | 19.5 | " " | 51.15 | |
| 1340 | 28.45 | 8.164 | 516.3 | 0.066 | -272.4 | | 17.1 | " " | 51.18 | |
| 1345 | 28.35 | 8.138 | 516.5 | 0.060 | -269.6 | | 15.5 | " " | 51.20 | |
| 1350 | 28.25 | 8.104 | 514.1 | 0.055 | -264.1 | | 14.4 | " " | 51.22 | |



MW-2-200 Continue

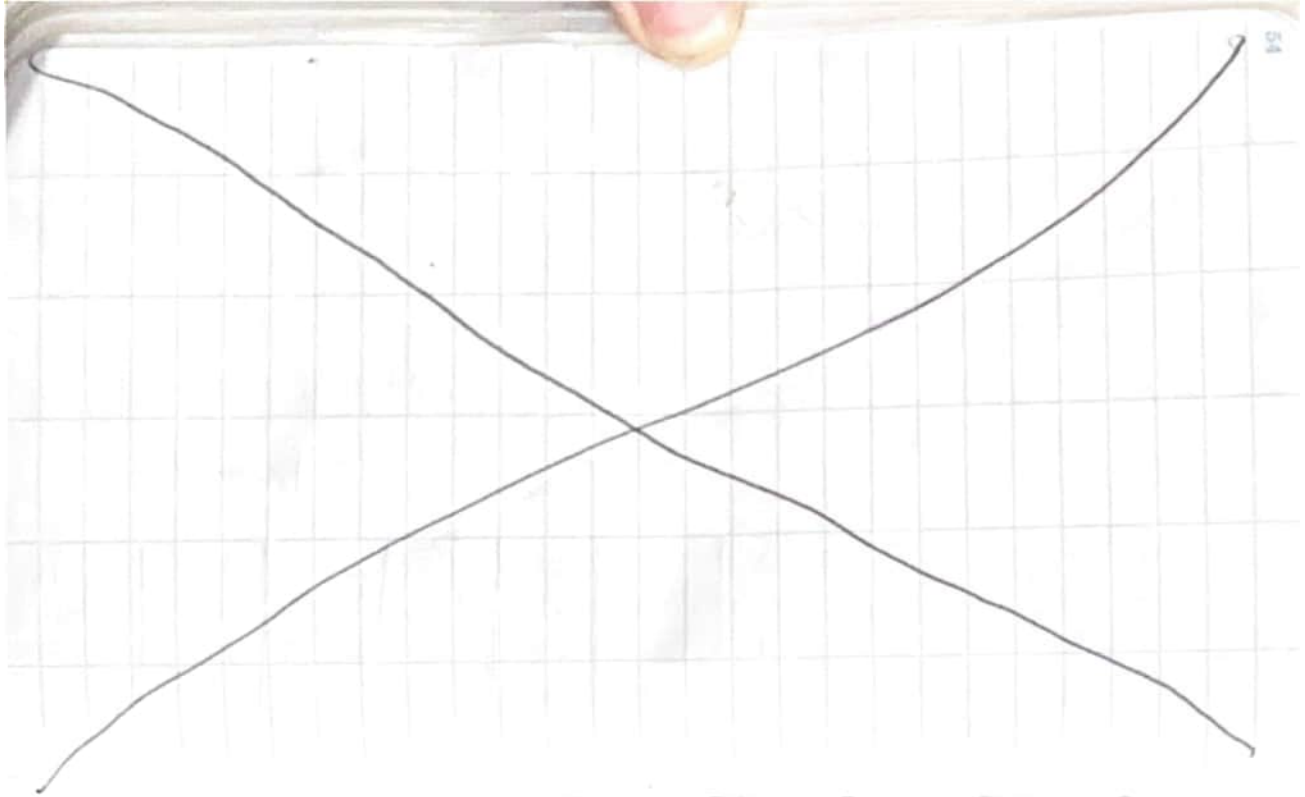
| Time | Temp | pH | SC | RDO | ORP | Turb | Flow | DTW |
|---|---|---|---|---|---|---|---|---|
| 1355 | 28.29 | 8.091 | 535.6 | 0.056 | -265.6 | 12.8 | 300 | 51.23 |
| 1400 | 28.48 | 8.074 | 532.0 | 0.097 | -265.4 | 13.0 | " " | 51.25 |
| 1405 | 28.4 | 8.073 | 527.0 | 0.044 | -264.5 | 12.8 | " " | 51.25 |

Sample time: 14.20

Purged = 4.5 gallons

11/19/25

Sulphur Dome ZC

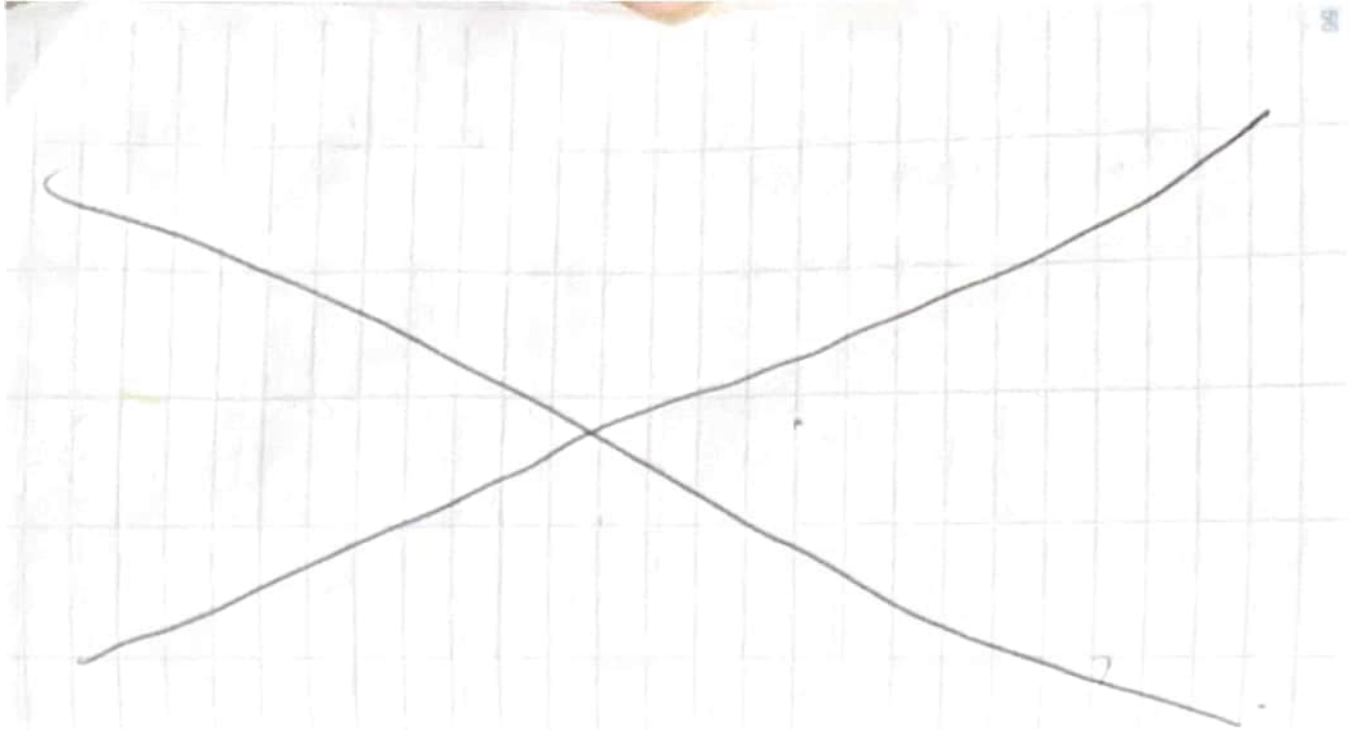


MW-2-700 I.DTW = 60.71 11/19/25

| Time | Temp(°C) | pH | SC uS/cm | RDO mg/L | ORP mV | Turb(NTU) | Flow mL/min | DTW(ft) |
|---|---|---|---|---|---|---|---|---|
| 1502 | 30.24 | 9.84 | 1,027 | 0.659 | -280.4 | 11.0 | 560 | 60.81 |
| 1507 | 30.55 | 9.82 | 1,054 | 0.270 | -300.8 | 10.0 | " | " |
| 1512 | 30.71 | 9.82 | 1,079 | 0.191 | -309.6 | 11.9 | " | " |
| 1517 | 30.80 | 9.82 | 1,059 | 0.150 | -316.6 | 12.1 | " | 60.82 |
| 1522 | 30.86 | 9.82 | 1,081 | 0.130 | -321.2 | 11.1 | " | " |
| 1527 | 30.93 | 9.82 | 1,071 | 0.112 | -324.1 | 12.4 | " | " |
| 1532 | 30.98 | 9.81 | 1,057 | 0.101 | -326.4 | 9.32 | " | " |
| 1537 | 31.01 | 9.81 | 1,110 | 0.090 | -328.1 | 8.35 | " | " |
| 1542 | 31.05 | 9.81 | 1,116 | 0.084 | -329.9 | 7.42 | " | " |
| 1547 | 31.07 | 9.80 | 1,110 | 0.081 | -330.5 | 9.56 | " | " |

Sample Time: 1600
Purged: 7.5 Gallons

$H_2S$ Test: 0.1 mg/L



MW-2-500 T. DTW = 61.10

| Time | °C Temp | pH | ms/cm SC | mg/L RDO | mV ORP | NTU Turb | Flow | (ft) DTW |
|---|---|---|---|---|---|---|---|---|
| 0825 | 29.39 | 10.34 | 661.2 | 0690 | -275.4 | 10.8 | 500 | 61.13 |
| 0830 | 29.49 | 10.33 | 661.6 | 0.679 | -277.4 | 10.4 | " " | 61.11 |
| 0835 | 29.85 | 10.30 | 664.0 | 0.466 | -285.9 | 11.2 | " " | 61.11 |
| 0840 | 30.00 | 10.30 | 663.0 | 0.350 | -291.2 | 12.9 | " " | " " |
| 0845 | 30.15 | 10.30 | 694.1 | 0.262 | -296.3 | 16.3 | " " | " " |
| 0850 | 30.22 | 10.33 | 635.5 | 0.187 | -301.4 | 29.1 | " " | " " |
| 0855 | 30.35 | 10.34 | 616.9 | 0.132 | -307.8 | 25.1 | " " | " " |
| 0900 | 30.50 | 10.34 | 629.4 | 0.113 | -311.1 | 26.3 | " " | " " |

Sample time = 0930 $H_2S$ test = 0.1 mg/L

Purged = ~6 gallons

5/20/25

44

Location Sulphur Dome

Project / Client West lake

Date 11/17/25

76°F

1015 ERM onsite

1130 arriving at LDNR-24

Sample time 1145

| Temp | Cond µS/cm | TDS ppm | ORP | pH |
|---|---|---|---|---|
| 22.2 | 1592 | 1153 | 16 | 7.24 |

1200 moving to LDNR-04

1205 arrive at LDNR-04

Sample time 1215

| Temp | Cond µS/cm | TDS ppm | ORP mV | pH |
|---|---|---|---|---|
| 24.7 | 1599 | 1152 | 30 | 7.54 |

1225 heading to bank

1235 arrive at salt lake

LDNR-26

| Temp | Cond µS/cm | TDS ppm | ORP mV | pH |
|---|---|---|---|---|
| 22.4 | 285.5 | 189.4 | 136 | 8.21 |

Sample time: 1245

58 12/15/25 Sulphur Dome Sunny/No coat

-12:30. Zedric and Kelly arrive onsite
-12:35 Load everything up
-12:40 - Sign in

-13:00 - Head to MW-3

MW-3-700 = 58.72 Ft
MW-3-200 = 59.52 Ft
MW-3-500 = 59.08 Ft
MW-2-700 = 59.89 Ft
MW-2-200 = 49.75 Ft
MW-2-500 = 60.12 Ft
MW-1-700 = 55.29 Ft
MW-1-500 = 55.62 Ft
MW-1-200 = 23.66 Ft

MW-3-700 polimeter
$H_2S$ (ppm) = 0.0
$O_2$ (%) = 20.9
LEL%) = 0
CO (ppm) = 0
PID (ppm) 0.0

12/15/25 Sulphur Dome 2C 59

MW-3-500
- $H_2S$ = 0
$O_2$ = 20.9
CO = 0
PID = 0
LEL = 0

MW-3-700
$H_2S$ = 0
$O_2$ = 20.9
CO = 0
PID = 0.0
LEL = 0

MW-2-700

$H_2S$ = 0
$O_2$ = 20.9
CO = 0
PID = 0.0
LEL - 0

12/15/25 Sulphur Done 2c

MW-2-700
$H_2S$ = 0.0
$O_2$ = 20.9
LEL = 0
CO = 0.
PID = 0.0

MW-2-500
$H_2S$ = 0.0
$O_2$ = 20.9
LEL = 0
CO = 0
PID = 0.0

MW-1-700
$H_2S$ = 0
$O_2$ = 20.9
LEL = 0
CO = 0
PID = 0.0

MW-1 500
$H_2S$ = 0
$O_2$ = 20.9
LEL = 0
CO = 0
PID = 0.0



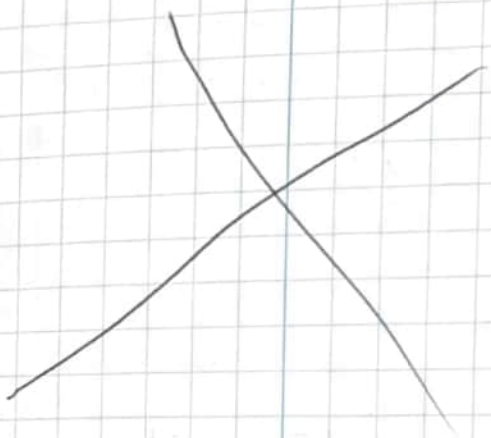
12/15/25 Sulphur Done 2c

MW-1-200
$H_2S$ = 0
$O_2$ = 20.9
LEL = 0
CO = 0
PID = 0.0

*Note
Polymeter
readings might
be irregular
MW-1 wells
have to be
redo

-16:30 - offsite

EOD



MW-1-200 DTW$_I$ = 23.68' 12/15/25

| Time | Temp(°C) | pH | SC(µS/cm) | RDO(mg/L) | ORP(mV) | Turb(NTU) | Flow(mL/min) | DTW(ft) |
|---|---|---|---|---|---|---|---|---|
| 1452 | 24.67 | 8.53 | 642.0 | 0.337 | -191.6 | 8.77 | 200 | 23.72 |
| 1457 | 25.16 | 8.53 | 628.1 | 0.254 | -212.8 | 9.19 | " | 23.71 |
| 1502 | 25.49 | 8.47 | 634.6 | 0.202 | -221.1 | 7.72 | " | " |
| 1507 | 25.41 | 8.42 | 628.4 | 0.229 | -223.7 | 6.82 | " | " |
| 1512 | 25.38 | 8.34 | 635.1 | 0.267 | -226.0 | 3.91 | " | " |
| 1517 | 25.62 | 8.31 | 641.6 | 0.246 | -229.3 | 8.29 | " | " |
| 1522 | 25.74 | 8.17 | 641.4 | 0.196 | -224.1 | 4.88 | " | " |
| 1527 | 25.58 | 8.16 | 634.2 | 0.194 | -225.4 | 3.10 | " | " |
| 1532 | 25.55 | 8.08 | 646.2 | 0.149 | -224.5 | 7.32 | " | " |

Sulphur Dome

MW-1-200 Sample @ 15:40

Total purged: 2.5 gal

FB-121525 Sample@ 15:10

Kann

12/16/25 Sulphur Dome

06:50 - Tedric Amico on site

07:05 - Kelly on site

07:10 - sign permit

07:20 - Load trucks (2)

07:30 - Head to well #11 and H2S

MW-1-200 - Sample Hr 0745

Temp = 20.1°C

Cond = 348.3 µS/cm

TDS = 223.5 ppm

ORP = -30 mV

pH = 5.97

MW-582 - Sample time 0820

Temp = 20.2°C

Cond = 320.3 µS/cm

TDS = 202.7 ppm

ORP = -27.0 mV

pH = 5.86

12/16/25 Sulphur Dome 2C

FB-121625

-sample time 0820

CDHarges Sample time 0850

Temp 16.2°C
Cond = 489.2 us/cm
TDS = 321.1 ppm
ORP = -214 mv
pH = 5.95

MW-1-500 = 55.45 ft

New Polymete reading for MW-1-500

$H_2S$ (ppm) = 0.0
$O_2$ (%) = 20.5
LEL (%LEL) = 0
CO (ppm) = 0
PID (ppm) = 0.0

Note: Polymeter reset w/ help from Ajay



12/16/25 Sulphur Dome 2C

MW-1-500 Initial DTW = 55.45 ft (WD)

| Time | Temp C | pH | SC (us/cm) | ROO (%) | ORP (mV) | TDS | Head (%mm) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 1030 | 29.49 | 8.276 | 362.4 | 0.516 | -185.3 | 41.3 | 480 | 55.68 |
| 1035 | 30.01 | 8.281 | 368.5 | 0.364 | -193.7 | 38.8 | " | " |
| 1040 | 30.07 | 8.271 | 369.6 | 0.314 | -204.9 | 33.8 | " | " |
| 1045 | 24.35 | 8.303 | 366.0 | 0.290 | -210.1 | 33.3 | " | 55.66 |
| 1050 | 29.10 | 8.278 | 366.3 | 0.291 | -210.2 | 32.1 | " | 55.61 |
| 1055 | | | | | | | | |

$H_2S$ test = 0.0 ml/$H_2S$

Purged 3 gal.
Sample time: 11:00

12/14/25 Sulphur Dome 2C

MW-1-700 → New Polymeter reading

$H_2S = 0.0$
$O_2 = 20.9$
LEL = 0
CO = 0
PID = 0.0

Lunch, Kelly and Zedric offsite 11:40

- 12:30
Kelly and Zedric back at site

MW-1-700 - New pdi reading

$H_2S = 0.0$
$O_2 = 20.9$
LEL = 0
CO = 0
PID = 0.0



12/16/25 Sulphur Dome 2C

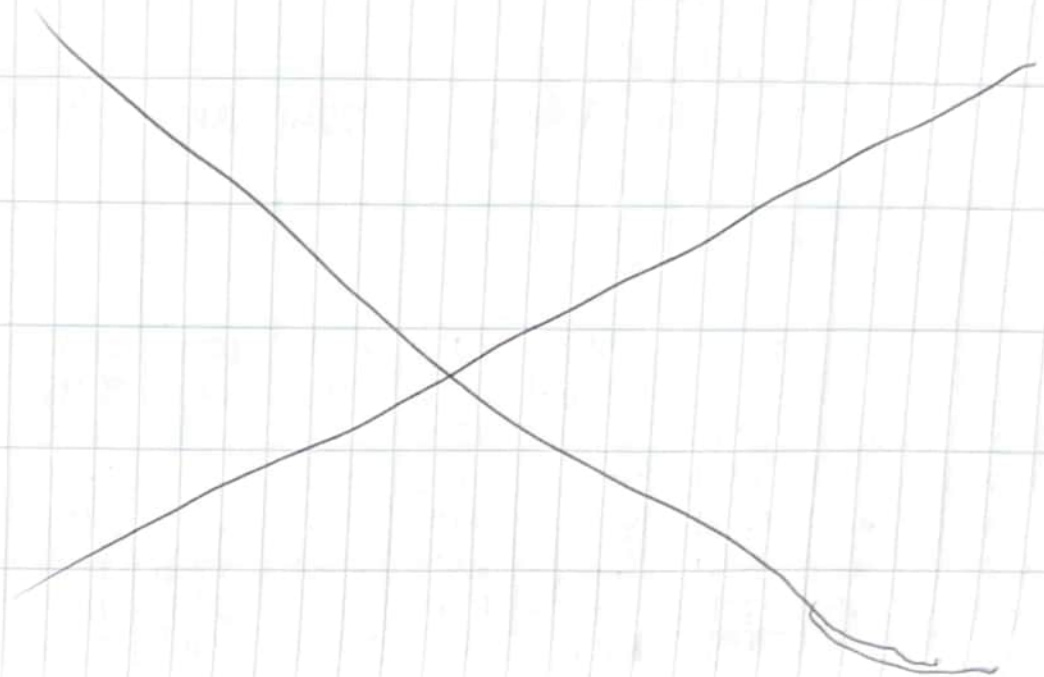
MW-1-700 DTW(0) = 54.94

| Time | Temp °C | pH | SC µS/cm | RDO mg/L | ORP mV | Turb NTU | Flow mL/min | DTW ft |
|---|---|---|---|---|---|---|---|---|
| 1318 | 30.16 | 9.08 | 1,006 | 0.414 | -227.5 | 21.3 | 450 | ~~55.33~~ |
| 1323 | 30.61 | 9.07 | 994.8 | 0.303 | -232.5 | 15.4 | " | 55.33 |
| 1328 | 30.74 | 9.05 | 991.5 | 0.264 | -234.3 | 14.5 | " | " |
| 1333 | 30.89 | 9.05 | 989.9 | 0.231 | -239.5 | 13.9 | " | 55.34 |
| 1338 | 31.16 | 9.04 | 990.9 | 0.210 | -241.5 | 11.7 | " | " |
| 1343 | 31.32 | 9.04 | 998.7 | 0.194 | -243.9 | 12.0 | " | " |
| 1348 | 31.33 | 9.07 | 991.4 | 0.181 | -246.8 | 10.9 | " | " |

Sample Time 1400 Purged ~ 4.16 gal

$H_2S$ kept = 0.1 ppm

* Encountered some issues w/ water level Meter. (Maybe changed meters?)

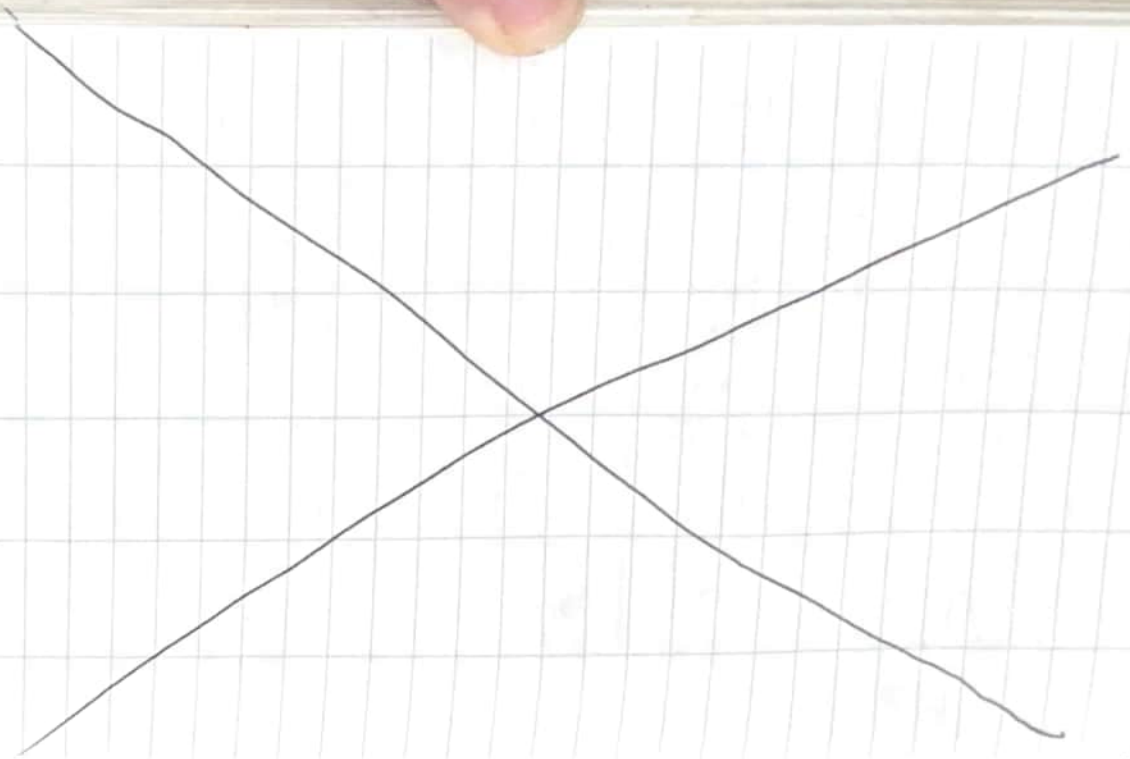


MW-3-20C) I. DTW = 51.88

12/16/25

| (24hr) Time | Temp °C | pH | SC uS/cm | RDO mg/L | ORP mV | Turb | Flow mL/min | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 1510 | 30.79 | 8.96 | 846.6 | 0.254 | -236.1 | 20.4 | 300 | 56.3 |
| 1515 | 30.40 | 8.58 | 779.6 | 0.200 | -234.9 | 80.2 | 300 | 57.97 |
| 1520 | NR | NR | NR | NR | NR | NR | NR | NR |
| 1525 | ~~8.434~~ 28.13 | 8.435 | 760.5 | 0.188 | -228.3 | 67.4 | 120 | 58.88 |
| 1530 | 27.83 | 8.413 | 764.2 | 0.190 | -228.1 | 52.7 | 120 | 58.00 |
| 1535 | 27.02 | 8.36 | 747.3 | 0.197 | -220.3 | 45.5 | 120 | 57.9 |
| 1540 | 26.44 | 8.303 | 741.9 | 0.200 | -211.1 | 57.7 | 120 | 57.85 |
| 1545 | 26.23 | 8.262 | 738.8 | 0.213 | -206.2 | 48.0 | 120 | 57.70 |
| 1550 | 26.12 | 8.196 | 732.7 | 0.225 | -201.0 | 39.0 | " " | 57.63 |
| 1555 | 26.07 | 8.205 | 732.6 | 0.231 | -201.5 | 27.0 | " " | 57.59 |
| 1600 | 25.97 | 8.165 | 730.0 | 0.237 | -199.2 | 21.8 | " " | 57.55 |
| 1605 | 25.97 | 8.121 | 727.7 | 0.241 | -196.8 | 16.4 | " " | 57.50 |
| 1610 | 25.02 | 8.102 | 729.0 | 0.242 | -197.1 | 13.9 | " " | 57.45 |
| 1615 | 25.91 | 8.074 | 726.7 | 0.241 | -196.3 | 13.1 | " " | " " |

Sampled @ 1540



MW-3-200 continuation

12/16/25 Sulphur Dome 2C

| time | temp | pH | SC ms/cm | RDO mg/L | ORP mV | Turb | Flow mg/min | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 1610 | 25.96 | 8.044 | 7260 | 0.237 | -146.1 | 14.9 | 120 | 57.42 |
| 1615 | 25.82 | 8.049 | 727.5 | 0.233 | 0.233 | 14.0 | 120 | 57.46 |
| 1620 | | | | | | | | |

No Sample time: 1625 $H_2S$ 20.0 mg/L

Purge: 3 gallons

Note: Had problem with turbidity meter.
- Had condensation in the screen

End of day = 1735

12/17/25 Sulphur Dome 2C

- Raining, Cast,

~0700: Zedric and Kelly Arrive onsite
0715 – permit signed
0720 – Load up trucks
0790 – Head to MW-3
Note: MW-3-500 has very strong odor

10:30 – Head back to the office to get the new water level

~10:40 Head to 019-1603

Sample time = 1100

019-1603

| | | |
|---|---|---|
| Cond | 376.6 | µS/cm |
| Temp | 21.6 | °C |
| TDS | 240.8 | ppm |
| ORP | -97.0 | mV |
| pH | 6.51 | |



12/17/25

MW-3-500 DTW(i) = 58.92'

| Time | Temp(°C) | pH | SC(mS/cm) | DO(mg/L) | ORP(mV) | Turb(NTU) | Flow(mL/min) | DTW(ft) |
|---|---|---|---|---|---|---|---|---|
| 0820 | 30.89 | 9.48 | 6,286 | 0.449 | -234 | 17.6 | 380 | 58.9 |
| 0825 | 31.64 | 9.46 | 6,110 | 0.218 | -269.4 | 25.0 | " | NR* |
| 0830 | 31.44 | 9.37 | 5,902 | 0.152 | -271.9 | 31.2 | " | NR* |
| 0835 | 31.33 | 9.33 | 5,811 | 0.085 | -290.4 | 45.7 | " | 58.86 |
| 0840 | 31.50 | 9.30 | 5,728 | 0.053 | -308.1 | 51.4 | " | 58.86 |
| 0845 | 31.60 | 9.29 | 5,946 | 0.037 | -326.9 | 30.4 | " | 58.94 |
| 0850 | 31.82 | 9.27 | 5,843 | 0.031 | -332.7 | 30.3 | " | 58.94 |
| 0855 | 32.04 | 9.26 | 6,020 | 0.028 | -335.9 | 25.2 | " | 58.94 |
| 0900 | 32.01 | 9.26 | 5,879 | 0.027 | -340.4 | 23.2 | " | 58.94 |
| 0905 | 31.81 | 9.25 | 6,054 | 0.025 | -339.0 | 30.3 | " | 58.94 |
| 0910 | 31.86 | 9.25 | 5,908 | 0.024 | -340.6 | 28.5 | " | 58.94 |
| 0915 | 31.93 | 9.22 | 5,928 | 0.022 | -343.6 | 30.2 | " | NR* |

Sample Time: 0925 Purged = 5 gal $H_2S$ = 1.0 ppm

* still having issues w/ DTW Due to water level meter

12/14/25

OW-105S

Sample time 11:25

Water = Yellowish-Brown color water

- Cond = 340.0 uS/cm
- Temp = 20.7 °C
- TDS = 227.3 ppm
- ORP = -53 mV
- pH = 6.13

OW-GGS - 1155

- Cond = 325.4
- Temp = 20.3
- TDS = 207.6 ppm
- ORP = 18 mV
- pH = 6.04

- Lunch / OFFSite 12:25

- ~~1315~~ (2e)

- 1315: Back at site, Head to MW-3

FB = 121725 sample time: 1400

MW-3 — 700

Initial DTW = 58.43 ft

| Time | Temp °C | pH | SC µS/cm | RDO % | ORP mV | Flow rate | DTW ft | PID |
|---|---|---|---|---|---|---|---|---|
| 1340 | 33.22 | 8.258 | 4,550 | 0.451 | -159.2 | 400 | 58.54 | 260 |
| 1345 | 33.95 | 8.250 | 4,525 | 0.287 | -170.8 | " | " | 189 |
| 1350 | 34.19 | 8.152 | 4550 | 0.225 | -179.1 | " | " | 11.1 |
| 1355 | 32.25 | 8.157 | 4526 | 0.190 | -186.1 | " | " | 12.6 |
| 1400 | 34.91 | 8.106 | 4,559 | 0.148 | -191.2 | " | " | 9.55 |
| 1405 | 34.49 | 8.119 | 4,563 | 0.150 | -195.7 | " | " | 7.23 |
| 1410 | 34.62 | 8.180 | 4,581 | 0.134 | -200.7 | " | 58.55 | 6.28 |

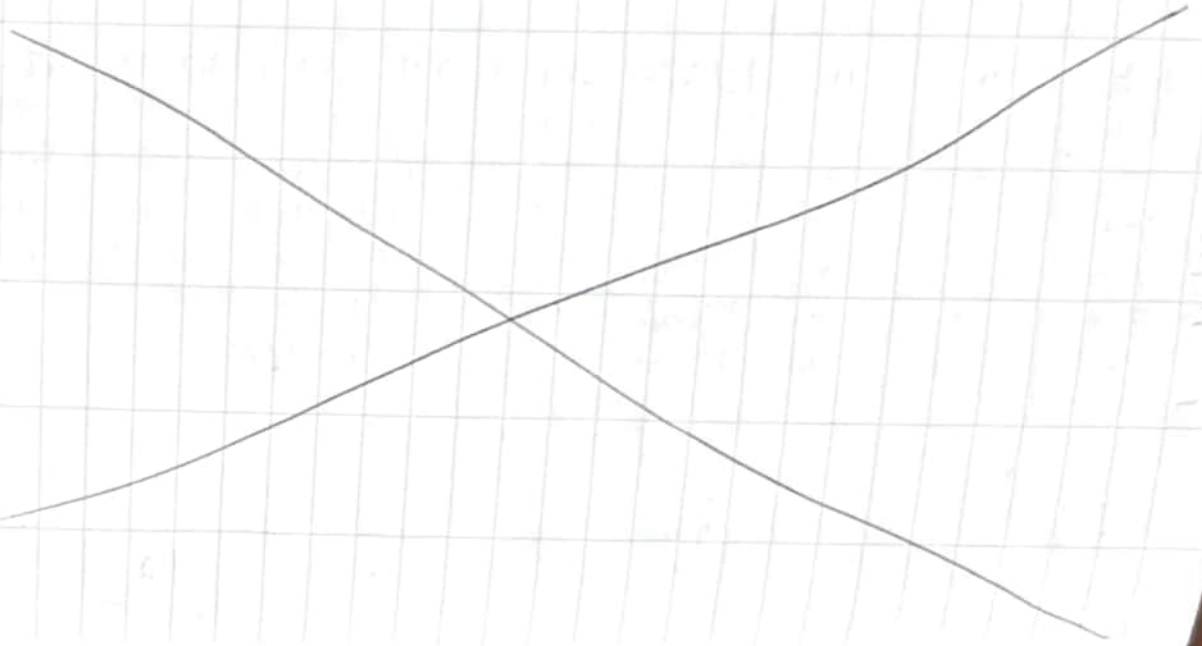


12/17/25

$H_2S$ = 0.0 mg/L

Sample time: 1415

Purged: 45 gallons



MW-2-200 DTW@0 = 48.75 ft 12/18/25

| Time | temp °C | pH | Sc us/cm | RDO mg/L | Turb NTU | ORP mV | Flow ml/min | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 1045 | 27.38 | 7.902 | 527.9 | 0.250 | 29.1 | -203.9 | 280 | 49.73 |
| 1050 | 27.33 | 7.98 | 516.9 | 0.240 | 24.7 | -210.6 | 280 | 50.11 |
| 1055 | 27.52 | 8.009 | 508.8 | 0.207 | 23.0 | -215.0 | 280 | 50.46 |
| * 1105 ~~1100~~ | 27.71 | 8.003 | 494.5 | 0.156 | 36.3 | -217.0 | 280 | 50.82 |
| 1110 ~~1105~~ | 27.40 | 8.028 | 496.9 | 0.143 | 38.5 | -219.9 | 290 | 50.85 |
| 1115 ~~1110~~ | 27.46 | 8.037 | 491.1 | 0.133 | 43.6 | -221.0 | 290 | 50.84 |
| 1120 ~~1115~~ | 27.36 | 8.045 | 489.9 | 0.122 | 45.6 | -224.0 | 290 | 50.79 |
| 1125 ~~1120~~ | 27.56 | 8.048 | 489.8 | 0.122 | 48.4 | -227.3 | 290 | 50.84 |

~~Sample time~~ (2C)

~~purged~~ (2C)

Sample time: 11:30

purged: ~2.5 gallons

Note: *NR on 1100 because we adjusted the water level

$H_2S$ = 0.0 mg/L

Sulphur Bore

2C

78

79

12/17/25 Sulphur Dome 2c.

15:00 - Head to MW-2 but couldn't sample because it was unaccessible due to rain

- 1545 - GW RINSATE

- 1600 - COCs, recap

End of day - 16:45

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12/18/25

- 0705, Zedric and Kelly arrive onsite
- 0710 sign permit
- 0715, load ~~wells~~ truck
- 0722 - Head to MW-2

FB-121825 = 1100 sample time

Lunch = 12:20, offsite



Sulphur Dome

12/18/25

MW-2-700 DTW(i) = 59.39 ft.

| Time | Temp °C | pH | SC uS/cm | RDO mg/L | ORP mV | Flow rate | DTW ft | Turb NTU |
|---|---|---|---|---|---|---|---|---|
| 0830 | 28.04 | 9.43 | 1,150 | 0.518 | -216.7 | 360 | 59.46 | 17.5 |
| 0835 | 28.29 | 9.42 | 1,156 | 0.379 | -225.6 | " | " | 15.2 |
| 0840 | 28.40 | 9.41 | 1,162 | 0.328 | -231.3 | " | " | 13.5 |
| 0845 | 28.50 | 9.41 | 1,165 | 0.294 | -236.8 | " | " | 12.2 |
| 0850 | 28.65 | 9.41 | 1,160 | 0.269 | -240.3 | " | " | 11.3 |
| 0855 | 28.69 | 9.41 | 1,159 | 0.249 | -243.6 | " | " | 11.5 |
| 0900 | 28.89 | 9.41 | 1,163 | 0.232 | -247.3 | " | " | 10.2 |
| 0905 | 28.98 | 9.40 | 1,168 | 0.219 | -249.7 | " | " | 8.80 |
| 0910 | 29.02 | 9.41 | 1,172 | 0.207 | -253.0 | " | " | 9.48 |
| 0915 | 29.11 | 9.41 | 1,168 | 0.196 | -255.2 | " | " | 10.3 |
| 0920 | 29.03 | 9.41 | 1,163 | 0.187 | -257.4 | " | " | 9.34 |
| 0925 | 28.84 | 9.40 | 1,166 | 0.183 | -257.7 | " | " | 9.42 |

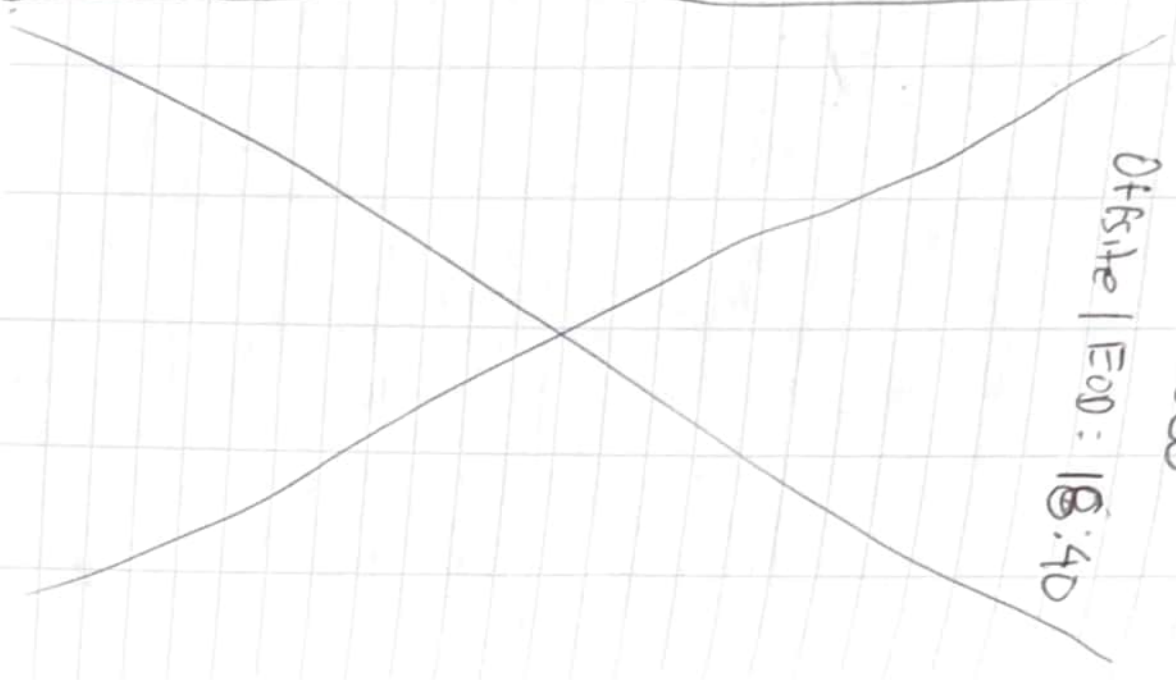
ICAM

$H_2S = 0.1$ mg/L

Sample Time: 0935

Purged ~ 5 gallons

~~MW-2-500 E. DTW = 59.25 ft~~ ~~12/18/25~~



GW-DUP from MW-2-500 sampled @ Offsite | EOD: 16:40

12/18/25

MW-2-500 DTW(i) = 59.25 ft 12/18/25

| Time | Temp °C | pH | SC (mS/cm) | RDO (mg/L) | ORP (mV) | Flow (mL/min) | (ft) DTW | Turb (NTU) |
|---|---|---|---|---|---|---|---|---|
| 1515 | 28.21 | 10.51 | 836.8 | 0.586 | -228.4 | 300 | 59.32 | 29.0 |
| 1520 | 28.21 | 10.58 | 844.0 | 0.481 | -236.0 | " | " | 23.2 |
| 1525 | 28.35 | 10.57 | 818.0 | 0.410 | -241.8 | " | " | 17.2 |
| 1530 | 28.54 | 10.56 | 814.9 | 0.359 | -247.1 | " | " | 16.1 |
| 1535 | 28.61 | 10.58 | 812.1 | 0.326 | -253.2 | " | " | 13.9 |
| 1540 | 28.70 | 10.59 | 804.7 | 0.302 | -256.4 | " | " | 12.9 |
| 1545 | 28.83 | 10.58 | 802.4 | 0.285 | -258.7 | " | " | 12.9 |
| 1550 | 28.81 | 10.59 | 805.8 | 0.266 | -261.5 | " | " | 12.1 |

Sample @ 16:00
Purged = 3.17 gal $H_2S$ = 0.0 mg/L