



July 2026 Monthly Compliance Report

Solid Waste Permit No. 588
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INTRODUCTION

On behalf of the City of Bristol, Virginia (City), SCS Engineers has prepared this report to the Virginia Department of Environmental Quality (VDEQ) in accordance with Item 8.iii in Appendix A of the Consent Decree between the City and VDEQ. This report provides updates regarding the progress towards completion of the items outlined in Appendix A of the Consent Decree between the City and VDEQ. The following sections outline progress during the month of July 2026 related to Solid Waste Permit (SWP) No. 588.

1.0 GAS COLLECTION

The following sections describe the steps the City, in collaboration with its consultants and contractors, has taken to improve the operation, monitoring, and performance of the facility's landfill gas collection and control system (GCCS).

1.1 SURFACE AND LEACHATE COLLECTION EMISSIONS

1.1.1 Surface Emissions

SCS performed surface emissions monitoring on July 2, 2026; July 8, 2026; July 16, 2026; July 21, 2026; and July 30, 2026. These weekly surface emissions monitoring (SEM) events were performed in accordance with Item 1.i in Appendix A of the Consent Decree between the City and VDEQ. SCS also performs quarterly SEM at the landfill in accordance with regulatory requirements.

The details and results of the SEM are included in **Appendix A**. A summary of the outcomes is provided in **Table 1**.

Table 1. Summary of July Surface Emissions Monitoring

Description	July 2, 2026	July 8, 2026	July 16, 2026	July 21, 2026	July 30, 2026
Number of Points Sampled	167	168	168	168	168
Number of Points in Serpentine Route	100	100	100	100	100
Number of Points at Surface Cover Penetrations	67	68	68	68	68
Number of Exceedances	2	2	4	4	0
Number of Serpentine Exceedances	0	0	0	0	0
Number of Pipe Penetration Exceedances	2	2	4	4	0

In response to the SEM results, the City and the City's operations, monitoring, and maintenance contractor, SCS OM&M took the following actions or noted the following observations:

- An ongoing pipe penetration exceedance was recorded at EW-55 (initial exceedance date 6/25/26). SCS-FS increased vacuum to this wellhead. Monitoring of this location during a follow-up monitoring event did not result in an exceedance.
- An initial pipe penetration exceedance was recorded at EW-53. SCS-FS increased vacuum to this wellhead. Monitoring of this location during a follow-up monitoring event did not result in an exceedance.
- An initial pipe penetration exceedance was recorded at EW-58. SCS-FS increased vacuum to this wellhead. Monitoring of this location during a follow-up monitoring event did not result in an exceedance.
- An initial pipe penetration exceedance was recorded at EW-67. SCS-FS increased vacuum to this wellhead. Monitoring of this location during a follow-up monitoring event did not result in an exceedance.

1.1.2 Monitoring of Leachate Collection Components

Monitoring of the leachate, witness zone, northern cleanouts, and gradient control clean-outs at the southern end of the landfill occurred on July 7, 2026. The results of that monitoring are included in **Table 2**. Where possible (i.e. where minimal vacuum wasn't already applied), adjustments were made to decrease applied vacuum at wells with oxygen concentrations greater than 5%.

Table 2. Leachate Cleanout Pipe Monitoring Results

Description	ID#	Record Date	CH4 (% by Vol)	CO2 (% by Vol)	O2 (% by Vol)	Balance Gas (% by Vol)	Initial Temp (°F)	Adj Temp (°F)	Initial Static Pressure (in H2O)	Adj Static Pressure (in H2O)	System Pressure (in H2O)
Southern Cleanouts Gradient West	LC01	7/7/2026 10:12:51 AM	45.1	28.7	4.8	21.4	75.9	75.8	-18.61	-18.79	-18.27
Southern Cleanouts Gradient East	LC02	7/7/2026 10:09:01 AM	25.9	16.9	12.7	44.5	75.2	75.3	-18.64	-18.97	-18.75
Southern Cleanouts Leachate Center	LC03	7/7/2026 9:43:34 AM	17.6	9.3	15.2	57.8	73.7	73.8	-15.18	-15.25	-19.39
Southern Cleanouts Witness East	LC04	7/7/2026 9:40:58 AM	36.2	22.7	5.8	35.4	73.5	73.6	-19.28	-18.78	-19.61
Southern Cleanouts Leachate West	LC05	7/7/2026 10:00:19 AM	47.7	31.6	4.6	16.1	75.6	75.8	-19.62	-19.65	-19.36
Southern Cleanouts Gradient Center West	LC06	7/7/2026 9:47:16 AM	10.1	5.9	18.1	65.9	73.9	73.8	-19.71	-19.49	-19.93
Southern Cleanouts Leachate East	LC08	7/7/2026 9:56:26 AM	48.2	30.7	4.7	16.5	75.4	75.5	-19.35	-19.35	-19.37
Southern Cleanouts Gradient Center East	LC09	7/7/2026 9:50:17 AM	58.3	38.4	0.3	3.0	69.0	68.8	-18.42	-19.54	-19.21
Southern Cleanouts Leachate West	LC10	7/7/2026 9:53:11 AM	58.5	37.7	0.0	3.8	74.7	75.0	-18.17	-18.14	-18.67
Northern Cleanouts Leachate East	NC01	7/7/2026 12:18:39 PM	0.3	0.1	20.0	79.6	101.6	103.4	-24.37	-24.19	-24.32
Northern Cleanouts Leachate Center	NC02	7/7/2026 12:21:32 PM	0.3	0.0	20.0	79.7	98.4	99.3	-24.28	-24.23	-24.22
Northern Cleanouts Leachate West	NC03	7/7/2026 10:33:11 AM	0.4	0.1	20.8	78.8	88.7	89.4	-24.03	-23.66	-23.99
Northern Cleanouts Witness East	NC04	7/7/2026 12:14:55 PM	27.3	18.5	11.0	43.2	87.7	87.7	-18.14	-18.14	-24.26

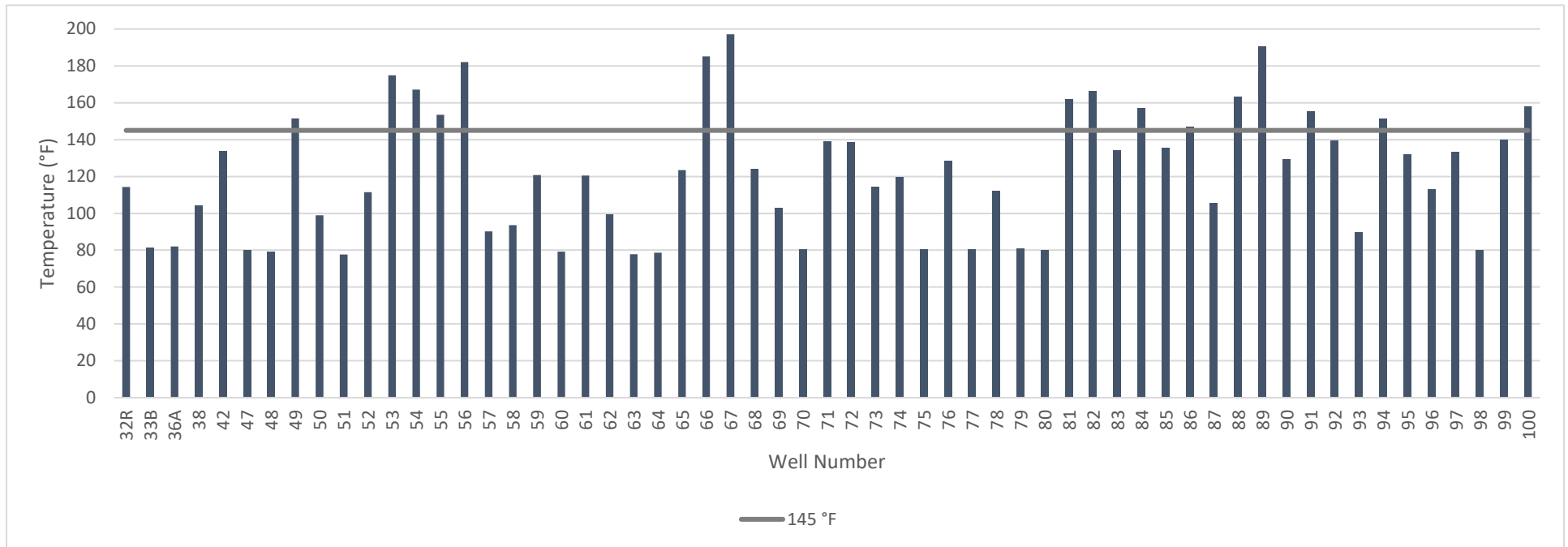
Description	ID#	Record Date	CH4 (% by Vol)	CO2 (% by Vol)	O2 (% by Vol)	Balance Gas (% by Vol)	Initial Temp (°F)	Adj Temp (°F)	Initial Static Pressure (in H2O)	Adj Static Pressure (in H2O)	System Pressure (in H2O)
Northern Cleanouts Witness Center	NC05	7/7/2026 10:40:13 AM	38.7	24.6	7.3	29.5	79.6	79.8	-18.49	-18.48	-23.72
Northern Cleanouts Witness West	NC06	7/7/2026 10:36:47 AM	17.3	10.1	15.6	57.0	78.3	78.4	-20.84	-20.57	-23.91
Northern Cleanouts Gradient East	NC07	7/7/2026 12:10:47 PM	10.0	4.9	17.1	67.9	94.0	95.3	-23.86	-23.86	-24.20
Northern Cleanouts Gradient Center East	NC08	7/7/2026 12:07:16 PM	7.0	1.1	18.7	73.3	81.9	82.1	-20.08	-19.82	-24.23
Northern Cleanouts Gradient Center West	NC09	7/7/2026 12:03:56 PM	14.0	5.9	16.3	63.9	94.2	94.5	-24.29	-24.16	-24.33
Northern Cleanouts Gradient West	NC10	7/7/2026 10:26:43 AM	49.5	9.2	7.4	33.9	83.5	83.5	-23.39	-23.52	-23.11

1.2 EXISTING GAS EXTRACTION SYSTEM PERFORMANCE

SCS reviewed the automated hourly temperature measurements from July 2026, and observed the following:

- The average temperature in June was above the regulatory threshold of 145 °F at 16 of the 59 wells (see **Figure 1**).
- The highest average temperature was 197.2 °F at EW-67. This well experienced ongoing temperature exceedances in July and is being actively monitored. EW-67 has an active dewatering pump, removing heat via the extracted liquids and creating more open pore spaces for hot gas to be extracted in turn. The pump in EW-67 was the third most active this month.

Figure 1. Monthly Average Automated Wellhead Temperatures¹



¹ 145 °F is the NESHA AAAA compliance threshold for well temperature, included here for reference.

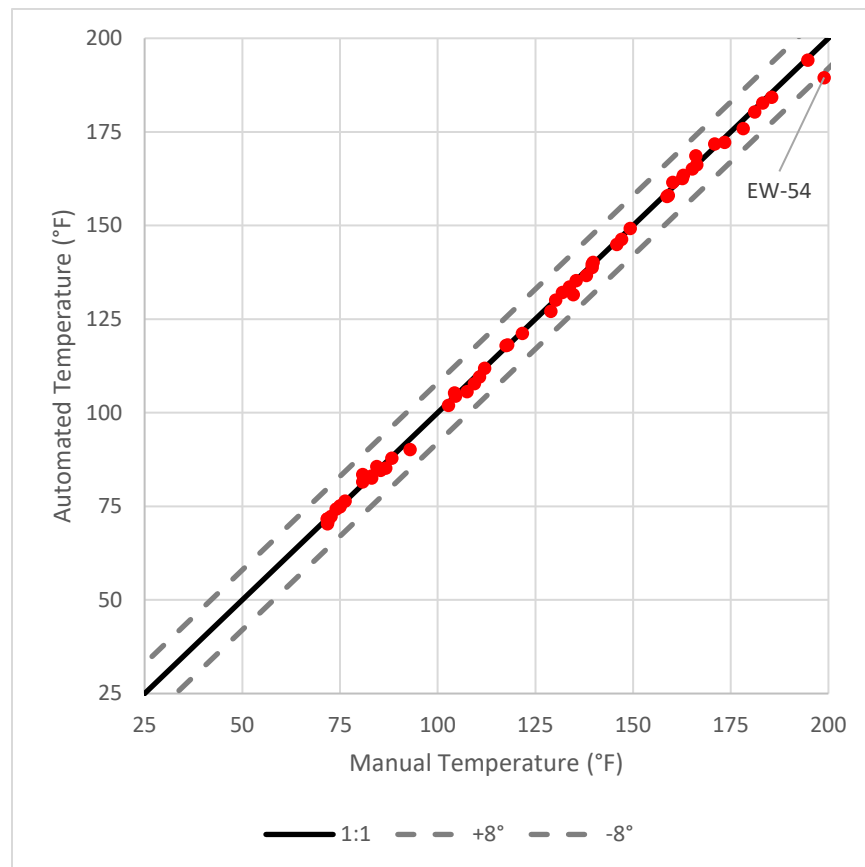
1.2.1 Comparison with Manual Temperature Measurements

Per the approval issued by VDEQ on August 2, 2023, the Facility ceased dedicated daily manual temperature measurements in the Permit No. 588 Landfill. In lieu of these measurements, the City compares instantaneous hourly automated temperature measurements with temperatures measured at each wellhead using a handheld sensor during monthly compliance monitoring. These comparisons are shown in **Figure 2**, with the $\pm 8^{\circ}\text{F}$ deviation thresholds as prescribed in the VDEQ approval.

Temperatures were within the $\pm 8^{\circ}\text{F}$ deviation threshold at all wells except EW-54 during this reporting period.

At EW-54, several readings throughout the month differed by 9 to 10°F , with the manual readings being higher than the automated reasons in all instances. This difference is likely related to the elevated temperatures at this well. SCS will continue to review temperature data for this well and take steps to improve the accuracy of temperature measurement devices if needed.

Figure 2. Automated vs. Manual Temperature Measurements



1.2.2 Monthly Regulatory Wellhead Temperature Measurements

Routine monthly temperature monitoring was conducted on July 6 and July 20, 2026, to comply with 40 CFR 60.36f(a)(5). **Table 3** provides the status of exceedances recorded during this monitoring period.

Table 3. July Temperature Exceedance Summary

Well ID	HOV	Initial Exceedance Date	Compliant Reading	Most Recent Reading	Duration of Exceedance	Status as of 8/1/2026
EW-52	180	7/2/26	7/6/26 178.7°F	7/29/26 179.5°F	5 days	Resolved within 15-day timeline
EW-54	190	7/20/26	7/30/26 187.1°F	7/30/26 187.1°F	11 days	Resolved within 15-day timeline
EW-55	175	6/25/26	7/20/26 140.5°F	7/29/26 163.1°F	26 days	Resolved within 60-day timeline
EW-66	190	6/8/26	7/20/26 178.5°F	7/29/26 175.6°F	43 days	Resolved within 60-day timeline
EW-67	180	6/24/26	N/A	7/30/26 190.9°F	39 days	Ongoing, within 60-day timeline
EW-68	None	6/8/26	7/8/26 138.7°F	7/30/26 170.3°F	31 days	Resolved within 60-day timeline
EW-68	None	7/29/26	N/A	7/30/26 170.3°F	4 days	Ongoing, within 15-day timeline

1.2.3 LFG Sampling

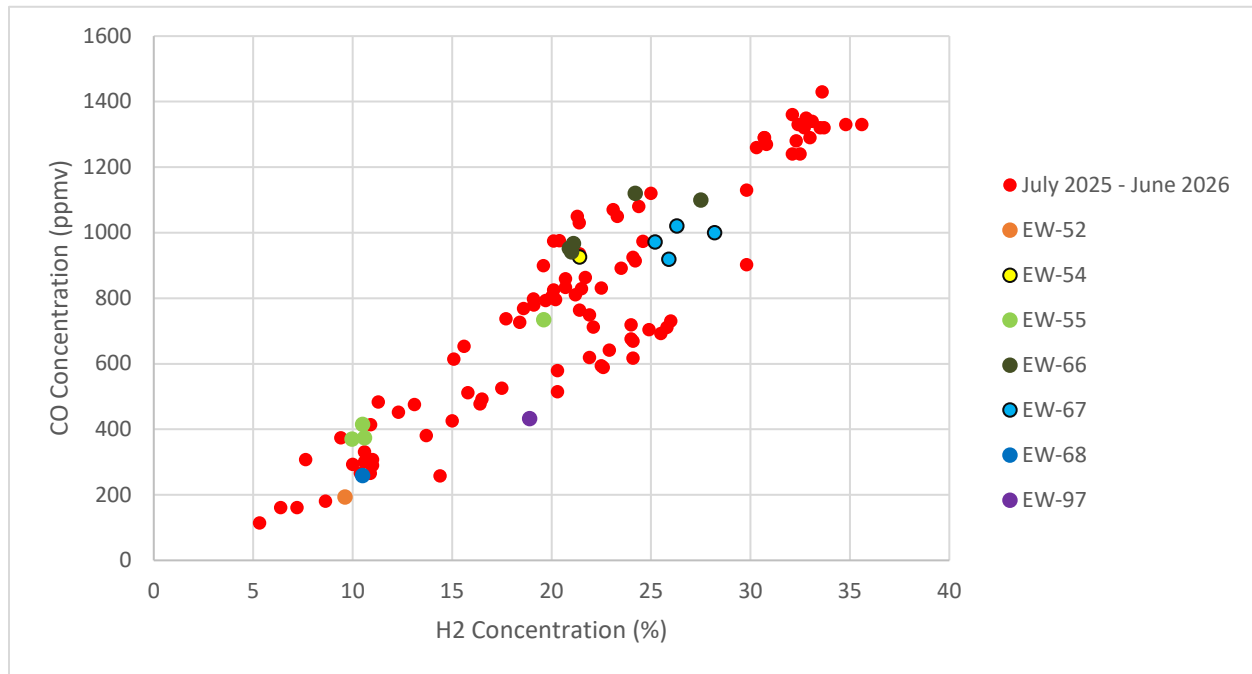
SCS collects weekly LFG samples from wells with temperature exceedances lasting more than seven days using 1.5-L summa canisters. The samples were sent to Enthalpy Analytical for laboratory analysis of carbon monoxide (CO) and hydrogen (H₂) content. As of August 1, 2026, the City has received lab results for sampling on June 16, June 26, July 2, July 8, and July 17, 2026, to fulfill the requirement in 40 CFR 63.1961(a)(5). The lab data are summarized in **Table 4**.

Table 4. LFG Wellhead Sampling Summary

Sample Date		6/16/26	6/26/26	7/2/26	7/8/26	7/17/26
EW-52	CO (ppmv)			193		
	H2 (Vol. %)			9.61		
EW-54	CO (ppmv)	926				
	H2 (Vol. %)	21.4				
EW-55	CO (ppmv)		370	415	374	734
	H2 (Vol. %)		9.97	10.5	10.6	19.6
EW-66	CO (ppmv)	952	967	941	1100	1120
	H2 (Vol. %)	20.9	21.1	21.0	27.5	24.2
EW-67	CO (ppmv)		1000	919	972	1020
	H2 (Vol. %)		28.2	25.9	25.2	26.3
EW-68	CO (ppmv)	259	186			
	H2 (Vol. %)	10.5	8.37			
EW-97	CO (ppmv)	433				
	H2 (Vol. %)	18.9				

As shown in **Figure 3**, the carbon monoxide and hydrogen data collected during this period are consistent with the data collected previously in 2025 and 2026.

Figure 3. CO vs H₂ Concentration from gas wells in July 2026 with historical trend



2.0 SIDEWALL ODOR MITIGATION

On the City's behalf, SCS designed and constructed a system to control fugitive emissions emanating from the quarry sidewalls.

2.1 PERIMETER GAS COLLECTION SYSTEM

Refer to the April 2023 Monthly Compliance Report for the SWP No. 588 Landfill, for information about the perimeter gas extraction wells.

2.2 SIDEWALL ODOR MITIGATION SYSTEM

Refer to the October 2022 Monthly Compliance Report for the SWP No. 588 Landfill, for information about the design of the sidewall odor mitigation system.

2.3 PILOT SYSTEM

Refer to the February 2023 Monthly Compliance Report for the SWP No. 588 Landfill, for information about the design of the construction of the pilot sidewall odor mitigation system.

2.4 FULL SYSTEM OPERATION

Operation of the sidewall odor mitigation system is monitored on a monthly basis. SCS OM&M collected monitoring data at each wellhead under vacuum in June. A summary of system averages during the month is shown in **Table 5**.

Table 5. Average SOMS Gas Composition

Record Dates	Average CH ₄ [%]	Average CO ₂ [%]	Average O ₂ [%]	Average Bal Gas [%]
7/29/2026	2.2	3.1	18.7	76.0

The sidewall system average gas composition indicates lower methane content and higher oxygen and balance gases than other components in the LFGCCS. These gas composition measurements indicate that the SOMS is collecting a mixture of LFG escaping the sidewall and air, as anticipated. Adjustments to vacuum at each wellhead are made on a regular basis to address changes in sidewall emissions and facilitate placement of additional soil.

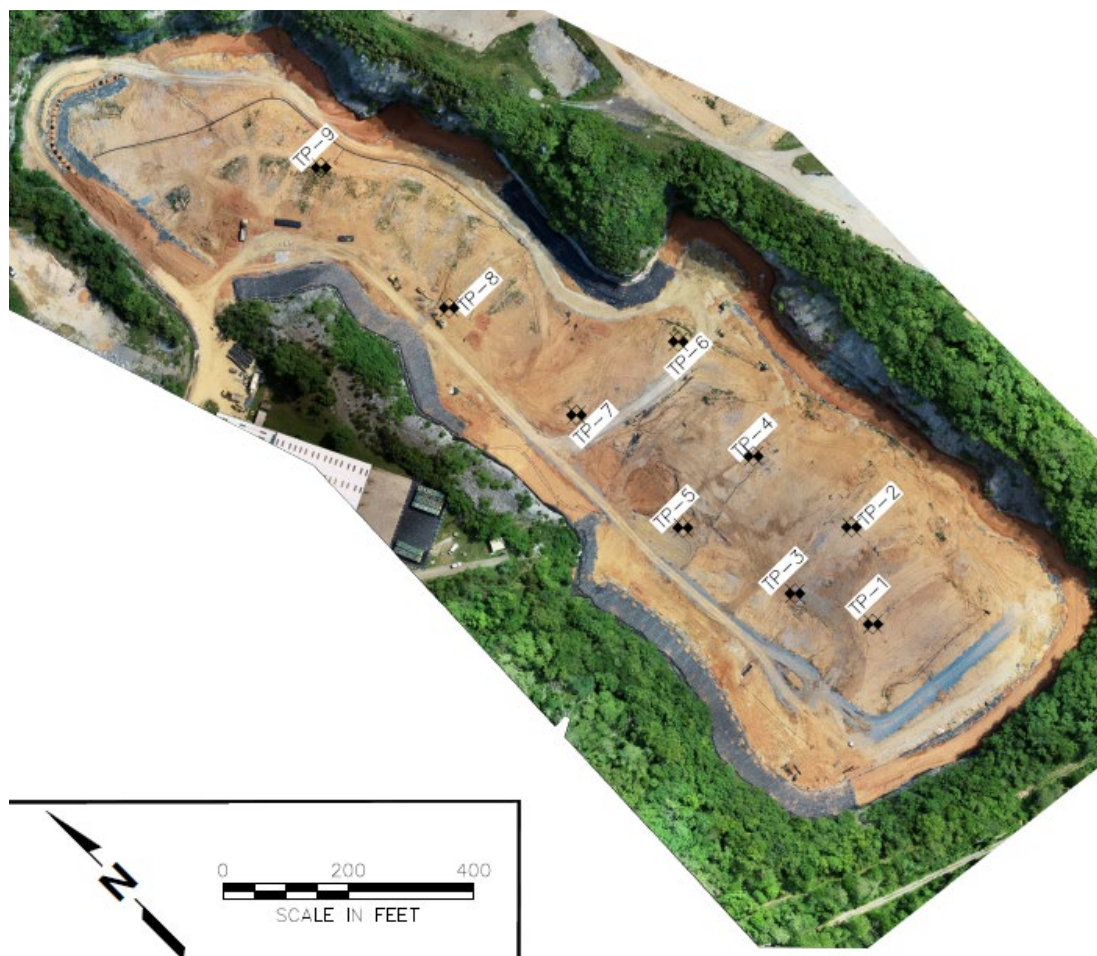
3.0 WASTE TEMPERATURE MONITORING

SCS designed a monitoring system to collect temperature data throughout the waste mass. The steps taken by the City to implement this system are described in the following sections.

3.1 SUMMARY OF WASTE TEMPERATURE MONITORING

Installation of the in-situ Landfill Temperature Monitoring System began in October of 2022 and installation of replacement sensors was completed in February of 2023. Details of construction progress can be found in the monthly compliance reports for the SWP No. 588 Landfill. The locations of the temperature probes are shown in **Figure 4**.

Figure 4. Temperature Monitoring Probe Locations



SCS began collecting temperature data daily on February 15, 2023.

Average daily temperatures recorded by the sensors for the month of May are included in **Appendix D**. Each week the average temperatures from a select day of that week are downloaded and compared to temperatures recorded during the previous week. Average daily temperatures recorded on select days during the month of May are shown in **Appendix B**. The average temperatures recorded for March 2023, March 2024, March 2025, April 2026, and May 2026 are shown in **Figures 5 through 9** on the following pages.

Overall, these data indicate that temperatures within the landfill are generally stable and are typical of those observed at elevated temperature landfills (ETLFs). The temperatures recorded are substantially lower than those associated with landfill fires or other combustion processes, which can exceed 1000°F, which is further evidence that the elevated temperatures are due to sources other than combustion.

3.1.1 Operational Challenges

Multiple thermocouples in TP-2 and TP-3 started to fault in late 2024/early 2025. SCS coordinated with the City in March 2026 to pull the string of thermocouples from TP-2 and TP-3 but were unable to remove the strings in either probe due to suspected pinching of the casings. TP-7 has been malfunctioning and offline since December 4, 2025. SCS OM&M relocated equipment that had been part of TP-2 to TP-7 in January, but the sensors at TP-7 still did not function. TP-2, TP-3, and TP-7 have been abandoned. The City has an invitation to bid currently open for the installation of three replacement probes per the Plan of Action Addendum dated February 2, 2026. Bidding closed on August 7, 2026.

3.1.2 Temperature Profiles

Temperature profiles for the operational thermocouple strings are shown in **Figures 5 - 9**. Temperatures profiles have been consistent throughout 2026, with peak temperatures between 200 and 275°F in TP-1, TP-5, and TP-8 and 150°F in TP-9.

The profile at TP-6 is an exception, where temperatures have declined below 200°F in 2025 and outlying temperature measurements have been recorded at 75 ft. Troubleshooting by field staff indicated that the sensor at the 75-foot level is malfunctioning. Given that the majority of the sensors within this casing are still functioning properly, the sensor at 75 ft will not be retrieved to avoid damaging the other sensors within the casing. Data from the 75-foot level of TP-6 has been excluded from this report.

Figure 5. TP-1 Average Temperatures for the Months of March 2023, March 2024, March 2025, March 2026, June 2026, and July 2026

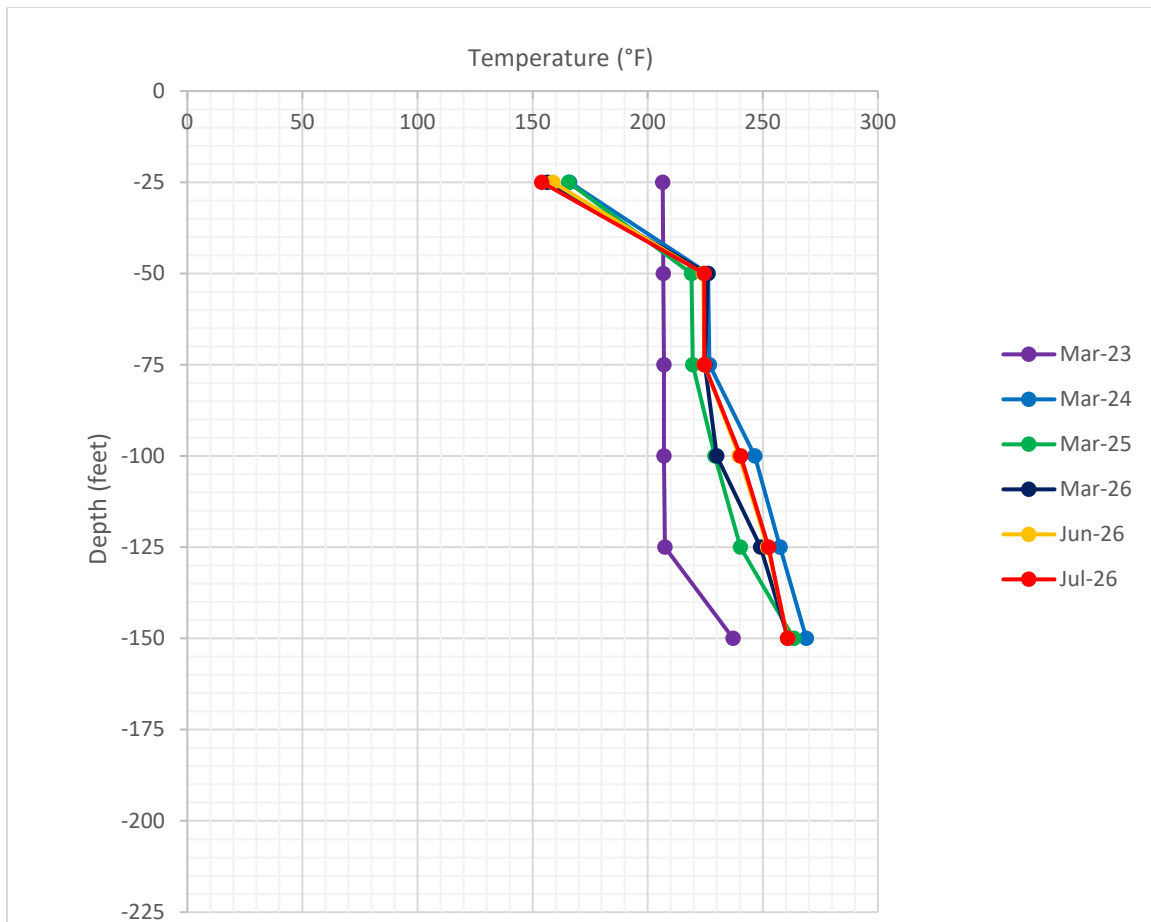


Figure 6. TP-5 Average Temperatures for the Months of March 2023, April 2024, March 2025, March 2026, June 2026, and July 2026

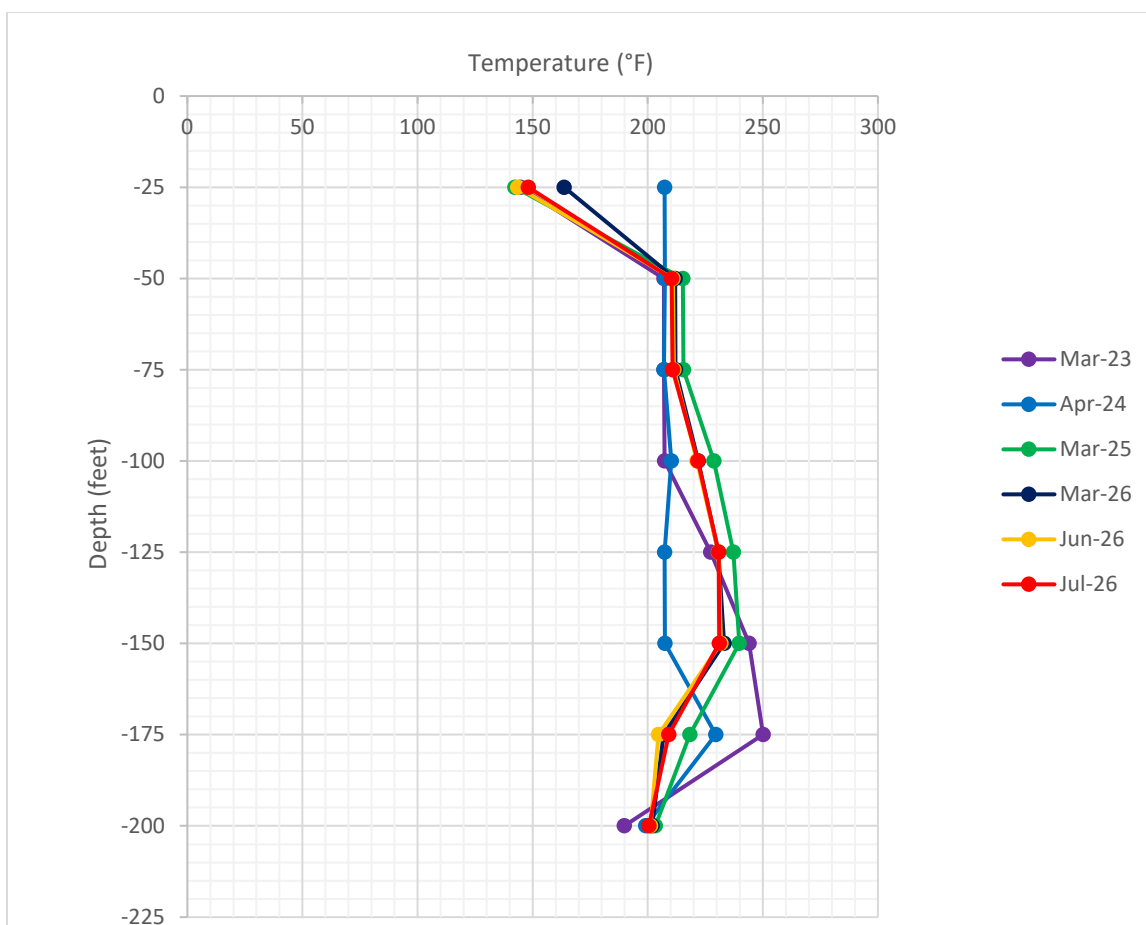


Figure 7. TP-6 Average Temperatures for the Months of March 2023, March 2024, March 2025, March 2026, June 2026, and July 2026

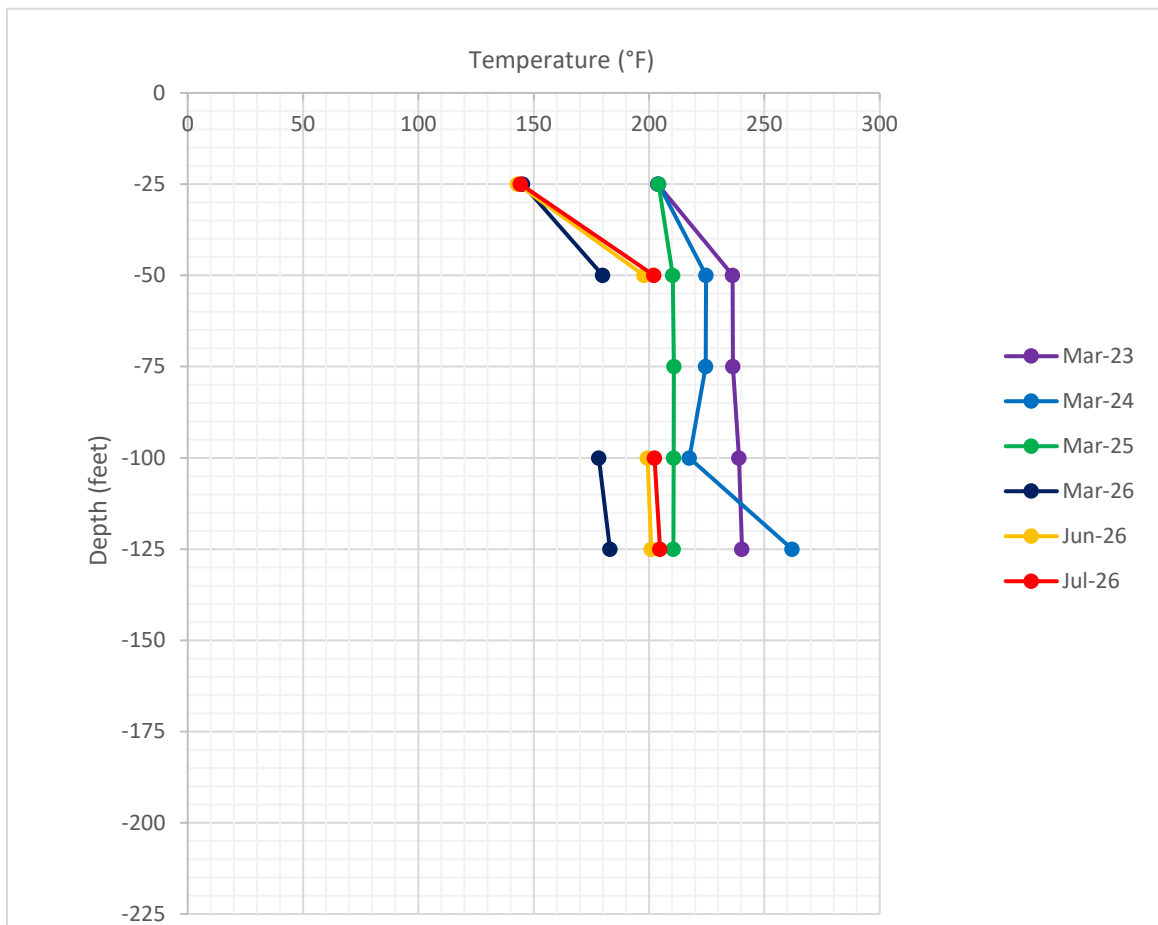


Figure 8. TP-8 Average Temperatures for the Months of March 2023, March 2024, March 2025, March 2026, June 2026, and July 2026

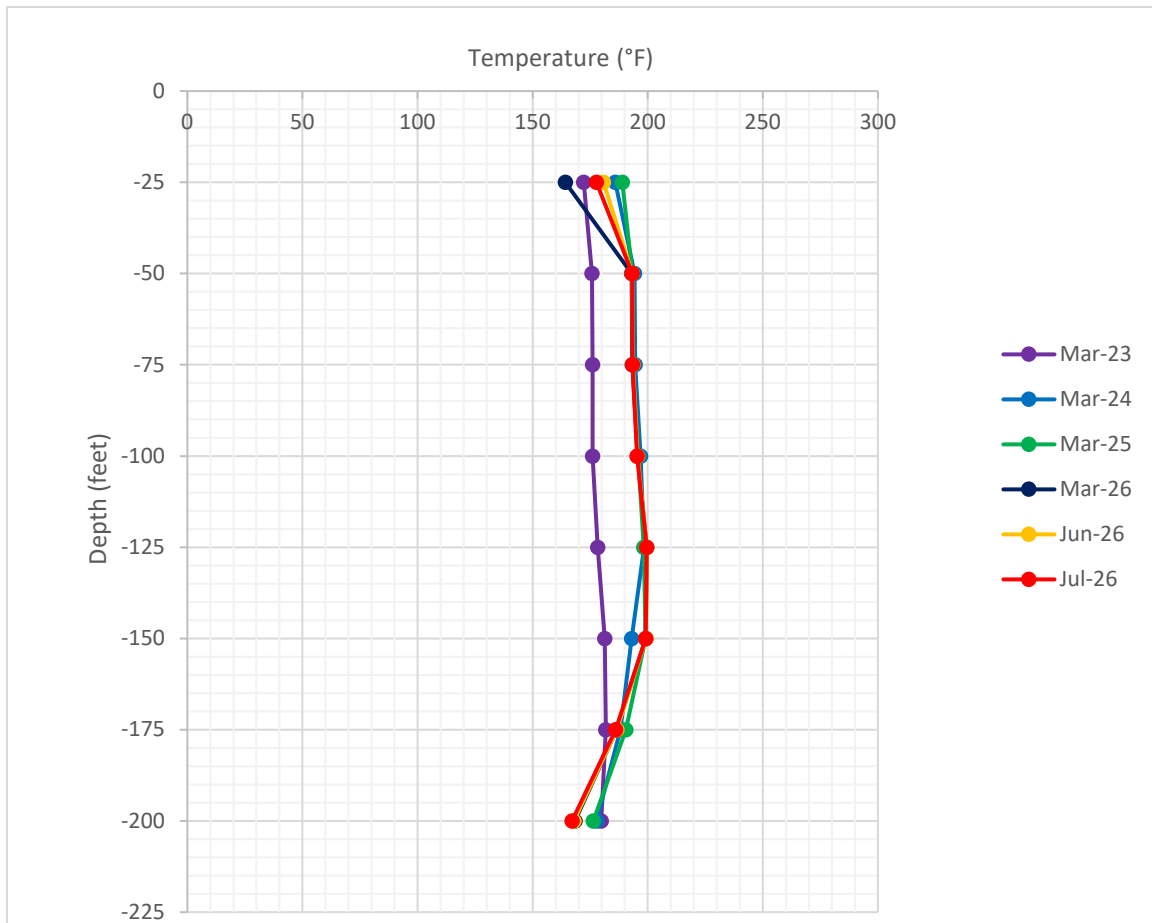
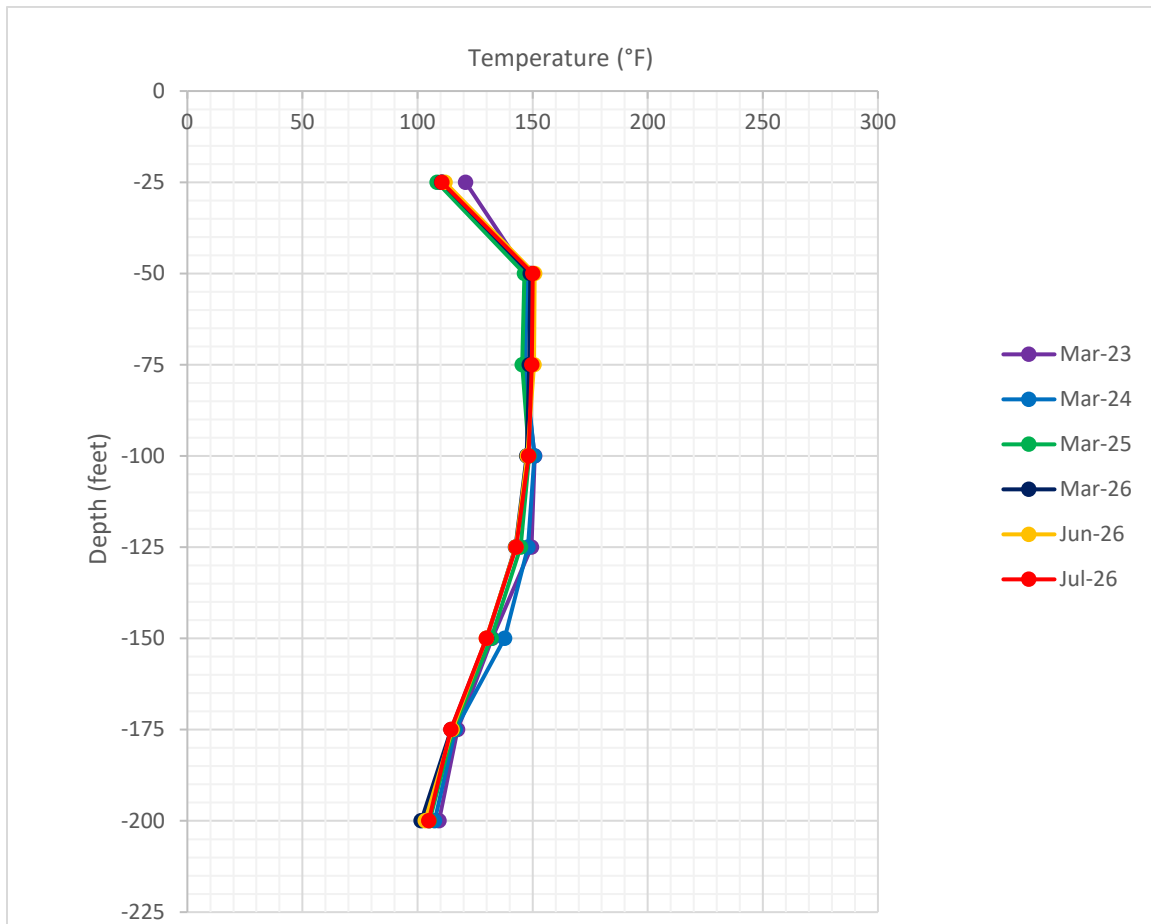


Figure 9. TP-9 Average Temperatures for the Months of March 2023, March 2024, March 2025, March 2026, June 2026, and July 2026



4.0 LEACHATE EXTRACTION AND MONITORING

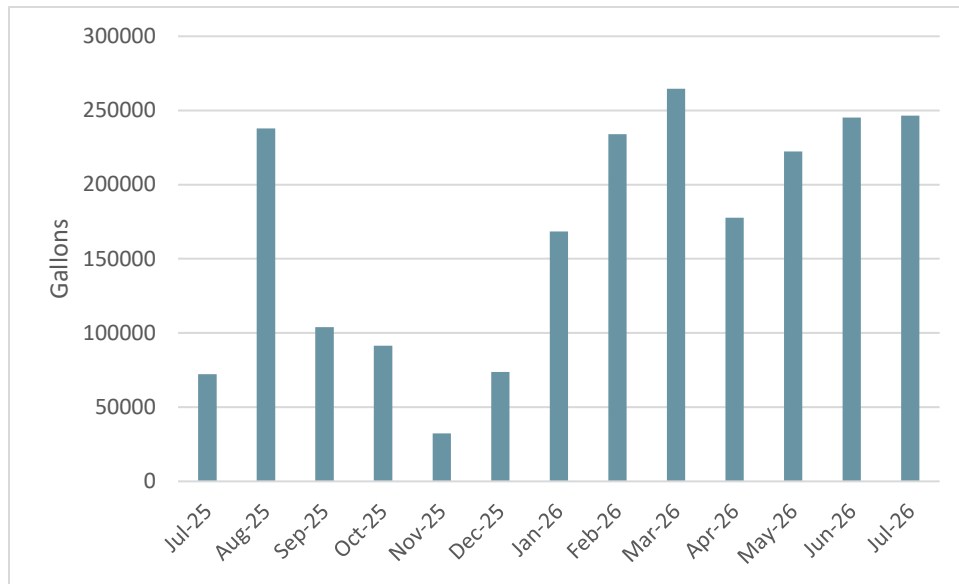
The City is continuously taking steps to maintain and improve the extraction of leachate from the waste mass and collect analytical data on leachate characteristics. The following sections detail steps taken to achieve these goals.

4.1 DEWATERING PUMP OPERATIONS AND MAINTENANCE

4.1.1 Total LFG Liquids Removal

Figure 10 illustrates monthly landfill gas liquids removal over the past year. The volume was estimated from stroke counter data for July 2025 through July 2026. Over the past 6 months, the estimated monthly leachate pumped has ranged from 177,700 to 264,600 gallons per month and has averaged 231,769 gallons per month.

Figure 10. Total Dewatering Liquid Removal



The Harnden Group began an LFG expansion construction project in September 2025, which necessitated pauses in the operation of dewatering pump infrastructure in December. During construction of the expansion, the City worked with the Harnden Group to replace sections of previously identified blocked forcemain piping as part of the project. Jet cleaning of the clogged leachate lines occurred in March and April, along with replacement of some of the most obstructed lines. Removal of blockages and clogging materials contributed to the increasing liquids removal.

4.1.2 LFG Liquids Pump Operations and Maintenance

The City and SCS understand that operations of dewatering pumps are critical to address issues related to heat, odors, and the efficient operation of the GCCS. The landfill conditions present a challenging environment for pump operations. Daily pump checks and maintenance of spare pumps will continue indefinitely, along with pump replacements as needed.

Estimated volumes of liquids removed at each pump are presented in **Table G-1, Appendix G**. SCS has prepared the summary below regarding operating conditions and specific challenges associated with each pump in July 2026.

Pump Maintenance Activities

- Pulled and swapped pumps in EW-52, EW-55, EW-59, EW-66, EW-67,, CS-2, CS-4 and CS-5.
- Tri-tubing repaired or replaced at EW-52, EW-54

Wells with Inactive Pumps

- The pump in EW-33B is stuck in the well casing and has been disconnected. SCS OM&M plans to remove the existing pump with heavy equipment and replace the pump with a new QED pump.

- SCS OM&M intends to place a QED pump in EW-36A.
- The pumps in EW-51, EW-57, EW-87, EW-90, and EW-100 are permanently stuck in their wells even after attempts to remove them with heavy equipment. They cannot be cleaned or repaired.
- All pump types deployed in EW-74 and EW-75 have experienced buildup on the intake screens preventing effective pump operation. To conserve resources for pumping in other wells, pumps are no longer being deployed in these wells.
- The casings of EW-81, EW-83, and EW-91 extend too high above the existing ground level for a pump to be safely accessed. These are stainless steel wells that cannot be lowered through conventional means; both due to the fusion methods required and a shorter solid section before perforation begins. SCS OM&M and the City are continuing placement of additional soil around the wells to provide safe access.
- Removal of the pump in EW-89 was attempted by SCS OM&M in January 2026. The pump became stuck about 30 feet down well, and camera equipment showed an apparent collapse in the well at about 31.5 feet. A new pump will not be installed at this well. This pump was permanently removed in April 2026.
- The pump in EW-93 has been removed due to clogging of the tri tubing and forcemain tee. The City and SCS OM&M are exploring additional forcemain pipe cleaning options to alleviate the buildup.

In addition to the challenges associated with the individual pumps, SCS OM&M has generally observed high forcemain pressures and significant build-up of solids within the forcemain. SCS OM&M and the City coordinate jetting and vacuuming of these lines as necessary.

4.2 SAMPLING AND ANALYSIS PLAN

In accordance with the second amendment to the consent decree dated January 16, 2026, the frequency of landfill gas liquids sampling has been reduced to quarterly.

4.2.1 Sample Collection

On July 14 and 15, 2026, SCS collected leachate samples from eight Dual Phase LFG extraction wells (EW-54, EW-55, EW-59, EW-66, EW-67, EW-68, EW-94, and EW-98) for the 3rd quarter 2026 monitoring event. Field measurements for dissolved oxygen, oxidation-reduction potential, pH, specific conductance, temperature, and turbidity were taken and recorded at the time of sample collection. The associated field logs are included in **Appendix F**. In July 2026, SCS field staff could not collect samples from the wells listed in **Table 6**. Additional details about the condition of these wells and planned maintenance activities are included in Section 4.1.2.

Table 6. Summary Wells Unable to be Sampled for Leachate

Wells With Pumps	Wells Without Pumps
• Pump was not running/cycling at the time of monitoring for the following wells: EW-49, EW-50, EW-62, EW-65, EW-78, and EW-85. • The liquid depth was not measured at the time of monitoring for EW-62 as the pump is slotted for maintenance or replacement.	• There was no pump at the time of the monitoring for the following wells: EW-33B, EW-36A, EW-52, EW-53, EW-56, EW-60, EW-61, EW-63, EW-64, EW-69, EW-70, EW-73, EW-76, EW-77, EW-79, EW-80, EW-81, EW-82, EW-83, EW-84, EW-86, EW-87, EW-88, EW-89, EW-91, EW-92, EW-93, EW-95, EW-96, EW-97, and EW-99. Without a pump, a leachate sample is not collected. • Additional information: – EW-33B, EW-63, EW-64, EW-77, EW-79, and EW-93 had the vacuum shut down and were unable to be approached during the time of monitoring. – The well was too tall to safely measure the liquid level for EW-91, EW-92, and EW-97. – The liquid depth was not measured at the time of monitoring for EW-36A, EW-53, EW-81, EW-83, EW-86, and EW-87 as gauging equipment has historically become stuck in the well. – The liquid depth was not measured at the time of monitoring for EW-52, EW-60, EW-88, EW-89, and EW-96 as the pump is slotted for maintenance or replacement.

The samples were delivered to Onterris (formerly Enthalpy Analytical) in Richmond, Virginia for analysis. The samples were analyzed for the parameters utilizing the analytical methods described in the Dual Phase Landfill Gas Extraction Well Leachate Monitoring Plan, December 1, 2022, prepared by SCS Engineers.

4.2.2 Quality Assurance and Quality Control

Field quality control (QC) involved the collection and analysis of trip blanks to verify that the sample collection and handling processes did not impair the quality of the samples. A Trip blank was prepared for VOC analysis via Solid Waste (SW)-846 Method 8260D. In conjunction with the preparation of the groundwater sample collection bottle set, laboratory personnel filled the trip blank sample bottle with distilled/deionized water and transported them with the empty bottle kit to SCS.

Field personnel handled the trip blank like a sample; they remained un-opened, were transported in the sample cooler, and were returned to the laboratory for analysis. A trip blank is used to indicate potential contamination due to the potential migration of VOCs from the air at the site or in the sample shipping containers, through the septum or around the lid of the sampling vials and into the sample.

Laboratory quality assurance/quality control (QA/QC) involves the routine collection and analysis of method reagent blanks, matrix spike (MS) and matrix spike duplicate (MSD) samples, and laboratory control samples (LCS). A summary of each of these is presented below:

- **Method Blank** – The method blank is deionized water subjected to the same reagents and manipulations to which site samples are subjected. Positive results in the method blanks may indicate either contamination of the chemical reagents or the glassware and implements used to store or prepare the sample and resulting solutions.
- **MS/MSD** – A MS is an aliquot of a field sample with a known concentration of target parameter added to it. An MSD is an intra-laboratory split sample spiked with a known concentration of target parameter. Spiking for each occurs prior to sample analysis. MS/MSD samples are collected for every batch of twenty or fewer samples. Matrix spike recoveries are used to indicate what effect the sample matrix may have on the reported concentration and/or the performance of the sample preparation and analysis.
- **LCS** – These samples consist of distilled/deionized water injected with the parameters of interest for single parameter methods and selected parameters for multi-parameter methods according to the appropriate analytical method. LCS samples are prepared and analyzed for each batch containing twenty or fewer samples. LCS recoveries are used to monitor analytical accuracy.

Surrogate recoveries are also measured as a part of laboratory QA/QC. Surrogates are organic compounds that are like the parameters of interest in chemical composition, extraction, and chromatography, but are not normally found in environmental samples. These compounds are inserted into blank, standards, samples, and spiked samples prior to analysis for organic parameters only. Percent recoveries are calculated for each surrogate. Spike recoveries at or below acceptance criteria indicate whether analytical results can be considered biased high or biased low.

No QC blank detects were identified for the July 2026 monitoring events. The laboratory analysis report for the July 2026 monitoring event trip blank is included in **Appendix F**. The July 2026 monitoring event laboratory QA/QC reports, including the method blank results, are included in the certificate of analysis (COA) in **Appendix F**.

4.2.3 Data Validation

Data from the monitoring events were validated by the Laboratory and SCS in accordance with United States Environmental Protection Agency (EPA) guidance². Data flagged with a “J” qualifier indicates the quantitation of the parameter is less than the laboratory’s limit of quantitation but greater than the laboratory’s limit of detection (LOD); thus, the concentration is considered

² United States Environmental Protection Agency. Guidance for Data Usability in Risk Assessment (Part A-14). April 1992.

United States Environmental Protection Agency. Office of Superfund Remediation and Technology Innovation. National Functional Guidelines for Inorganic Superfund Methods Data Review. November 2020.

United States Environmental Protection Agency. Office of Superfund Remediation and Technology Innovation. National Functional Guidelines for Organic Superfund Methods Data Review. November 2020.

estimated. Samples with concentrations less than five times that of the trip blank, field blank, and/or method blank concentration, but greater than the laboratory's LOD are flagged with a "B" qualifier. Samples with common laboratory concentrations less than 10 times that of the trip blank, field blank, and/or method/laboratory blank detection but greater than the laboratory's LOD are flagged with a "B" qualifier. Data with a "B" qualifier are considered not valid as the detection may be anomalous due to cross-contamination during sampling, transportation of samples, or laboratory analysis.

No leachate results were flagged with a "B" qualifier for the July 2026 monitoring events as there were no QC blank detections. The July 2026 detections flagged with a "J" qualifier are shown on **Table 7**.

4.2.1 Laboratory Analytical Results

The analytical results for the July 2026 leachate samples collected from extraction wells EW-54, EW-55, EW-59, EW-66, EW-67, EW-68, EW-94, and EW-98 are summarized in **Table 7**. The associated COA is included in **Appendix F**. Concentrations from July 2026 and previous monitoring events (November 2022 – April 2026) are presented in the Historical LFG-EW Leachate Monitoring Results Summary in **Appendix F**. Time-series plots of each VOC for EW-54, EW-55, EW-59, EW-66, EW-67, EW-68, EW-94, and EW-98 and the wells that have historically been sampled are included in **Appendix F**.

Table 7. Monthly LFG-EW Leachate Monitoring Event Summary

Well ID	EW-54	EW-55	EW-59	EW-66	EW-67	EW-68	EW-94	EW-98	LOD	LOQ
Parameter	July 2026 Concentration									
Ammonia as N (mg/L)	911	1480	---	1800	1590	---	---	123	60	100
	---	---	1880	---	---	2530	534	---	120	200
Biological Oxygen Demand (mg/L)	28600	35157	22400	34857	35157	27300	9720	1050	0.2	2
Chemical Oxygen Demand (mg/L)	---	---	36700	---	---	---	---	3580 J	3150	5000
	51100	64000	---	65000	63700	47100	36700	---	6300	10000
Nitrate (mg/L)	---	---	---	---	---	---	ND	ND	0.145	0.2
	ND	ND	ND	ND	ND	ND	---	---	0.145	0.5
Nitrite (mg/L)	---	---	---	---	---	---	ND	ND	0.03	0.1
	ND	ND	ND	ND	ND	ND	---	---	0.13	0.5
Phenolics, Total Recoverable (mg/L)	---	---	---	---	---	---	---	1.07	0.175	0.25
	31.7	---	---	---	---	---	---	---	1.54	2.5
	---	---	45.4	61.4	55.8	45.4	18.8	---	3.09	5
	---	56.4	---	---	---	---	---	---	6.18	10
Total Kjeldahl Nitrogen (mg/L)	1260	2060	2000	2310	2280	3400	545	112	45.9	50
SEMI-VOLATILE ORGANIC COMPOUND (ug/L)										
Anthracene	---	---	---	---	---	---	ND	ND	100	200
	ND	ND	ND	ND	ND	ND	---	---	1000	2000
TOTAL METALS (mg/L)										
Arsenic	0.15	0.11	0.26	0.15	0.16	0.31	0.076	0.053	0.0015	0.004
Barium	2.56	3.02	1.55	2.48	3.1	5.13	1.04	0.192	0.0057	0.05
Cadmium	ND	ND	ND	ND	0.00677	0.00112 J	0.0109	ND	0.0005	0.004
Chromium	0.26	0.252	0.168	0.364	0.342	0.189	0.0282	0.00873 J	0.0032	0.01

Table 7. Monthly LFG-EW Leachate Monitoring Event Summary

Well ID	EW-54	EW-55	EW-59	EW-66	EW-67	EW-68	EW-94	EW-98	LOD	LOQ
Parameter	July 2026 Concentration									
TOTAL METALS (mg/L)										
Copper	ND	0.00481 J	ND	ND	0.00433 J	0.00401 J	ND	ND	0.0036	0.01
Lead	---	0.022	0.0012	---	---	---	0.001	ND	0.00025	0.001
	0.016	---	---	0.0086 J	0.013	ND	---	---	0.0025	0.01
Mercury	---	0.00374	0.000593	---	---	---	0.0063	0.000289	0.000027	0.0002
	0.00907	---	---	0.00075 J	0.00677	0.00248	---	---	0.00027	0.002
Nickel	0.0693	0.02699	0.02821	0.06129	0.06637	0.05362	0.01287	0.005737 J	0.0025	0.01
Selenium	0.00286 J	0.00349 J	0.00324 J	0.0035 J	0.00295 J	0.00374 J	ND	ND	0.0018	0.01
Silver	ND	ND	ND	0.000144 J	ND	ND	ND	ND	0.00011	0.001
Zinc	0.00286 J	0.00349 J	0.00324 J	0.0035 J	0.00295 J	0.00374 J	ND	ND	0.0018	0.01
VOLATILE FATTY ACIDS (mg/L)										
Acetic Acid	---	---	---	---	---	---	---	157	7.1	50
	---	---	---	---	---	---	1090	---	14.3	100
	4960	7640	4440	7660	7770	4770	---	---	71.4	500
Butyric Acid	---	---	---	---	---	---	378	77.2	7	50
	1570	2100	1050	1900	2100	894	---	---	70.3	500
Lactic Acid	---	---	---	---	---	---	132	7.1 J	5.6	50
	1500	1410	566	1610	1450	279 J	---	---	55.7	500
Propionic Acid	---	---	---	---	---	---	400	55.2	5.7	50
	1110	2630	1360	2290	2520	1580	---	---	57.3	500
Pyruvic Acid	---	---	---	---	---	---	25 J	11.6 J	8.9	50
	144 J	179 J	157 J	176 J	187 J	169 J	---	---	88.9	500

Table 7. Monthly LFG-EW Leachate Monitoring Event Summary

Well ID	EW-54	EW-55	EW-59	EW-66	EW-67	EW-68	EW-94	EW-98	LOD	LOQ
Parameter	July 2026 Concentration									
VOLATILE ORGANIC COMPOUNDS (ug/L)										
2-Butanone	12500	1790	26900	9660	9510	21800	16700	12500	97	100
Acetone	---	24500	---	---	---	---	---	14800	277	400
	---	---	7300	---	---	---	---	---	692	1000
	30800	---	---	32700	26200	71000	56200	---	1380	2000
Benzene	---	---	---	---	---	---	---	---	0.14	1
	395	30 J	795	283	97	556	150	10800	13.9	40
Ethylbenzene	---	---	---	---	---	---	---	---	0.15	1
	16 J	ND	44	24 J	ND	53	ND	1300	15.1	40
Tetrahydrofuran	---	---	---	---	---	---	---	---	0.75	10
	4070	655	6460	3380	3040	5570	5000	14100	75.4	100
Toluene	---	---	---	---	---	---	---	---	0.16	1
	22 J	ND	45	27 J	ND	57	ND	880	16	40
Xylenes	ND	ND	75 J	52 J	ND	94 J	ND	2670	43.8	300

--- = not applicable

J = Constituent was detected at a concentration above the laboratory's LOD but below the laboratory's LOQ. Concentration is estimated and not validated.

LOD = laboratory's Limit of Detection

LOQ = laboratory's Limit of Quantitation

mg/L = milligrams per liter

ND = Not Detected

ug/L = micrograms per liter

5.0 SETTLEMENT MONITORING AND MANAGEMENT

The City is taking steps to track and manage settlement occurring in the landfill. A summary of actions taken to quantify and manage settlement is included in the sections below.

5.1 SETTLEMENT MONITORING AND MANAGEMENT PLAN

Information about the Settlement Monitoring and Management Plan for the SWP No. 588 Landfill and a copy of the plan can be found in the November 2022 Compliance Report for the SWP No. 588 Landfill.

5.2 MONTHLY SURVEYS

5.2.1 Topographic Data Collection

SCS collected topographic data of the Solid Waste Permit No. 588 Landfill using photogrammetric methods via an unmanned aerial vehicle (UAV or drone) on July 15, 2026. Aerial imagery collected on July 15, 2026, is depicted in **Figure 11**. The topographic data collected is shown on Sheet 4 in **Appendix E**.

Figure 11. Aerial Photo of the SWP No. 588 Landfill



The topography within the landfill footprint was compared to topographic data collected by SCS using photogrammetric methods on June 17, 2026. A drawing depicting the June 17, 2026, topography is included as Sheet 3 in **Appendix E**.

Based on a comparison of the topographic data collected on those two dates, the data shows a fill of 4,900 cubic yards across the site. Fill is placed and spread on the site to address differential settlement, surface emissions, and to provide access to LFG collection vertical wells. Fill was also placed in the northern end of the landfill as part of the installation of a new landfill gas header in that part of the landfill.

Vegetation growth, which may occur during the spring and summer months may also be misinterpreted as fill by the photogrammetric survey methods. In some cases, the top of vegetation is measured using this survey method rather than the ground surface. Much of the atypical fill volume shown in comparison with the June 17, 2026 data is likely attributable to vegetation growth along the sidewall. As shown in Figure 11, these vegetated areas correspond to some of the most extreme apparent fill locations. An example of vegetation growth on the sidewalls is shown in a photo in Figure 12.

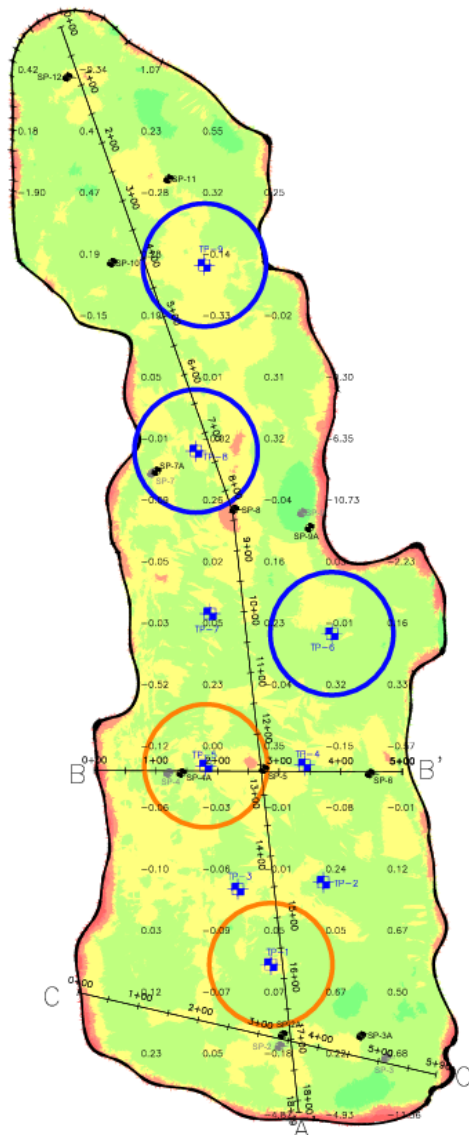
Figure 12. Vegetation Growth on Quarry Sidewalls



During that same time period, calculations indicate a “cut” volume of approximately 8,400 cubic yards. Cut volumes are typically attributed to settlement. This resulted in a net decrease in volume within the waste footprint of 3,500 cubic yards.

A visual depiction of settlement and filling at the landfill during this time is depicted in **Figure 13**. Areas in yellow indicate where elevations decreased and areas in green and blue indicate areas where elevations have increased. Darker colors indicate greater changes in elevation. This drawing is also included as Sheet 5 in **Appendix E**.

Figure 13. 1-Month Elevation Change Map



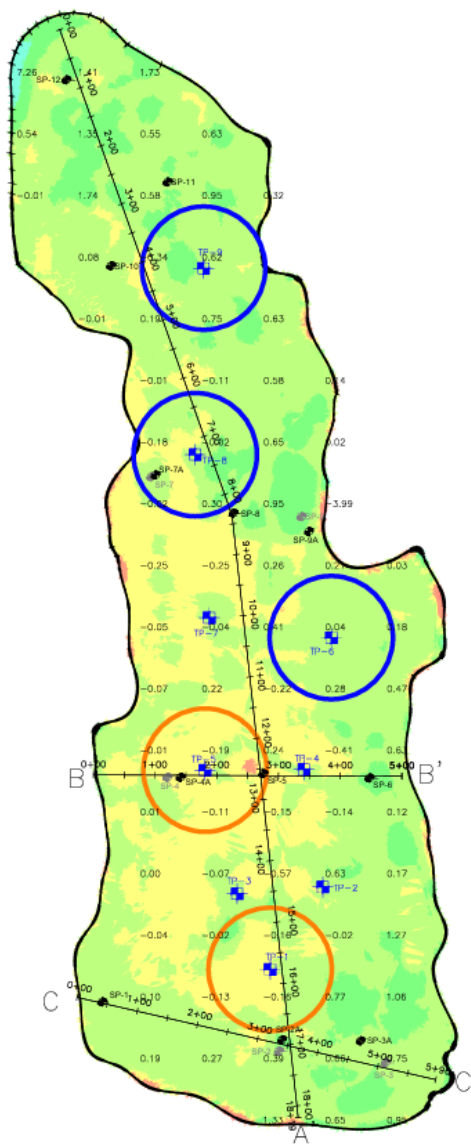
The locations of in-waste temperature monitoring probes are also shown on **Figure 13**, **Figure 14**, and **Figure 15**. The circles around the probes in each of these figures are indicative of the average borehole temperature. The circles shown are offset from the probes for clarity only and do not necessarily indicate temperatures measured at locations away from the probe. Probes with a blue circle around them typically have an average temperature less than 200 °F across the full depth of the probe. Probes with an orange circle around them typically have an average temperature greater than 200 °F and less than 250 °F across the full depth of the probe. Probes with no circle around them had no temperature readings for this month due to sensor malfunctions. There were no probes measuring average temperatures greater than 250 °F during the month of July 2026.

SCS calculated the waste footprint for purposes of analysis to be 752,610 square feet. Based on that area and the net volume change, the average elevation decrease between the flyover dates was 0.1 ft.

SCS also compared the topographic data collected in July to the topographic data collected on April 8, 2026. Based on a comparison of the topographic data collected on those two dates, settlement occurred that reduced the volume of waste in the landfill by approximately 1,500 cubic yards. During that same period, calculations indicate approximately 11,500 cubic yards of fill were placed on the landfill, for a net increase in waste volume of 10,000 cubic yards.

A visual depiction of settlement and filling at the landfill during this time is depicted in **Figure 14**. Areas in orange and yellow indicate where elevations decreased and areas in green and blue indicate areas where elevations have increased. Darker colors indicate greater changes in elevation. This drawing is also included as Sheet 6 in **Appendix E**.

Figure 14. 3-Month Elevation Change Map

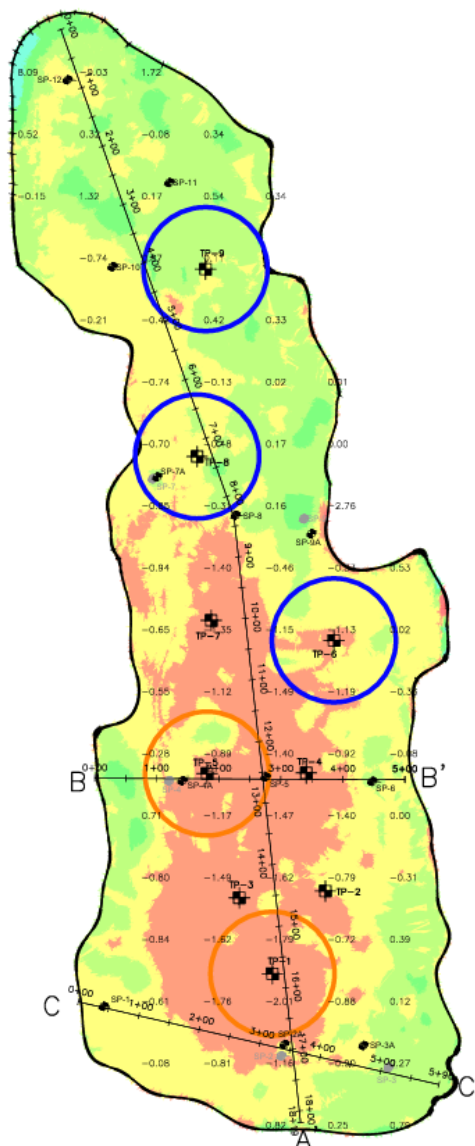


Based on the area of the landfill and the net volume change, the average elevation increase was approximately 0.4 feet.

SCS also compared the topographic data collected in July 2026 to the drone topographic data collected on July 29, 2025. Based on a comparison of the topographic data collected on those two dates, settlement occurred that reduced the volume of waste in the landfill by approximately 16,000 cubic yards. During that same time period approximately 5,100 cubic yards of construction-related fill were placed on the landfill. This resulted in a net volume decrease of approximately 11,000 cubic yards.

A visual depiction of settlement and filling at the landfill during this time is depicted in **Figure 15**. Areas in red and yellow indicate where elevations decreased and areas in green and blue indicate areas where elevations have increased. Darker colors indicate greater changes in elevation. This drawing is also included as Sheet 7 in **Appendix E**.

Figure 15. 1-Year Elevation Change Map



The largest settlement in the past year occurred primarily at the southern end of the landfill where the waste settled by 3 feet or more in some areas. Significant settlements are typical of elevated temperature landfill conditions. The landfill perimeter exhibited an increase in elevation, likely due to soil placement associated with construction and/or ongoing maintenance of the Sidewall Odor Mitigation System. There were variations in elevation associated with soil stockpiling operations.

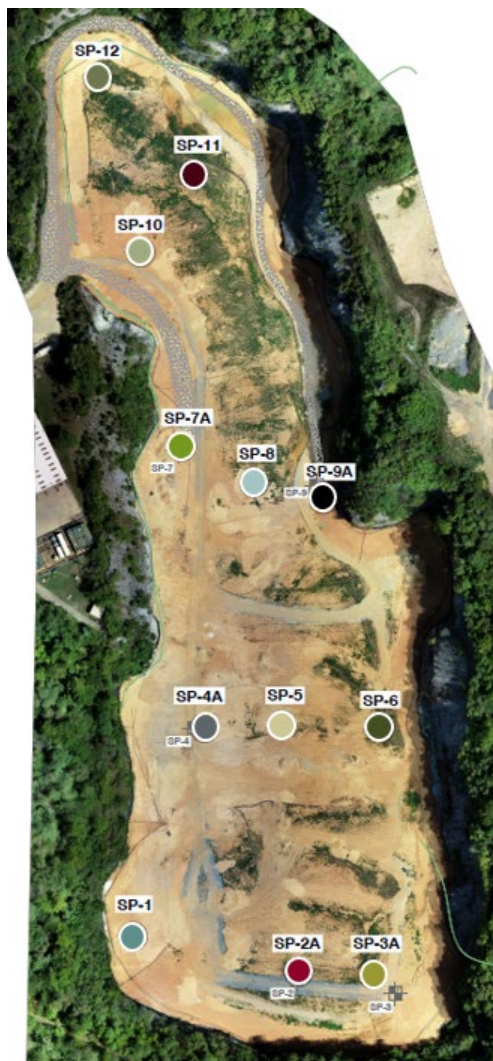
Based on the landfill area and the net volume change, the average elevation decrease in the past year was approximately 0.4 feet.

SCS will collect topographic data covering the landfill surface again in August 2026 using photogrammetric methods via UAV. This data will be compared to the data collected in August 2025, May 2026, and July 2026.

5.2.2 Settlement Plate Surveys

On November 7, 2022, SCS field services installed 12 settlement plates on the Solid Waste Permit No. 588 landfill. Five new settlement plates (SP-2A, SP-3A, SP-4A, SP-7A, and SP-9A) installed during June 2024 are intended to replace non-operational settlement plates. The settlement plate locations are depicted in **Figure 16** and on Sheet 1 in **Appendix E**. The construction and installation of the settlement plates generally conform to the description in the Settlement Monitoring and Management Plan.

Figure 16. Settlement Plate Locations



The locations of the settlement plates were initially surveyed on November 14, 2022, and have been surveyed monthly thereafter. The survey coordinates and elevation changes of the settlement plates are shown in **Table 6**.

Table 8. Elevation and Strain Data at Settlement Plate Locations

Settlement Plate	Northing	Easting	Elevation on July 9, 2026 (ft)	Elevation Change Since June 9, 2026 (ft)	Strain ³ Since June 9, 2026	Elevation Change Since Installation (ft)
SP-1	3397887.8	10412081.2	1828.0	-0.1	-0.1%	-6.5
SP-2A ⁴	3397823.7	10412370.9	1790.7	0.1	0.1%	-5.1
SP-3A	3397820.3	10412498.0	1778.5	0.1	0.1%	-1.7
SP-4A	3398246.8	10412208.2	1800.7	-0.1	-0.1%	-4.4
SP-5	3398255.9	10412339.9	1786.0	0.1	0.0%	-14.7
SP-6	3398248.8	10412509.9	1772.0	0.0	0.0%	-5.7
SP-7A	3398731.2	10412158.6	1821.2	0.0	0.0%	-2.3
SP-8	3398677.8	10412290.8	1798.4	-0.1	0.0%	-8.9
SP-9A	3398644.1	10412416.0	1787.5	-0.1	-0.1%	-1.2
SP-10	3399079.6	10412095.5	1835.4	0.1	0.0%	-4.1
SP-11	3399216.5	10412183.8	1814.0	0.1	0.0%	-2.4
SP-12	3399381.8	10412019.6	1809.2	0.0	0.0%	-1.5

Prior to April 2024, the City's in-house surveyor read the settlement plate elevations. Starting April 2024 through June 2025, the settlement plate elevations were measured by FEI Civil Engineers and Land Surveyors. As of July 2025, the settlement plate elevations are measured by Miller Land Surveying LLC.

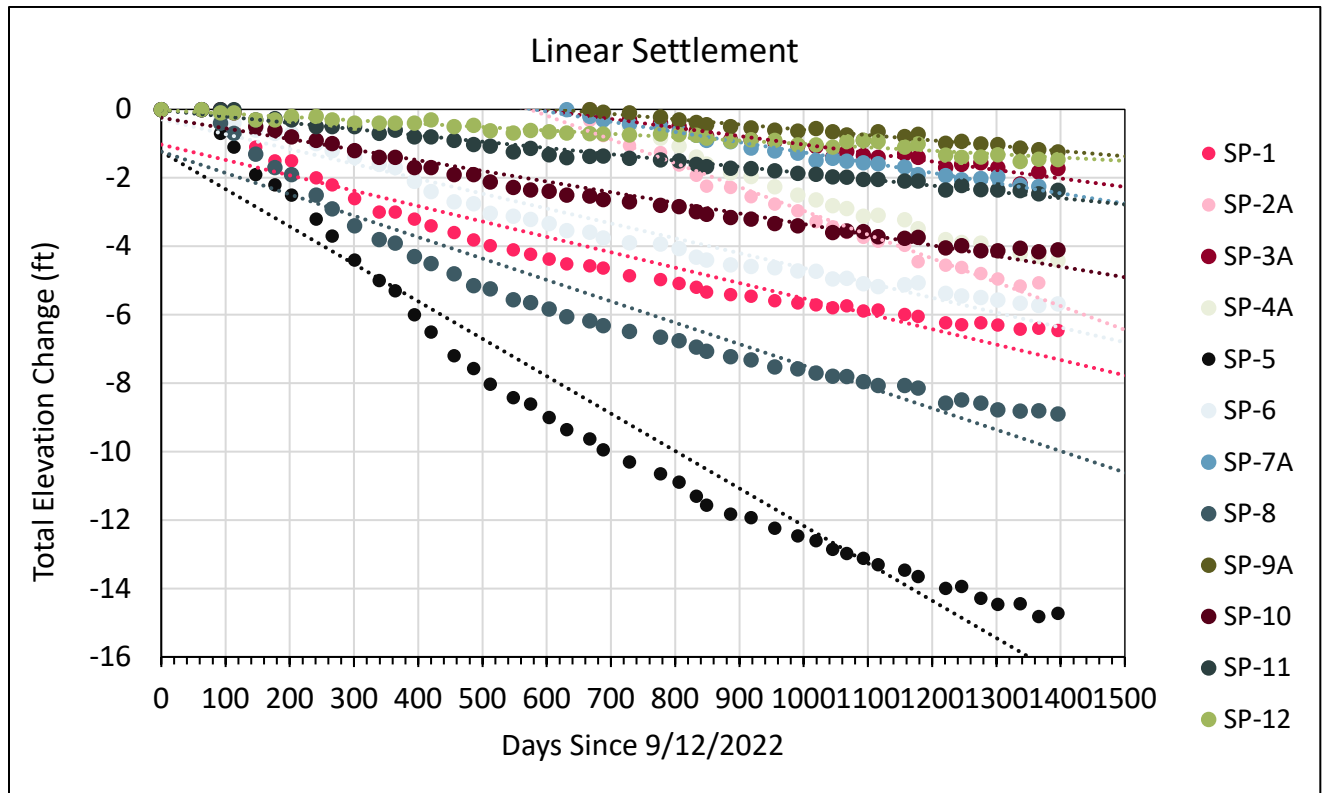
Settlement was observed at SP-1, SP-4A, SP-8, and SP-9A. These plates are located in the middle to southern end of the landfill. The southern area of the landfill is the location of the gas wells and temperature probes exhibiting higher temperatures.

Figure 17 shows the changes in elevation of select settlement plates over time. The data in **Figure 17** are reported in days since the landfill was required to stop accepting waste.

³ Strain is defined as the change in elevation divided by the estimated waste depth.

⁴ SP-2A was measured on 7/14/2026

Figure 17. Elevation Change of Select Settlement Plates Over Time



The settlement plates will be surveyed again during August 2026. The elevations surveyed will be compared to the elevations surveyed the previous months.

6.0 INTERMEDIATE COVER AND GEOMEMBRANE COVER SYSTEM

The City has taken steps to provide intermediate and temporary cover of the wastes in the landfill. The sections below describe the steps taken by the City and future plans related to cover.

6.1 INTERMEDIATE COVER INSTALLATION

A summary of the intermediate cover installation can be found in the October 2022 Monthly Compliance Report for the SWP No. 588 Landfill.

6.2 GEOMEMBRANE COVER SYSTEM DESIGN

A second amendment to the Consent Decree was issued on January 16, 2026 which requires a geomembrane deployment once the criteria outlined in the consent decree are achieved. The amended Consent Decree also requires regular settlement assessments that will analyze settlement to evaluate if the criteria have been met. The first settlement assessment was submitted to VDEQ on April 11, 2024. The most recent assessment was submitted on July 14, 2026. The next assessment

will be submitted on or before January 15, 2027 in accordance with the second amendment to the consent decree dated January 16, 2026.

6.3 GEOMEMBRANE COVER SYSTEM PROCUREMENT

Information about the procurement of materials for the geomembrane cover system can be found in the January 2023 Monthly Compliance Report for the SWP No. 588 Landfill.

6.4 GEOMEMBRANE COVER SYSTEM INSTALLATION

As outlined in the second amendment to the Consent Decree dated January 16, 2026, the deadline for geomembrane cover system installation has been extended until such time as the criteria outline in the consent decree have been met. The City is conducting the assessments described in Section 6.2 to determine the appropriate time for installation.

7.0 STORMWATER MANAGEMENT

Information about the most recent stormwater management plans, basin location, plan implementation, long-term control, and stormwater monitoring for the SWP No. 588 Landfill can be found in the December 2023 Monthly Compliance Report for the SWP No. 588 Landfill.

8.0 MISCELLANEOUS

8.1 CEASE WASTE ACCEPTANCE

The City ceased acceptance of offsite waste at the Solid Waste Permit No. 588 landfill prior to September 12, 2022.

8.2 LONG-TERM PLAN

Refer to the December 2022 and March 2023 Monthly Compliance Reports for the SWP No. 588 Landfill for additional information about the development and implementation of the Monitoring, Maintenance, and Repair Plan.

8.3 MONTHLY COMPLIANCE REPORTS

As described in the introduction, this report is intended to provide comprehensive updates regarding progress towards completion of each item described in Appendix A of the Consent Decree between the City and VDEQ.

8.4 COMMUNITY OUTREACH PROGRAM

The City's consultant leading community outreach, McGuireWoods Consulting, prepared a summary of the actions taken as part of their community outreach efforts. For the month of June 2026, those actions include:

- **Ongoing basis:** Five (5) posts on each the BristolVALandfill.org site and the existing City of Bristol Landfill Notifications and Information page covering important updates including:

- Progress updates related to remediation efforts and normal maintenance activities at the Landfill.
- Updates at the Landfill this month included training staff for use of the new emergency generator; tuning landfill gas wells to operate at maximum efficiency with the new flare; routine maintenance on the landfill gas system and well heads; regrading the leachate extraction force main and lateral piping to improve efficiency; placing stone under the new gas header to ensure it sits at the proper grade; adjusting the condensation extraction system; cleaning reserve leachate pumps; and adding soil to areas that have been affected by settlement issues.
- **Weekly updates on landing page on Bristolvalandfill.org titled “Air Sampling and Air Monitoring” that includes a summary of the air sampling and monitoring being conducted by Bristol, VA around the landfill.**
 - Website now includes weekly air monitoring reports starting from May 15, 2023, and running through June 28, 2026.
 - As noted in the ongoing updates, the air monitoring equipment that was responsible for the period of inactivity due to in not being calibrated correctly has been fixed. The air monitoring system is back online and functioning properly.
- **E-mail communication sent to the list of members of the public signed up through the Bristol, VA website, the BristolVALandfill.org website, or at subsequent Open Houses to receive information via e-mail**
 - E-mails sent included weekly remediation progress update and links to website updates and latest news articles.



Appendix A

Surface Emissions Monitoring Summary

Quarterly SEM

SCS performed the Second Quarter 2026 surface emissions monitoring event on May 28, 2026. The surface emissions monitoring route included the entire waste footprint of the Permit No. 588 landfill. Sampling was conducted with Elkins Earthworks IRwin ProSEM at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint.

No exceedances were detected during this quarterly monitoring event on the serpentine route or at the surface cover penetrations. This monitoring event also represented the weekly monitoring event for the week. A quarterly SEM report will be submitted to the VDEQ as part of the Semi-Annual Report. In addition, monitoring results were presented to the VDEQ in a letter dated June 3, 2026.

Weekly SEM

In addition to the standard regulatory quarterly surface emissions monitoring, the monitoring in July generally conformed to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The SEM route included the waste footprint of the Permit No. 588 landfill. Sampling was conducted with a Elkins Earthworks IRwin ProSEM at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at applicable surface cover penetrations within the waste footprint.

The Facility submitted letters to VDEQ describing the results of the July monitoring events on July 8, 2026; July 15, 2026; July 22, 2026; July 29, 2026; and, August 5, 2026. Copies of those letters are included in this Appendix.

The Facility continues to take proactive steps to limit fugitive surface emissions including dewatering activities, additional cover soil placement, and LFG system maintenance and tuning to increase gas extraction.

July 8, 2026
File No. 02218208.04

Ms. Susan "Tracey" Blalock
Air Compliance Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – July 2, 2026
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Ms. Blalock:

On behalf of the City of Bristol (City), SCS Engineers (SCS) is pleased to submit the results of the Weekly Surface Emissions Monitoring event performed at the Bristol Integrated Solid Waste Management Facility located in Bristol, Virginia on July 2, 2026. This Weekly Surface Emissions Monitoring (SEM) Event was performed in accordance with Appendix A.1.i of the Consent Decree between the Commonwealth of Virginia and the City of Bristol.

The monitoring generally conforms to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The monitoring route includes the entire waste footprint of Permit No. 588 Landfill. Sampling was conducted with an Inficon IRwin infrared (IR) Methane Leak Detector at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint, including at the temperature probes and horizontal collectors. The approximate monitoring route and sampling locations are presented in the attached Drawing.

At the time of monitoring, all areas of the Permit No. 588 Landfill footprint are subject to regulatory monitoring based on the regulatory schedule stipulated in 40 CFR 63.1960(b) and 40 CFR 60.36f(b). Permit No. 588 Landfill has a surface area of approximately 17.3 acres. Therefore, the minimum number of sampling points to cover the appropriate portion of the landfill footprint, utilizing a 30-meter grid interval, is approximately 82 (4.75 points per acre). A summary of the results of the surface emissions monitoring is provided in Table 1.



Table 1. Summary of Surface Emissions Monitoring

Description	Quantity
Number of Points Sampled	167
Number of Points in Serpentine Route	100
Number of Points at Surface Cover Penetrations	67
Number of Exceedances	2
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	2

REMONITORING OF ONGOING EXCEEDANCES

In accordance with 40 CFR 63.1960(c)(4)(ii) and 40 CFR 60.36f(c)(4)(ii), corrective actions and a remonitoring event are to be performed within 10 days of the initial exceedance. In accordance with 40 CFR 63.1960(c)(4)(iii) and 40 CFR 60.36f(c)(4)(iii) additional corrective actions and a second 10-day retest are to be performed if the initial 10-day retest indicates methane values greater than the regulatory threshold. The Facility performs corrective actions, as necessary, including wellhead vacuum adjustments, the installation of well-bore seals, and addition of soil cover prior to weekly monitoring events at locations that previously exhibited elevated methane concentrations.

In accordance with 40 CFR 63.1960(c)(4)(v) and 40 CFR 60.36f(c)(4)(v) a new well or collection device must be installed or an alternate remedy must be submitted within 120 days at locations that continue to exhibit methane concentrations above the regulatory threshold for two consecutive re-tests.

A summary of ongoing exceedance points is provided in Table 2.

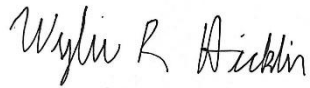
Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	7/2/26 Event	7/2/26 Event Result	Comments
EW-55	6/25/26	10-Day Retest	Failed	Requires 2 nd 10-Day Retest

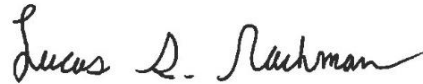
Ms. Susan "Tracey" Blalock
July 8, 2026
Page 3

If you have questions or require additional information, please contact either of the undersigned.

Sincerely,



Wylie R Hicklin
Staff Professional
SCS Engineers



Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: Jonathan Hayes, City of Bristol
Laura Helander, City of Bristol

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS WEEKLY MONITORING EVENT - JULY 2, 2026 BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA					
ID #	Methane Concentration	Compliance	GPS Coordinates Lat. Long.		Comments
1	0.0 PPM	OK			Start Serpentine Route
2	0.0 PPM	OK			
3	0.0 PPM	OK			
4	0.0 PPM	OK			
5	0.0 PPM	OK			
6	0.0 PPM	OK			
7	0.0 PPM	OK			
8	0.0 PPM	OK			
9	0.0 PPM	OK			
10	0.0 PPM	OK			
11	0.0 PPM	OK			
12	0.0 PPM	OK			
13	2.0 PPM	OK			
14	0.0 PPM	OK			
15	0.0 PPM	OK			
16	18.0 PPM	OK			
17	4.0 PPM	OK			
18	0.0 PPM	OK			
19	0.0 PPM	OK			
20	0.0 PPM	OK			
21	0.0 PPM	OK			
22	0.0 PPM	OK			
23	0.0 PPM	OK			
24	0.0 PPM	OK			
25	42.0 PPM	OK			
26	0.0 PPM	OK			
27	0.0 PPM	OK			
28	0.0 PPM	OK			
29	0.0 PPM	OK			
30	5.0 PPM	OK			
31	0.0 PPM	OK			
32	7.0 PPM	OK			
33	0.0 PPM	OK			
34	2.0 PPM	OK			
35	7.0 PPM	OK			
36	1.0 PPM	OK			
37	0.0 PPM	OK			
38	0.0 PPM	OK			
39	0.0 PPM	OK			
40	0.0 PPM	OK			
41	9.0 PPM	OK			
42	0.0 PPM	OK			
43	0.0 PPM	OK			
44	0.0 PPM	OK			
45	1.0 PPM	OK			
46	0.0 PPM	OK			
47	0.0 PPM	OK			
48	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 2, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
49	0.0 PPM	OK			
50	0.0 PPM	OK			
51	0.0 PPM	OK			
52	0.0 PPM	OK			
53	0.0 PPM	OK			
54	0.0 PPM	OK			
55	5.0 PPM	OK			
56	0.0 PPM	OK			
57	0.0 PPM	OK			
58	1.0 PPM	OK			
59	0.0 PPM	OK			
60	0.0 PPM	OK			
61	0.0 PPM	OK			
62	11.0 PPM	OK			
63	0.0 PPM	OK			
64	0.0 PPM	OK			
65	0.0 PPM	OK			
66	19.0 PPM	OK			
67	0.0 PPM	OK			
68	0.0 PPM	OK			
69	4.0 PPM	OK			
70	0.0 PPM	OK			
71	7.0 PPM	OK			
72	0.0 PPM	OK			
73	0.0 PPM	OK			
74	0.0 PPM	OK			
75	0.0 PPM	OK			
76	0.0 PPM	OK			
77	0.0 PPM	OK			
78	0.0 PPM	OK			
79	0.0 PPM	OK			
80	0.0 PPM	OK			
81	0.0 PPM	OK			
82	0.0 PPM	OK			
83	0.0 PPM	OK			
84	0.0 PPM	OK			
85	0.0 PPM	OK			
86	0.0 PPM	OK			
87	0.0 PPM	OK			
88	0.0 PPM	OK			
89	0.0 PPM	OK			
90	23.0 PPM	OK			
91	47.0 PPM	OK			
92	10.0 PPM	OK			
93	20.0 PPM	OK			
94	9.0 PPM	OK			
95	0.0 PPM	OK			
96	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 2, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
97	6.0 PPM	OK			
98	0.0 PPM	OK			
99	0.0 PPM	OK			
100	0.0 PPM	OK			End Serpentine Route
101	0.0 PPM	OK			EW-75
102	0.0 PPM	OK			EW-74
103	0.0 PPM	OK			EW-33B
104	0.0 PPM	OK			EW-77
105	0.0 PPM	OK			EW-79
106	0.0 PPM	OK			TP-8
107	0.0 PPM	OK			EW-81
108	0.0 PPM	OK			EW-83
109	0.0 PPM	OK			EW-84
110	0.0 PPM	OK			EW-49
111	0.0 PPM	OK			TP-7
112	0.0 PPM	OK			EW-86
113	0.0 PPM	OK			EW-90
114	3.0 PPM	OK			EW-95
115	0.0 PPM	OK			EW-97
116	2.0 PPM	OK			EW-99
117	0.0 PPM	OK			EW-56
118	0.0 PPM	OK			EW-100
119	19.0 PPM	OK			EW-59
120	7.0 PPM	OK			TP-1
121	24.0 PPM	OK			EW-57
122	4430.0 PPM	HIGH_ALRM	36.59831	-82.14716	EW-58
123	0.0 PPM	OK			EW-98
124	0.0 PPM	OK			EW-66
125	0.0 PPM	OK			HC-01
126	215.0 PPM	OK			EW-53
127	0.0 PPM	OK			EW-96
128	15.0 PPM	OK			EW-47
129	378.0 PPM	OK			EW-67
130	28.0 PPM	OK			EW-54
131	1082.0 PPM	HIGH_ALRM	36.59871	-82.14717	EW-55
132	0.0 PPM	OK			EW-94
133	0.0 PPM	OK			EW-93
134	2.0 PPM	OK			EW-92
135	0.0 PPM	OK			EW-91
136	0.0 PPM	OK			EW-51
137	0.0 PPM	OK			TP-5
138	0.0 PPM	OK			EW-68
139	71.0 PPM	OK			EW-52
140	2.0 PPM	OK			TP-4
141	4.0 PPM	OK			HC-02
142	24.0 PPM	OK			EW-89
143	94.0 PPM	OK			EW-60
144	0.0 PPM	OK			EW-87

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 2, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
145	0.0 PPM	OK			EW-38
146	0.0 PPM	OK			EW-48
147	0.0 PPM	OK			EW-88
148	1.0 PPM	OK			EW-85
149	0.0 PPM	OK			EW-61
150	32.0 PPM	OK			TP-6
151	1.0 PPM	OK			EW-50
152	9.0 PPM	OK			EW-36A
153	0.0 PPM	OK			EW-65
154	2.0 PPM	OK			EW-64
155	0.0 PPM	OK			EW-63
156	3.0 PPM	OK			EW-42
157	141.0 PPM	OK			EW-76
158	0.0 PPM	OK			TP-9
159	0.0 PPM	OK			EW-62
160	0.0 PPM	OK			EW-32R
161	0.0 PPM	OK			EW-72
162	0.0 PPM	OK			EW-71
163	0.0 PPM	OK			EW-69
164	0.0 PPM	OK			EW-70
165	0.0 PPM	OK			EW-73
166	11.0 PPM	OK			EW-78
167	0.0 PPM	OK			EW-82

Number of locations sampled:	167
Number of exceedance locations:	2

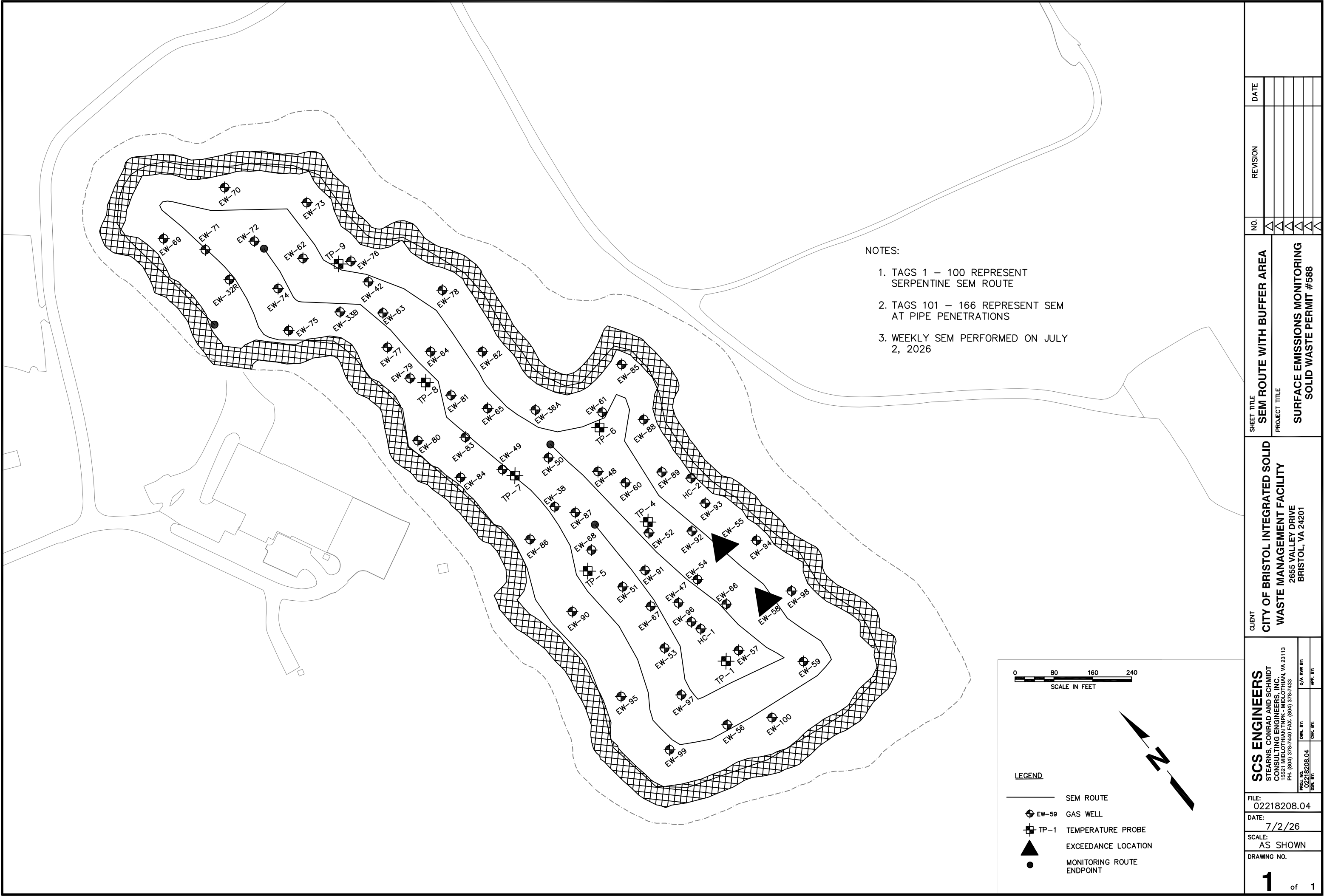
NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 167 represent SEM at Pipe Penetrations
Weather Conditions: Sunny, 75°F Wind: 3 mph E

Sampling Calibration: Methane - 500 ppm, Zero Air - 0.0 ppm

7/2/2026	7:10	ZERO	0.0	PPM
7/2/2026	7:10	SPAN	500.0	PPM

Background Reading:

7/2/2026	7:13	Upwind	0.0	PPM
7/2/2026	7:22	Downwind	3.0	PPM



SHEET TITLE		NO.		REVISION		DATE	
SEM ROUTE WITH BUFFER AREA		1					
PROJECT TITLE		1					
SURFACE EMISSIONS MONITORING		1					
SOLID WASTE PERMIT #588		1					

CLIENT		CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY	
		2655 VALLEY DRIVE BRISTOL, VA 24201	

SCS ENGINEERS		STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.	
		15521 MIDLOTHIAN TRAIL, MIDLOTHIAN, VA 23113	
		PH: (804) 378-7440 FAX: (804) 378-7433	
PROJ. NO.	DRAW. BY:	CHECK BY:	APP. BY:
02218208.04			

FILE:	02218208.04
DATE:	7/2/26
SCALE:	AS SHOWN
DRAWING NO.	1 of 1

July 15, 2026
File No. 02218208.04

Ms. Susan "Tracey" Blalock
Air Compliance Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – July 8, 2026
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Ms. Blalock:

On behalf of the City of Bristol (City), SCS Engineers (SCS) is pleased to submit the results of the Weekly Surface Emissions Monitoring event performed at the Bristol Integrated Solid Waste Management Facility located in Bristol, Virginia on July 8, 2026. This Weekly Surface Emissions Monitoring (SEM) Event was performed in accordance with Appendix A.1.i of the Consent Decree between the Commonwealth of Virginia and the City of Bristol.

The monitoring generally conforms to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The monitoring route includes the entire waste footprint of Permit No. 588 Landfill. Sampling was conducted with an Inficon IRwin infrared (IR) Methane Leak Detector at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint, including at the temperature probes and horizontal collectors. The approximate monitoring route and sampling locations are presented in the attached Drawing.

At the time of monitoring, all areas of the Permit No. 588 Landfill footprint are subject to regulatory monitoring based on the regulatory schedule stipulated in 40 CFR 63.1960(b) and 40 CFR 60.36f(b). Permit No. 588 Landfill has a surface area of approximately 17.3 acres. Therefore, the minimum number of sampling points to cover the appropriate portion of the landfill footprint, utilizing a 30-meter grid interval, is approximately 82 (4.75 points per acre). A summary of the results of the surface emissions monitoring is provided in Table 1.



Table 1. Summary of Surface Emissions Monitoring

Description	Quantity
Number of Points Sampled	168
Number of Points in Serpentine Route	100
Number of Points at Surface Cover Penetrations	68
Number of Exceedances	2
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	2

REMONITORING OF ONGOING EXCEEDANCES

In accordance with 40 CFR 63.1960(c)(4)(ii) and 40 CFR 60.36f(c)(4)(ii), corrective actions and a remonitoring event are to be performed within 10 days of the initial exceedance. In accordance with 40 CFR 63.1960(c)(4)(iii) and 40 CFR 60.36f(c)(4)(iii) additional corrective actions and a second 10-day retest are to be performed if the initial 10-day retest indicates methane values greater than the regulatory threshold. The Facility performs corrective actions, as necessary, including wellhead vacuum adjustments, the installation of well-bore seals, and addition of soil cover prior to weekly monitoring events at locations that previously exhibited elevated methane concentrations.

In accordance with 40 CFR 63.1960(c)(4)(v) and 40 CFR 60.36f(c)(4)(v) a new well or collection device must be installed or an alternate remedy must be submitted within 120 days at locations that continue to exhibit methane concentrations above the regulatory threshold for two consecutive re-tests.

A summary of ongoing exceedance points is provided in Table 2.

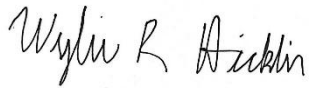
Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	7/8/26 Event	7/8/26 Event Result	Comments
EW-55	6/25/26	2 nd 10-Day Retest	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-58	7/2/2026	10-Day Retest	Passed	Requires 1-Month Retest

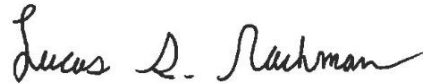
Ms. Susan "Tracey" Blalock
July 15, 2026
Page 3

If you have questions or require additional information, please contact either of the undersigned.

Sincerely,



Wylie R Hicklin
Staff Professional
SCS Engineers



Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: Jonathan Hayes, City of Bristol
Laura Helander, City of Bristol

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 8, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
1	0.0 PPM	OK			Start Serpentine Route
2	0.0 PPM	OK			
3	0.0 PPM	OK			
4	0.0 PPM	OK			
5	0.0 PPM	OK			
6	0.0 PPM	OK			
7	0.0 PPM	OK			
8	3.0 PPM	OK			
9	0.0 PPM	OK			
10	0.0 PPM	OK			
11	0.0 PPM	OK			
12	0.0 PPM	OK			
13	0.0 PPM	OK			
14	0.0 PPM	OK			
15	0.0 PPM	OK			
16	0.0 PPM	OK			
17	0.0 PPM	OK			
18	0.0 PPM	OK			
19	0.0 PPM	OK			
20	0.0 PPM	OK			
21	0.0 PPM	OK			
22	0.0 PPM	OK			
23	0.0 PPM	OK			
24	2.0 PPM	OK			
25	3.0 PPM	OK			
26	0.0 PPM	OK			
27	0.0 PPM	OK			
28	3.0 PPM	OK			
29	0.0 PPM	OK			
30	2.0 PPM	OK			
31	32.0 PPM	OK			
32	2.0 PPM	OK			
33	10.0 PPM	OK			
34	1.0 PPM	OK			
35	0.0 PPM	OK			
36	0.0 PPM	OK			
37	0.0 PPM	OK			
38	0.0 PPM	OK			
39	0.0 PPM	OK			
40	0.0 PPM	OK			
41	0.0 PPM	OK			
42	0.0 PPM	OK			
43	0.0 PPM	OK			
44	0.0 PPM	OK			
45	0.0 PPM	OK			
46	0.0 PPM	OK			
47	0.0 PPM	OK			
48	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 8, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
49	0.0 PPM	OK			
50	0.0 PPM	OK			
51	0.0 PPM	OK			
52	0.0 PPM	OK			
53	0.0 PPM	OK			
54	0.0 PPM	OK			
55	3.0 PPM	OK			
56	0.0 PPM	OK			
57	0.0 PPM	OK			
58	0.0 PPM	OK			
59	0.0 PPM	OK			
60	0.0 PPM	OK			
61	0.0 PPM	OK			
62	2.0 PPM	OK			
63	28.0 PPM	OK			
64	10.0 PPM	OK			
65	0.0 PPM	OK			
66	0.0 PPM	OK			
67	8.0 PPM	OK			
68	4.0 PPM	OK			
69	0.0 PPM	OK			
70	0.0 PPM	OK			
71	2.0 PPM	OK			
72	0.0 PPM	OK			
73	1.0 PPM	OK			
74	0.0 PPM	OK			
75	2.0 PPM	OK			
76	0.0 PPM	OK			
77	0.0 PPM	OK			
78	0.0 PPM	OK			
79	0.0 PPM	OK			
80	0.0 PPM	OK			
81	1.0 PPM	OK			
82	0.0 PPM	OK			
83	0.0 PPM	OK			
84	0.0 PPM	OK			
85	0.0 PPM	OK			
86	0.0 PPM	OK			
87	0.0 PPM	OK			
88	0.0 PPM	OK			
89	0.0 PPM	OK			
90	9.0 PPM	OK			
91	2.0 PPM	OK			
92	0.0 PPM	OK			
93	6.0 PPM	OK			
94	0.0 PPM	OK			
95	0.0 PPM	OK			
96	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 8, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
97	0.0 PPM	OK			
98	0.0 PPM	OK			
99	0.0 PPM	OK			
100	0.0 PPM	OK			End Serpentine Route
101	0.0 PPM	OK			EW-75
102	0.0 PPM	OK			EW-74
103	0.0 PPM	OK			EW-33B
104	0.0 PPM	OK			EW-77
105	0.0 PPM	OK			EW-79
106	0.0 PPM	OK			EW-81
107	0.0 PPM	OK			EW-80
108	0.0 PPM	OK			EW-83
109	0.0 PPM	OK			EW-84
110	0.0 PPM	OK			EW-49
111	0.0 PPM	OK			TP-7
112	14.0 PPM	OK			EW-86
113	0.0 PPM	OK			EW-90
114	0.0 PPM	OK			EW-95
115	5.0 PPM	OK			EW-97
116	22.0 PPM	OK			EW-99
117	0.0 PPM	OK			EW-56
118	2.0 PPM	OK			EW-100
119	0.0 PPM	OK			EW-59
120	0.0 PPM	OK			EW-57
121	0.0 PPM	OK			TP-1
122	120.0 PPM	OK			EW-58
123	4.0 PPM	OK			EW-98
124	6.0 PPM	OK			EW-66
125	0.0 PPM	OK			HC-01
126	602.0 PPM	HIGH_ALRM	36.59843	-82.14786	EW-53
127	0.0 PPM	OK			EW-96
128	6.0 PPM	OK			EW-67
129	24.0 PPM	OK			EW-47
130	9.0 PPM	OK			EW-54
131	3344.0 PPM	HIGH_ALRM	36.59871	-82.14716	EW-55
132	0.0 PPM	OK			EW-94
133	0.0 PPM	OK			EW-93
134	10.0 PPM	OK			EW-92
135	0.0 PPM	OK			EW-91
136	0.0 PPM	OK			EW-51
137	0.0 PPM	OK			TP-5
138	0.0 PPM	OK			EW-68
139	138.0 PPM	OK			EW-52
140	0.0 PPM	OK			TP-4
141	0.0 PPM	OK			HC-02
142	6.0 PPM	OK			EW-89
143	0.0 PPM	OK			EW-60
144	0.0 PPM	OK			EW-87

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 8, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
145	0.0 PPM	OK			EW-38
146	0.0 PPM	OK			EW-48
147	0.0 PPM	OK			EW-88
148	0.0 PPM	OK			EW-85
149	0.0 PPM	OK			EW-61
150	2.0 PPM	OK			TP-6
151	0.0 PPM	OK			EW-50
152	0.0 PPM	OK			EW-36A
153	0.0 PPM	OK			EW-65
154	0.0 PPM	OK			EW-64
155	0.0 PPM	OK			EW-63
156	0.0 PPM	OK			EW-42
157	128.0 PPM	OK			EW-76
158	0.0 PPM	OK			TP-9
159	0.0 PPM	OK			EW-62
160	0.0 PPM	OK			EW-32R
161	0.0 PPM	OK			EW-72
162	0.0 PPM	OK			EW-71
163	0.0 PPM	OK			EW-69
164	0.0 PPM	OK			EW-70
165	0.0 PPM	OK			EW-73
166	0.0 PPM	OK			EW-78
167	0.0 PPM	OK			EW-82
168	0.0 PPM	OK			TP-8

Number of locations sampled: 168

Number of exceedance locations: 2

NOTES:

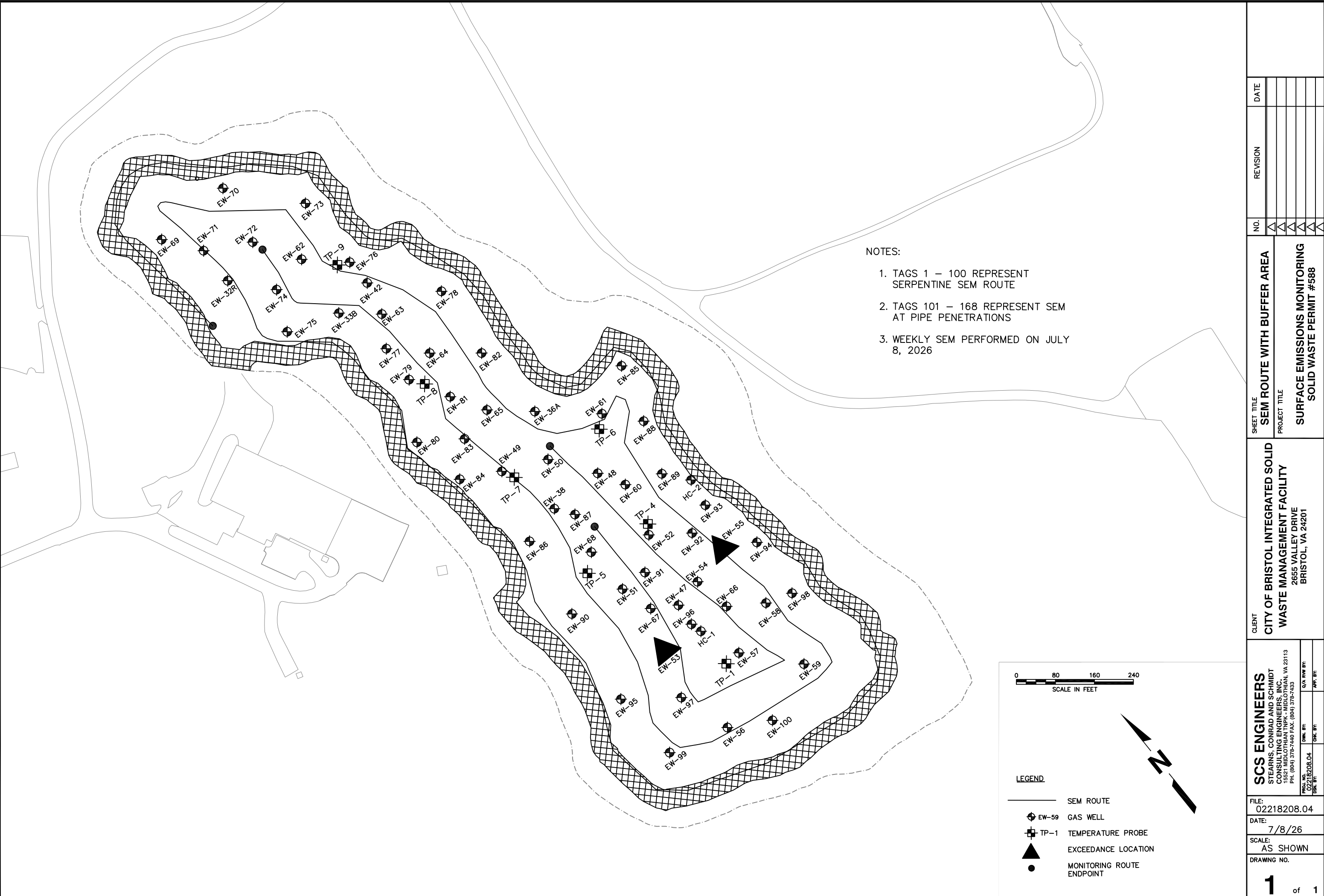
Points 1 through 100 represent serpentine SEM route.
Points 101 through 168 represent SEM at Pipe Penetrations
Weather Conditions: Cloudy, 73°F Wind: 5 mph W

Sampling Calibration: Methane - 500 ppm, Zero Air - 0.0 ppm

7/8/2026	7:25	ZERO	0.0	PPM
7/8/2026	7:25	SPAN	494.7	PPM

Background Reading:

7/8/2026	7:31	Upwind	0.0	PPM
7/8/2026	7:46	Downwind	0.0	PPM



- NOTES:
- 1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
 - 2. TAGS 101 – 168 REPRESENT SEM AT PIPE PENETRATIONS
 - 3. WEEKLY SEM PERFORMED ON JULY 8, 2026

SHEET TITLE		NO.		REVISION		DATE	
SEM ROUTE WITH BUFFER AREA		1					
PROJECT TITLE		1					
SURFACE EMISSIONS MONITORING		1					
SOLID WASTE PERMIT #588		1					

CLIENT		CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY	
		2655 VALLEY DRIVE BRISTOL, VA 24201	

SCS ENGINEERS		STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.	
		15521 MIDLOTHIAN TRAIL, MIDLOTHIAN, VA 23113	
		PH. (804) 378-7440 FAX. (804) 378-7433	
PROJ. NO.	02218208.04	DRAWN BY:	C/A R/W BY:
DATE:	7/8/26	CHECK BY:	APP. BY:

FILE:	02218208.04
DATE:	7/8/26
SCALE:	AS SHOWN
DRAWING NO.	1 of 1

July 22, 2026
File No. 02218208.04

Ms. Susan "Tracey" Blalock
Air Compliance Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – July 16, 2026
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Ms. Blalock:

On behalf of the City of Bristol (City), SCS Engineers (SCS) is pleased to submit the results of the Weekly Surface Emissions Monitoring event performed at the Bristol Integrated Solid Waste Management Facility located in Bristol, Virginia on July 16, 2026. This Weekly Surface Emissions Monitoring (SEM) Event was performed in accordance with Appendix A.1.i of the Consent Decree between the Commonwealth of Virginia and the City of Bristol.

The monitoring generally conforms to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The monitoring route includes the entire waste footprint of Permit No. 588 Landfill. Sampling was conducted with an Inficon IRwin infrared (IR) Methane Leak Detector at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint, including at the temperature probes and horizontal collectors. The approximate monitoring route and sampling locations are presented in the attached Drawing.

At the time of monitoring, all areas of the Permit No. 588 Landfill footprint are subject to regulatory monitoring based on the regulatory schedule stipulated in 40 CFR 63.1960(b) and 40 CFR 60.36f(b). Permit No. 588 Landfill has a surface area of approximately 17.3 acres. Therefore, the minimum number of sampling points to cover the appropriate portion of the landfill footprint, utilizing a 30-meter grid interval, is approximately 82 (4.75 points per acre). A summary of the results of the surface emissions monitoring is provided in Table 1.



Table 1. Summary of Surface Emissions Monitoring

Description	Quantity
Number of Points Sampled	168
Number of Points in Serpentine Route	100
Number of Points at Surface Cover Penetrations	68
Number of Exceedances	4
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	4

REMONITORING OF ONGOING EXCEEDANCES

In accordance with 40 CFR 63.1960(c)(4)(ii) and 40 CFR 60.36f(c)(4)(ii), corrective actions and a remonitoring event are to be performed within 10 days of the initial exceedance. In accordance with 40 CFR 63.1960(c)(4)(iii) and 40 CFR 60.36f(c)(4)(iii) additional corrective actions and a second 10-day retest are to be performed if the initial 10-day retest indicates methane values greater than the regulatory threshold. The Facility performs corrective actions, as necessary, including wellhead vacuum adjustments, the installation of well-bore seals, and addition of soil cover prior to weekly monitoring events at locations that previously exhibited elevated methane concentrations.

In accordance with 40 CFR 63.1960(c)(4)(v) and 40 CFR 60.36f(c)(4)(v) a new well or collection device must be installed or an alternate remedy must be submitted within 120 days at locations that continue to exhibit methane concentrations above the regulatory threshold for two consecutive re-tests.

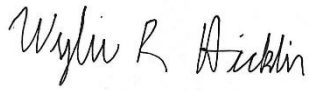
A summary of ongoing exceedance points is provided in Table 2.

Table 2. Ongoing Weekly SEM Exceedances

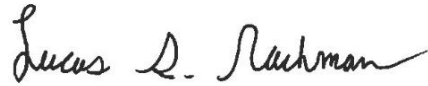
Point ID	Initial Exceedance Date	7/16/26 Event	7/16/26 Event Result	Comments
EW-55	6/25/26	N/A	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-58	7/2/26	N/A	Failed	Requires 1-Month Retest
EW-53	7/8/26	10-Day Retest	Failed	Requires 2 nd 10-Day Retest

If you have questions or require additional information, please contact either of the undersigned.

Sincerely,



Wylie R Hicklin
Staff Professional
SCS Engineers



Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: Jonathan Hayes, City of Bristol
Laura Helander, City of Bristol

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 16, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
1	0.0 PPM	OK			Start Serpentine Route
2	0.0 PPM	OK			
3	0.0 PPM	OK			
4	0.0 PPM	OK			
5	0.0 PPM	OK			
6	0.0 PPM	OK			
7	0.0 PPM	OK			
8	0.0 PPM	OK			
9	0.0 PPM	OK			
10	0.0 PPM	OK			
11	0.0 PPM	OK			
12	0.0 PPM	OK			
13	0.0 PPM	OK			
14	0.0 PPM	OK			
15	0.0 PPM	OK			
16	0.0 PPM	OK			
17	3.0 PPM	OK			
18	2.0 PPM	OK			
19	0.0 PPM	OK			
20	5.0 PPM	OK			
21	0.0 PPM	OK			
22	1.0 PPM	OK			
23	2.0 PPM	OK			
24	0.0 PPM	OK			
25	0.0 PPM	OK			
26	0.0 PPM	OK			
27	28.0 PPM	OK			
28	0.0 PPM	OK			
29	0.0 PPM	OK			
30	9.0 PPM	OK			
31	45.0 PPM	OK			
32	83.0 PPM	OK			
33	0.0 PPM	OK			
34	0.0 PPM	OK			
35	0.0 PPM	OK			
36	0.0 PPM	OK			
37	0.0 PPM	OK			
38	0.0 PPM	OK			
39	1.0 PPM	OK			
40	1.0 PPM	OK			
41	0.0 PPM	OK			
42	0.0 PPM	OK			
43	0.0 PPM	OK			
44	0.0 PPM	OK			
45	0.0 PPM	OK			
46	0.0 PPM	OK			
47	0.0 PPM	OK			
48	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 16, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
49	0.0 PPM	OK			
50	0.0 PPM	OK			
51	0.0 PPM	OK			
52	0.0 PPM	OK			
53	0.0 PPM	OK			
54	0.0 PPM	OK			
55	11.0 PPM	OK			
56	0.0 PPM	OK			
57	0.0 PPM	OK			
58	2.0 PPM	OK			
59	0.0 PPM	OK			
60	2.0 PPM	OK			
61	19.0 PPM	OK			
62	0.0 PPM	OK			
63	15.0 PPM	OK			
64	92.0 PPM	OK			
65	1.0 PPM	OK			
66	0.0 PPM	OK			
67	21.0 PPM	OK			
68	11.0 PPM	OK			
69	0.0 PPM	OK			
70	0.0 PPM	OK			
71	0.0 PPM	OK			
72	0.0 PPM	OK			
73	0.0 PPM	OK			
74	0.0 PPM	OK			
75	6.0 PPM	OK			
76	7.0 PPM	OK			
77	0.0 PPM	OK			
78	0.0 PPM	OK			
79	0.0 PPM	OK			
80	0.0 PPM	OK			
81	3.0 PPM	OK			
82	0.0 PPM	OK			
83	0.0 PPM	OK			
84	0.0 PPM	OK			
85	0.0 PPM	OK			
86	6.0 PPM	OK			
87	0.0 PPM	OK			
88	0.0 PPM	OK			
89	0.0 PPM	OK			
90	13.0 PPM	OK			
91	25.0 PPM	OK			
92	46.0 PPM	OK			
93	5.0 PPM	OK			
94	0.0 PPM	OK			
95	0.0 PPM	OK			
96	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 16, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
97	0.0 PPM	OK			
98	0.0 PPM	OK			
99	0.0 PPM	OK			
100	0.0 PPM	OK			End Serpentine Route
101	0.0 PPM	OK			EW-75
102	0.0 PPM	OK			EW-74
103	0.0 PPM	OK			EW-62
104	0.0 PPM	OK			EW-33B
105	0.0 PPM	OK			EW-77
106	105.0 PPM	OK			EW-79
107	0.0 PPM	OK			TP-8
108	174.0 PPM	OK			EW-81
109	0.0 PPM	OK			EW-80
110	0.0 PPM	OK			EW-83
111	134.0 PPM	OK			EW-84
112	2.0 PPM	OK			EW-49
113	119.0 PPM	OK			TP-7
114	11.0 PPM	OK			EW-86
115	0.0 PPM	OK			EW-90
116	365.0 PPM	OK			EW-95
117	0.0 PPM	OK			EW-97
118	340.0 PPM	OK			EW-99
119	0.0 PPM	OK			EW-56
120	9.0 PPM	OK			EW-100
121	56.0 PPM	OK			EW-59
122	0.0 PPM	OK			TP-1
123	0.0 PPM	OK			EW-57
124	1637.0 PPM	HIGH_ALRM	36.59832	-82.14716	EW-58
125	0.0 PPM	OK			EW-98
126	137.0 PPM	OK			EW-66
127	0.0 PPM	OK			HC-01
128	744.0 PPM	HIGH_ALRM	36.59845	-82.14785	EW-53
129	16.0 PPM	OK			EW-96
130	4969.0 PPM	HIGH_ALRM	36.59865	-82.14771	EW-67
131	63.0 PPM	OK			EW-47
132	54.0 PPM	OK			EW-54
133	987.0 PPM	HIGH_ALRM	36.59872	-82.14717	EW-55
134	2.0 PPM	OK			EW-94
135	1.0 PPM	OK			EW-93
136	22.0 PPM	OK			EW-92
137	6.0 PPM	OK			EW-91
138	0.0 PPM	OK			EW-51
139	0.0 PPM	OK			TP-3
140	0.0 PPM	OK			EW-68
141	13.0 PPM	OK			EW-52
142	0.0 PPM	OK			TP-4
143	487.0 PPM	OK			HC-02
144	25.0 PPM	OK			EW-89

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 16, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
145	16.0 PPM	OK			EW-60
146	0.0 PPM	OK			EW-87
147	464.0 PPM	OK			EW-38
148	3.0 PPM	OK			EW-48
149	3.0 PPM	OK			EW-88
150	0.0 PPM	OK			EW-61
151	36.0 PPM	OK			TP-6
152	0.0 PPM	OK			EW-50
153	0.0 PPM	OK			EW-36A
154	0.0 PPM	OK			EW-65
155	0.0 PPM	OK			EW-82
156	0.0 PPM	OK			EW-78
157	0.0 PPM	OK			EW-73
158	0.0 PPM	OK			EW-70
159	0.0 PPM	OK			EW-69
160	0.0 PPM	OK			EW-71
161	0.0 PPM	OK			EW-72
162	0.0 PPM	OK			EW-32R
163	0.0 PPM	OK			EW-85
164	62.0 PPM	OK			EW-64
165	0.0 PPM	OK			EW-63
166	1.0 PPM	OK			EW-42
167	0.0 PPM	OK			EW-76
168	0.0 PPM	OK			TP-9

Number of locations sampled: 168

Number of exceedance locations: 4

NOTES:

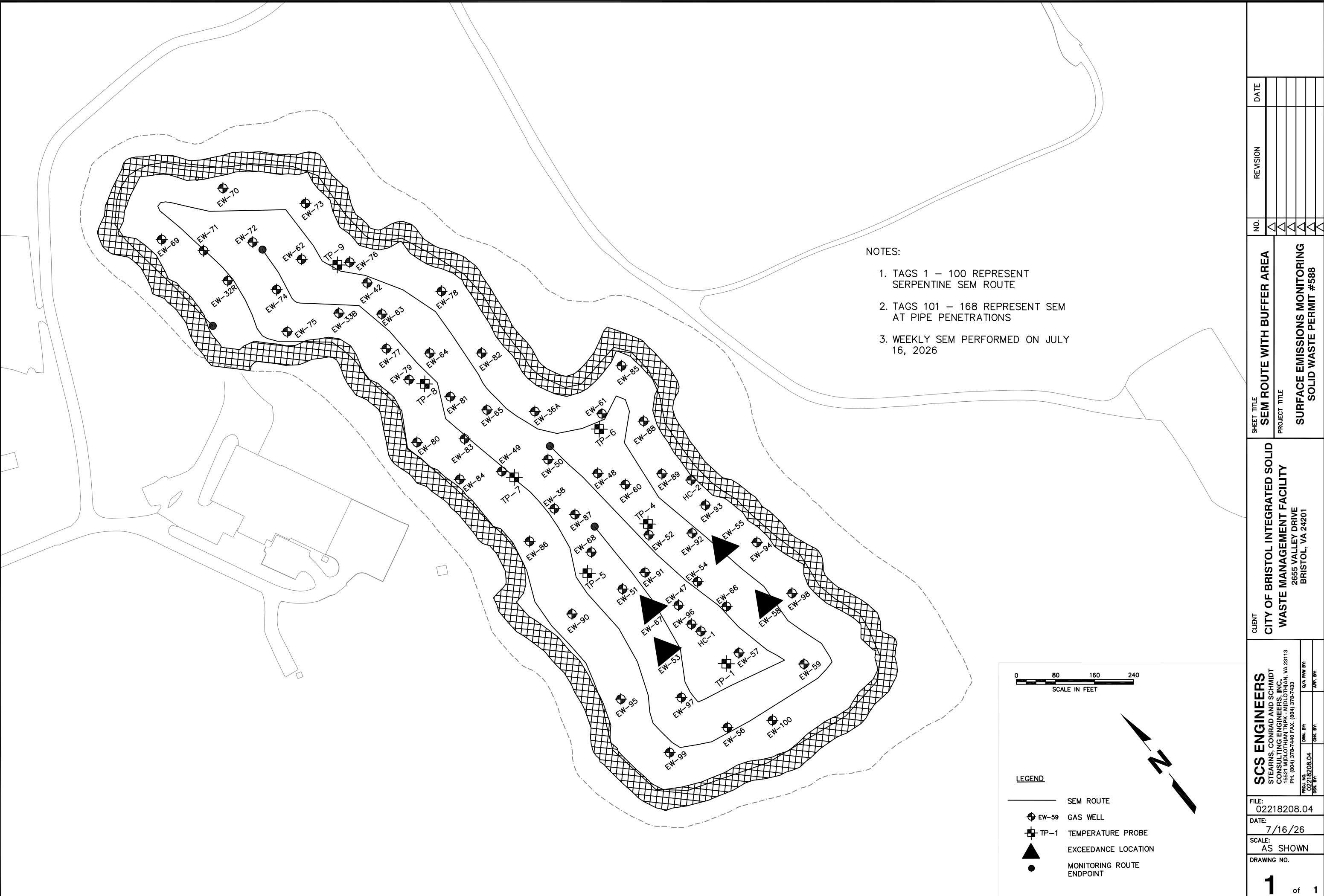
Points 1 through 100 represent serpentine SEM route.
Points 101 through 168 represent SEM at Pipe Penetrations
Weather Conditions: Sunny, 77°F Wind: 2 mph N

Sampling Calibration: Methane - 500 ppm, Zero Air - 0.0 ppm

7/16/2026	6:13	ZERO	0.0	PPM
7/16/2026	6:13	SPAN	497.0	PPM

Background Reading:

7/16/2026	6:15	Upwind	0.0	PPM
7/16/2026	6:29	Downwind	2.0	PPM



SHEET TITLE		NO.		REVISION		DATE	
SEM ROUTE WITH BUFFER AREA		1					
PROJECT TITLE		1					
SURFACE EMISSIONS MONITORING		1					
SOLID WASTE PERMIT #588		1					

CLIENT		CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY	
		2655 VALLEY DRIVE BRISTOL, VA 24201	

SCS ENGINEERS		STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.	
		15521 MIDLOTHIAN TRAIL, MIDLOTHIAN, VA 23113	
		PH. (804) 378-7440 FAX. (804) 378-7433	
PROJ. NO.	02218208.04	DRAWN BY:	C/A R/W BY:
DATE:	7/16/26	CHECK BY:	APP. BY:

FILE:	02218208.04
DATE:	7/16/26
SCALE:	AS SHOWN
DRAWING NO.	1 of 1

July 29, 2026
File No. 02218208.04

Ms. Susan "Tracey" Blalock
Air Compliance Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – July 21, 2026
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Ms. Blalock:

On behalf of the City of Bristol (City), SCS Engineers (SCS) is pleased to submit the results of the Weekly Surface Emissions Monitoring event performed at the Bristol Integrated Solid Waste Management Facility located in Bristol, Virginia on July 21, 2026. This Weekly Surface Emissions Monitoring (SEM) Event was performed in accordance with Appendix A.1.i of the Consent Decree between the Commonwealth of Virginia and the City of Bristol.

The monitoring generally conforms to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The monitoring route includes the entire waste footprint of Permit No. 588 Landfill. Sampling was conducted with an Inficon IRwin infrared (IR) Methane Leak Detector at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint, including at the temperature probes and horizontal collectors. The approximate monitoring route and sampling locations are presented in the attached Drawing.

At the time of monitoring, all areas of the Permit No. 588 Landfill footprint are subject to regulatory monitoring based on the regulatory schedule stipulated in 40 CFR 63.1960(b) and 40 CFR 60.36f(b). Permit No. 588 Landfill has a surface area of approximately 17.3 acres. Therefore, the minimum number of sampling points to cover the appropriate portion of the landfill footprint, utilizing a 30-meter grid interval, is approximately 82 (4.75 points per acre). A summary of the results of the surface emissions monitoring is provided in Table 1.



Table 1. Summary of Surface Emissions Monitoring

Description	Quantity
Number of Points Sampled	168
Number of Points in Serpentine Route	100
Number of Points at Surface Cover Penetrations	68
Number of Exceedances	4
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	4

REMONITORING OF ONGOING EXCEEDANCES

In accordance with 40 CFR 63.1960(c)(4)(ii) and 40 CFR 60.36f(c)(4)(ii), corrective actions and a remonitoring event are to be performed within 10 days of the initial exceedance. In accordance with 40 CFR 63.1960(c)(4)(iii) and 40 CFR 60.36f(c)(4)(iii) additional corrective actions and a second 10-day retest are to be performed if the initial 10-day retest indicates methane values greater than the regulatory threshold. The Facility performs corrective actions, as necessary, including wellhead vacuum adjustments, the installation of well-bore seals, and addition of soil cover prior to weekly monitoring events at locations that previously exhibited elevated methane concentrations.

In accordance with 40 CFR 63.1960(c)(4)(v) and 40 CFR 60.36f(c)(4)(v) a new well or collection device must be installed or an alternate remedy must be submitted within 120 days at locations that continue to exhibit methane concentrations above the regulatory threshold for two consecutive re-tests.

A summary of ongoing exceedance points is provided in Table 2.

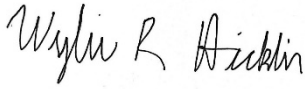
Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	7/21/26 Event	7/21/26 Event Result	Comments
EW-55	6/25/26	N/A	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-58	7/2/26	N/A	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-53	7/8/26	2 nd 10-Day Retest	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-67	7/16/26	10-Day Retest	Failed	Requires 2 nd 10-day Retest

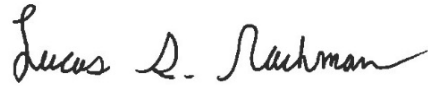
Ms. Susan "Tracey" Blalock
July 29, 2026
Page 3

If you have questions or require additional information, please contact either of the undersigned.

Sincerely,



Wylie R Hicklin
Staff Professional
SCS Engineers



Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: Jonathan Hayes, City of Bristol
Laura Helander, City of Bristol

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 21, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
1	0.0 PPM	OK			Start Serpentine Route
2	0.0 PPM	OK			
3	0.0 PPM	OK			
4	1.0 PPM	OK			
5	0.0 PPM	OK			
6	0.0 PPM	OK			
7	0.0 PPM	OK			
8	0.0 PPM	OK			
9	0.0 PPM	OK			
10	0.0 PPM	OK			
11	0.0 PPM	OK			
12	1.0 PPM	OK			
13	0.0 PPM	OK			
14	0.0 PPM	OK			
15	0.0 PPM	OK			
16	0.0 PPM	OK			
17	0.0 PPM	OK			
18	0.0 PPM	OK			
19	2.0 PPM	OK			
20	0.0 PPM	OK			
21	0.0 PPM	OK			
22	0.0 PPM	OK			
23	0.0 PPM	OK			
24	0.0 PPM	OK			
25	0.0 PPM	OK			
26	0.0 PPM	OK			
27	0.0 PPM	OK			
28	0.0 PPM	OK			
29	51.0 PPM	OK			
30	15.0 PPM	OK			
31	10.0 PPM	OK			
32	0.0 PPM	OK			
33	33.0 PPM	OK			
34	0.0 PPM	OK			
35	0.0 PPM	OK			
36	4.0 PPM	OK			
37	0.0 PPM	OK			
38	0.0 PPM	OK			
39	0.0 PPM	OK			
40	0.0 PPM	OK			
41	0.0 PPM	OK			
42	0.0 PPM	OK			
43	1.0 PPM	OK			
44	0.0 PPM	OK			
45	1.0 PPM	OK			
46	0.0 PPM	OK			
47	0.0 PPM	OK			
48	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 21, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
49	0.0 PPM	OK			
50	0.0 PPM	OK			
51	0.0 PPM	OK			
52	0.0 PPM	OK			
53	0.0 PPM	OK			
54	0.0 PPM	OK			
55	0.0 PPM	OK			
56	70.0 PPM	OK			
57	0.0 PPM	OK			
58	0.0 PPM	OK			
59	0.0 PPM	OK			
60	0.0 PPM	OK			
61	0.0 PPM	OK			
62	0.0 PPM	OK			
63	4.0 PPM	OK			
64	0.0 PPM	OK			
65	18.0 PPM	OK			
66	26.0 PPM	OK			
67	0.0 PPM	OK			
68	10.0 PPM	OK			
69	0.0 PPM	OK			
70	7.0 PPM	OK			
71	0.0 PPM	OK			
72	1.0 PPM	OK			
73	0.0 PPM	OK			
74	0.0 PPM	OK			
75	0.0 PPM	OK			
76	0.0 PPM	OK			
77	0.0 PPM	OK			
78	0.0 PPM	OK			
79	0.0 PPM	OK			
80	4.0 PPM	OK			
81	0.0 PPM	OK			
82	0.0 PPM	OK			
83	0.0 PPM	OK			
84	0.0 PPM	OK			
85	0.0 PPM	OK			
86	0.0 PPM	OK			
87	0.0 PPM	OK			
88	0.0 PPM	OK			
89	0.0 PPM	OK			
90	0.0 PPM	OK			
91	0.0 PPM	OK			
92	0.0 PPM	OK			
93	164.0 PPM	OK			
94	0.0 PPM	OK			
95	2.0 PPM	OK			
96	2.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 21, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
97	0.0 PPM	OK			
98	0.0 PPM	OK			
99	0.0 PPM	OK			
100	3.0 PPM	OK			End Serpentine Route
101	0.0 PPM	OK			EW-75
102	0.0 PPM	OK			EW-74
103	0.0 PPM	OK			EW-33B
104	0.0 PPM	OK			EW-77
105	0.0 PPM	OK			EW-79
106	0.0 PPM	OK			TP-8
107	0.0 PPM	OK			EW-81
108	0.0 PPM	OK			EW-80
109	0.0 PPM	OK			EW-83
110	0.0 PPM	OK			EW-84
111	0.0 PPM	OK			EW-49
112	0.0 PPM	OK			TP-7
113	1.0 PPM	OK			EW-86
114	0.0 PPM	OK			EW-90
115	21.0 PPM	OK			EW-95
116	75.0 PPM	OK			EW-97
117	21.0 PPM	OK			EW-99
118	0.0 PPM	OK			EW-56
119	0.0 PPM	OK			EW-100
120	0.0 PPM	OK			EW-59
121	0.0 PPM	OK			TP-1
122	0.0 PPM	OK			EW-57
123	1696.0 PPM	HIGH_ALRM	36.59831	-82.14718	EW-58
124	29.0 PPM	OK			EW-98
125	290.0 PPM	OK			EW-66
126	7.0 PPM	OK			HC-01
127	505.0 PPM	HIGH_ALRM	36.59842	-82.14787	EW-53
128	4.0 PPM	OK			EW-96
129	1415.0 PPM	HIGH_ALRM	36.59863	-82.14772	EW-67
130	32.0 PPM	OK			EW-47
131	78.0 PPM	OK			EW-54
132	557.0 PPM	HIGH_ALRM	36.59871	-82.14717	EW-55
133	0.0 PPM	OK			EW-94
134	3.0 PPM	OK			EW-93
135	0.0 PPM	OK			EW-92
136	0.0 PPM	OK			EW-91
137	0.0 PPM	OK			EW-51
138	0.0 PPM	OK			TP-5
139	0.0 PPM	OK			EW-68
140	109.0 PPM	OK			EW-52
141	14.0 PPM	OK			TP-4
142	7.0 PPM	OK			HC-02
143	6.0 PPM	OK			EW-89
144	61.0 PPM	OK			EW-60

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 21, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
145	1.0 PPM	OK			EW-87
146	0.0 PPM	OK			EW-38
147	0.0 PPM	OK			EW-48
148	2.0 PPM	OK			EW-88
149	0.0 PPM	OK			EW-85
150	0.0 PPM	OK			EW-61
151	0.0 PPM	OK			TP-6
152	0.0 PPM	OK			EW-50
153	0.0 PPM	OK			EW-36A
154	0.0 PPM	OK			EW-65
155	0.0 PPM	OK			EW-64
156	0.0 PPM	OK			EW-63
157	0.0 PPM	OK			EW-42
158	13.0 PPM	OK			EW-76
159	1.0 PPM	OK			TP-9
160	1.0 PPM	OK			EW-62
161	0.0 PPM	OK			EW-32R
162	0.0 PPM	OK			EW-72
163	0.0 PPM	OK			EW-71
164	0.0 PPM	OK			EW-69
165	0.0 PPM	OK			EW-70
166	0.0 PPM	OK			EW-73
167	0.0 PPM	OK			EW-78
168	0.0 PPM	OK			EW-82

Number of locations sampled: 168

Number of exceedance locations: 4

NOTES:

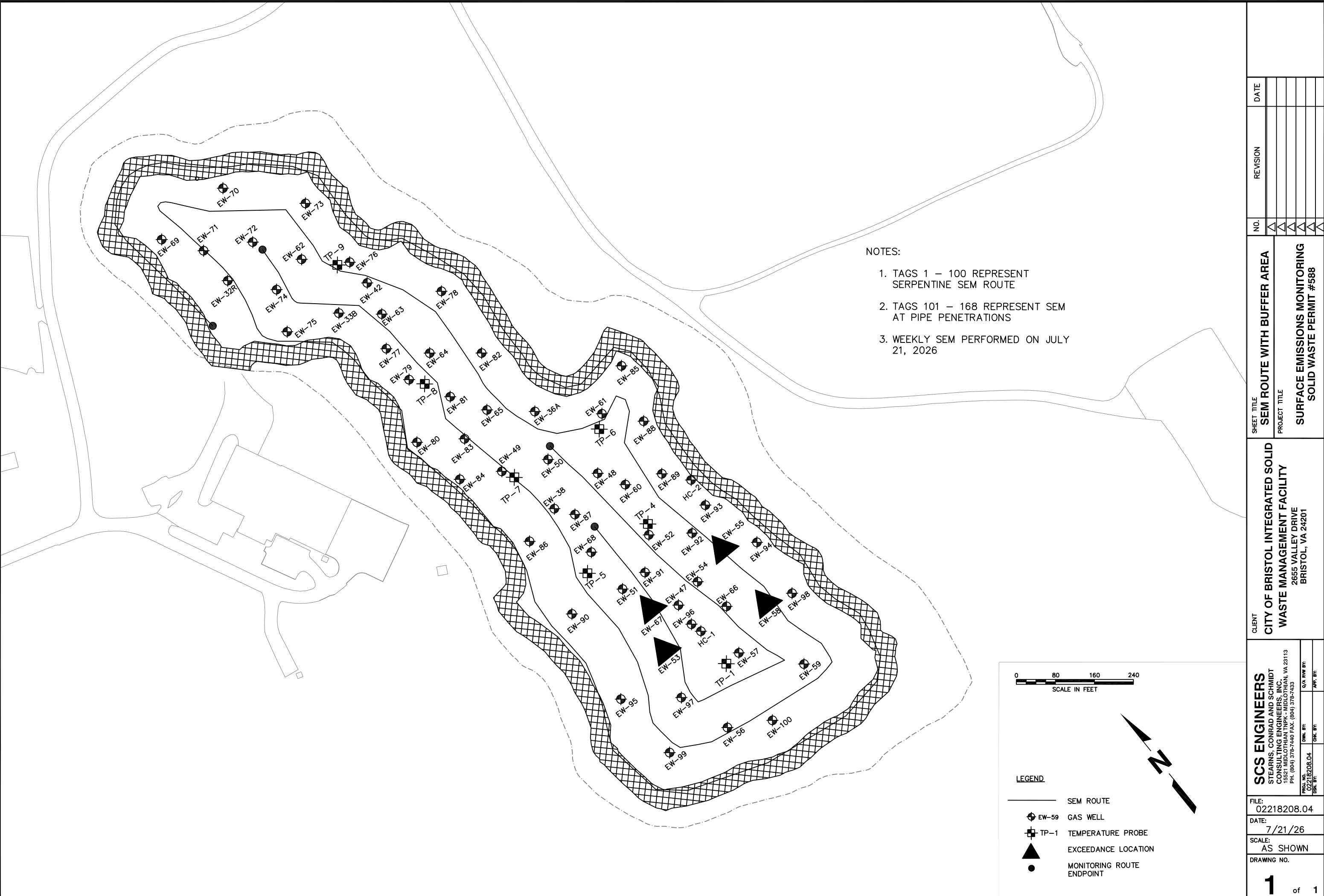
Points 1 through 100 represent serpentine SEM route.
Points 101 through 168 represent SEM at Pipe Penetrations
Weather Conditions: Mostly Cloudy, 73°F Wind: 6 mph W

Sampling Calibration: Methane - 500 ppm, Zero Air - 0.0 ppm

7/21/2026	6:49	ZERO	0.0	PPM
7/21/2026	6:49	SPAN	500.7	PPM

Background Reading:

7/21/2026	7:00	Upwind	0.0	PPM
7/21/2026	6:53	Downwind	0.0	PPM



August 5, 2026
File No. 02218208.04

Ms. Susan "Tracey" Blalock
Air Compliance Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – July 30, 2026
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Ms. Blalock:

On behalf of the City of Bristol (City), SCS Engineers (SCS) is pleased to submit the results of the Weekly Surface Emissions Monitoring event performed at the Bristol Integrated Solid Waste Management Facility located in Bristol, Virginia on July 30, 2026. This Weekly Surface Emissions Monitoring (SEM) Event was performed in accordance with Appendix A.1.i of the Consent Decree between the Commonwealth of Virginia and the City of Bristol.

The monitoring generally conforms to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The monitoring route includes the entire waste footprint of Permit No. 588 Landfill. Sampling was conducted with an Inficon IRwin infrared (IR) Methane Leak Detector at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint, including at the temperature probes and horizontal collectors. The approximate monitoring route and sampling locations are presented in the attached Drawing.

At the time of monitoring, all areas of the Permit No. 588 Landfill footprint are subject to regulatory monitoring based on the regulatory schedule stipulated in 40 CFR 63.1960(b) and 40 CFR 60.36f(b). Permit No. 588 Landfill has a surface area of approximately 17.3 acres. Therefore, the minimum number of sampling points to cover the appropriate portion of the landfill footprint, utilizing a 30-meter grid interval, is approximately 82 (4.75 points per acre). A summary of the results of the surface emissions monitoring is provided in Table 1.



Table 1. Summary of Surface Emissions Monitoring

Description	Quantity
Number of Points Sampled	168
Number of Points in Serpentine Route	100
Number of Points at Surface Cover Penetrations	68
Number of Exceedances	0
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	0

REMONITORING OF ONGOING EXCEEDANCES

In accordance with 40 CFR 63.1960(c)(4)(ii) and 40 CFR 60.36f(c)(4)(ii), corrective actions and a remonitoring event are to be performed within 10 days of the initial exceedance. In accordance with 40 CFR 63.1960(c)(4)(iii) and 40 CFR 60.36f(c)(4)(iii) additional corrective actions and a second 10-day retest are to be performed if the initial 10-day retest indicates methane values greater than the regulatory threshold. The Facility performs corrective actions, as necessary, including wellhead vacuum adjustments, the installation of well-bore seals, and addition of soil cover prior to weekly monitoring events at locations that previously exhibited elevated methane concentrations.

In accordance with 40 CFR 63.1960(c)(4)(v) and 40 CFR 60.36f(c)(4)(v) a new well or collection device must be installed or an alternate remedy must be submitted within 120 days at locations that continue to exhibit methane concentrations above the regulatory threshold for two consecutive re-tests.

A summary of ongoing exceedance points is provided in Table 2.

Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	7/30/26 Event	7/30/26 Event Result	Comments
EW-55	6/25/26	N/A	Passed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-58	7/2/26	N/A	Passed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-53	7/8/26	N/A	Passed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-67	7/16/26	2 nd 10-Day Retest	Passed	Requires 1-Month Retest

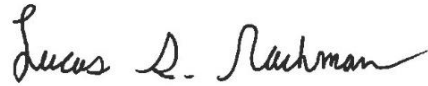
Ms. Susan "Tracey" Blalock
August 5, 2026
Page 3

If you have questions or require additional information, please contact either of the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "William J. Fabrie". The signature is written in a cursive style with a large, stylized "F".

William J. Fabrie
Project Professional
SCS Engineers

A handwritten signature in black ink, appearing to read "Lucas S. Nachman". The signature is written in a cursive style with a large, stylized "L".

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WJF

cc: Jonathan Hayes, City of Bristol
Laura Helander, City of Bristol

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 30, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
1	0.0 PPM	OK			Start Serpentine Route
2	0.0 PPM	OK			
3	0.0 PPM	OK			
4	0.0 PPM	OK			
5	0.0 PPM	OK			
6	0.0 PPM	OK			
7	0.0 PPM	OK			
8	0.0 PPM	OK			
9	0.0 PPM	OK			
10	0.0 PPM	OK			
11	0.0 PPM	OK			
12	0.0 PPM	OK			
13	0.0 PPM	OK			
14	0.0 PPM	OK			
15	0.0 PPM	OK			
16	0.0 PPM	OK			
17	0.0 PPM	OK			
18	0.0 PPM	OK			
19	0.0 PPM	OK			
20	0.0 PPM	OK			
21	0.0 PPM	OK			
22	0.0 PPM	OK			
23	0.0 PPM	OK			
24	0.0 PPM	OK			
25	0.0 PPM	OK			
26	1.0 PPM	OK			
27	0.0 PPM	OK			
28	0.0 PPM	OK			
29	0.0 PPM	OK			
30	0.0 PPM	OK			
31	13.0 PPM	OK			
32	26.0 PPM	OK			
33	0.0 PPM	OK			
34	0.0 PPM	OK			
35	0.0 PPM	OK			
36	1.0 PPM	OK			
37	0.0 PPM	OK			
38	0.0 PPM	OK			
39	0.0 PPM	OK			
40	0.0 PPM	OK			
41	9.0 PPM	OK			
42	2.0 PPM	OK			
43	0.0 PPM	OK			
44	0.0 PPM	OK			
45	0.0 PPM	OK			
46	0.0 PPM	OK			
47	0.0 PPM	OK			
48	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 30, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
49	0.0 PPM	OK			
50	0.0 PPM	OK			
51	1.0 PPM	OK			
52	0.0 PPM	OK			
53	0.0 PPM	OK			
54	0.0 PPM	OK			
55	35.0 PPM	OK			
56	0.0 PPM	OK			
57	0.0 PPM	OK			
58	0.0 PPM	OK			
59	0.0 PPM	OK			
60	2.0 PPM	OK			
61	0.0 PPM	OK			
62	0.0 PPM	OK			
63	0.0 PPM	OK			
64	0.0 PPM	OK			
65	1.0 PPM	OK			
66	0.0 PPM	OK			
67	0.0 PPM	OK			
68	0.0 PPM	OK			
69	0.0 PPM	OK			
70	0.0 PPM	OK			
71	0.0 PPM	OK			
72	0.0 PPM	OK			
73	0.0 PPM	OK			
74	0.0 PPM	OK			
75	0.0 PPM	OK			
76	1.0 PPM	OK			
77	0.0 PPM	OK			
78	0.0 PPM	OK			
79	0.0 PPM	OK			
80	1.0 PPM	OK			
81	1.0 PPM	OK			
82	0.0 PPM	OK			
83	0.0 PPM	OK			
84	0.0 PPM	OK			
85	0.0 PPM	OK			
86	1.0 PPM	OK			
87	0.0 PPM	OK			
88	0.0 PPM	OK			
89	0.0 PPM	OK			
90	0.0 PPM	OK			
91	0.0 PPM	OK			
92	0.0 PPM	OK			
93	0.0 PPM	OK			
94	0.0 PPM	OK			
95	0.0 PPM	OK			
96	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 30, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
97	0.0 PPM	OK			
98	0.0 PPM	OK			
99	0.0 PPM	OK			
100	0.0 PPM	OK			End Serpentine Route
101	0.0 PPM	OK			EW-75
102	0.0 PPM	OK			EW-74
103	0.0 PPM	OK			EW-62
104	0.0 PPM	OK			EW-33B
105	0.0 PPM	OK			TP-9
106	30.0 PPM	OK			EW-76
107	0.0 PPM	OK			EW-42
108	0.0 PPM	OK			EW-63
109	0.0 PPM	OK			EW-77
110	0.0 PPM	OK			EW-79
111	0.0 PPM	OK			EW-64
112	0.0 PPM	OK			TP-8
113	0.0 PPM	OK			EW-81
114	0.0 PPM	OK			EW-83
115	0.0 PPM	OK			EW-80
116	0.0 PPM	OK			EW-84
117	0.0 PPM	OK			EW-49
118	0.0 PPM	OK			TP-7
119	1.0 PPM	OK			EW-86
120	0.0 PPM	OK			EW-90
121	0.0 PPM	OK			EW-95
122	0.0 PPM	OK			EW-97
123	0.0 PPM	OK			EW-99
124	0.0 PPM	OK			EW-56
125	0.0 PPM	OK			EW-100
126	3.0 PPM	OK			EW-59
127	0.0 PPM	OK			TP-1
128	0.0 PPM	OK			EW-57
129	0.0 PPM	OK			EW-58
130	7.0 PPM	OK			EW-98
131	0.0 PPM	OK			EW-66
132	0.0 PPM	OK			HC-01
133	0.0 PPM	OK			EW-53
134	0.0 PPM	OK			EW-96
135	0.0 PPM	OK			EW-67
136	0.0 PPM	OK			EW-47
137	0.0 PPM	OK			EW-54
138	0.0 PPM	OK			EW-55
139	0.0 PPM	OK			EW-94
140	0.0 PPM	OK			EW-93
141	0.0 PPM	OK			EW-92
142	0.0 PPM	OK			EW-91
143	0.0 PPM	OK			EW-51
144	0.0 PPM	OK			TP-5

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JULY 30, 2026
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates		Comments
			Lat.	Long.	
145	0.0 PPM	OK			EW-68
146	0.0 PPM	OK			EW-52
147	0.0 PPM	OK			TP-4
148	0.0 PPM	OK			HC-02
149	0.0 PPM	OK			EW-89
150	0.0 PPM	OK			EW-60
151	0.0 PPM	OK			EW-87
152	0.0 PPM	OK			EW-38
153	0.0 PPM	OK			EW-48
154	0.0 PPM	OK			EW-88
155	0.0 PPM	OK			EW-85
156	0.0 PPM	OK			EW-61
157	0.0 PPM	OK			TP-6
158	0.0 PPM	OK			EW-50
159	0.0 PPM	OK			EW-36A
160	0.0 PPM	OK			EW-65
161	4.0 PPM	OK			EW-82
162	2.0 PPM	OK			EW-78
163	4.0 PPM	OK			EW-73
164	0.0 PPM	OK			EW-70
165	0.0 PPM	OK			EW-69
166	0.0 PPM	OK			EW-71
167	0.0 PPM	OK			EW-72
168	0.0 PPM	OK			EW-32R

Number of locations sampled:	168
Number of exceedance locations:	0

NOTES:

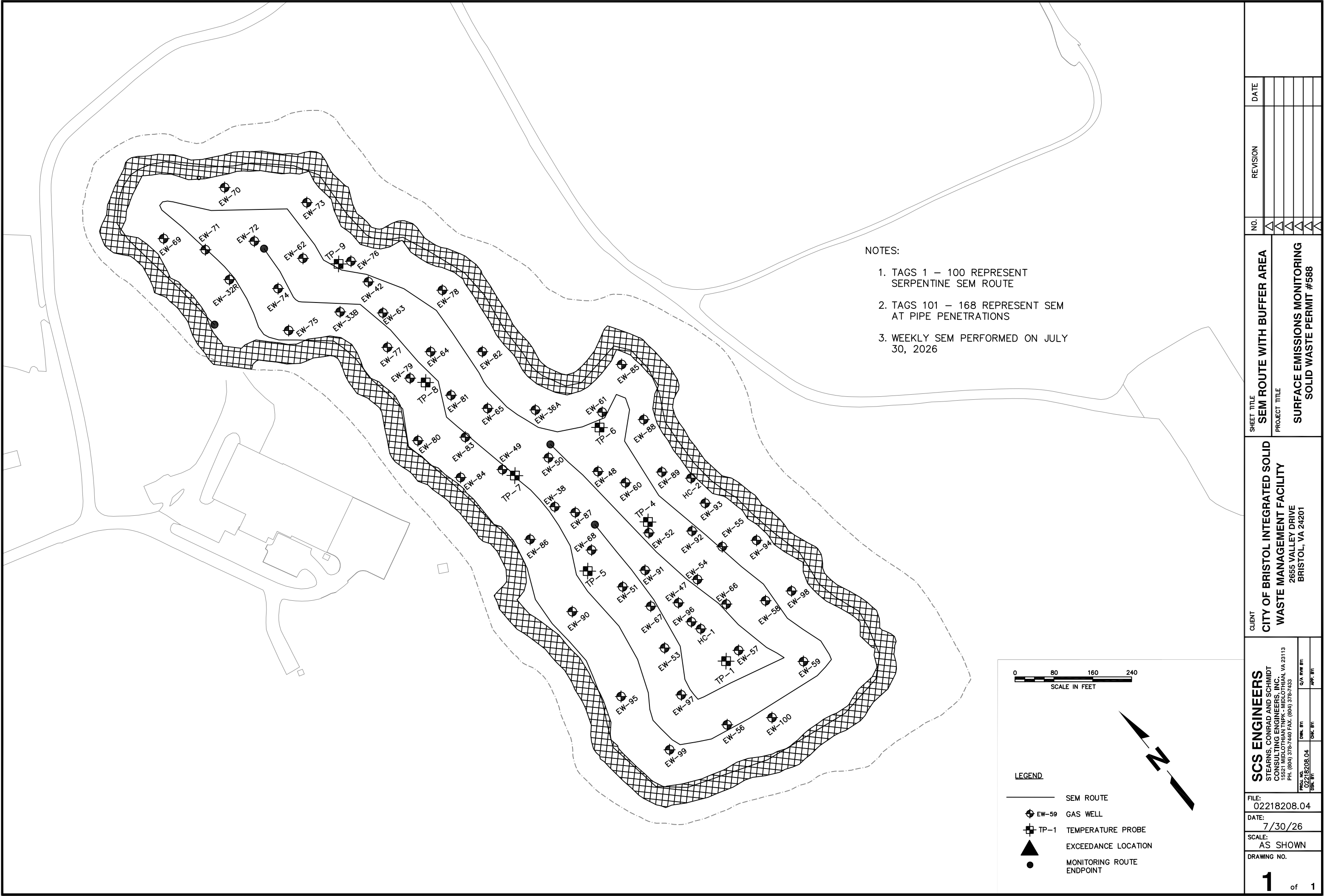
Points 1 through 100 represent serpentine SEM route.
Points 101 through 168 represent SEM at Pipe Penetrations
Weather Conditions: Clear, 65°F Wind: 2 mph S

Sampling Calibration: Methane - 500 ppm, Zero Air - 0.0 ppm

7/30/2026	6:28	ZERO	0.0	PPM
7/30/2026	6:28	SPAN	497.7	PPM

Background Reading:

7/30/2026	6:31	Upwind	0.0	PPM
7/30/2026	6:39	Downwind	0.0	PPM



CLIENT		SHEET TITLE		NO.		REVISION		DATE	
CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY 2655 VALLEY DRIVE BRISTOL, VA 24201		SEM ROUTE WITH BUFFER AREA		1					
		SURFACE EMISSIONS MONITORING SOLID WASTE PERMIT #588		1					
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 15521 MIDLOTHIAN TNRK - MIDLOTHIAN, VA 23113 PH. (804) 378-7440 FAX. (804) 378-7433		PROJECT TITLE		1					
				1					
FILE: 02218208.04		DATE: 7/30/26		SCALE: AS SHOWN		DRAWING NO.		1 of 1	
PROJ. NO. 02218208.04		DWN. BY: CHC. BY:		C/A R/W BY: APP. BY:					



Appendix B

In-Waste Temperatures on Select Days in May

Appendix B Figures

Figure B - 1 Average Temperatures Recorded by TP-1 on July 1, 2026	3
Figure B - 2 Average Temperatures Recorded by TP-1 on July 8, 2026	3
Figure B - 3 Average Temperatures Recorded by TP-1 on July 15, 2026	4
Figure B - 4 Average Temperatures Recorded by TP-1 on July 22, 2026	4
Figure B - 4 Average Temperatures Recorded by TP-1 on July 29, 2026	5
Figure B - 5 Average Temperatures Recorded by TP-5 on July 1, 2026	6
Figure B - 6 Average Temperatures Recorded by TP-5 on July 8, 2026	6
Figure B - 7 Average Temperatures Recorded by TP-5 on July 15, 2026	7
Figure B - 8 Average Temperatures Recorded by TP-5 on July 22, 2026	7
Figure B - 8 Average Temperatures Recorded by TP-5 on July 29, 2026	8
Figure B - 9 Average Temperatures Recorded by TP-6 on July 1, 2026	9
Figure B - 10 Average Temperatures Recorded by TP-6 on July 8, 2026	9
Figure B - 13 Average Temperatures Recorded by TP-8 on July 1, 2026	10
Figure B - 14 Average Temperatures Recorded by TP-8 on July 8, 2026	10
Figure B - 15 Average Temperatures Recorded by TP-8 on July 15, 2026	11
Figure B - 16 Average Temperatures Recorded by TP-8 on July 22, 2026	11
Figure B - 16 Average Temperatures Recorded by TP-8 on July 29, 2026	12
Figure B - 17 Average Temperatures Recorded by TP-9 on July 1, 2026	13
Figure B - 18 Average Temperatures Recorded by TP-9 on July 8, 2026	13
Figure B - 19 Average Temperatures Recorded by TP-9 on July 15, 2026	14
Figure B - 20 Average Temperatures Recorded by TP-9 on July 22, 2026	14
Figure B - 20 Average Temperatures Recorded by TP-9 on July 29, 2026	15

Figure B - 1 Average Temperatures Recorded by TP-1 on July 1, 2026

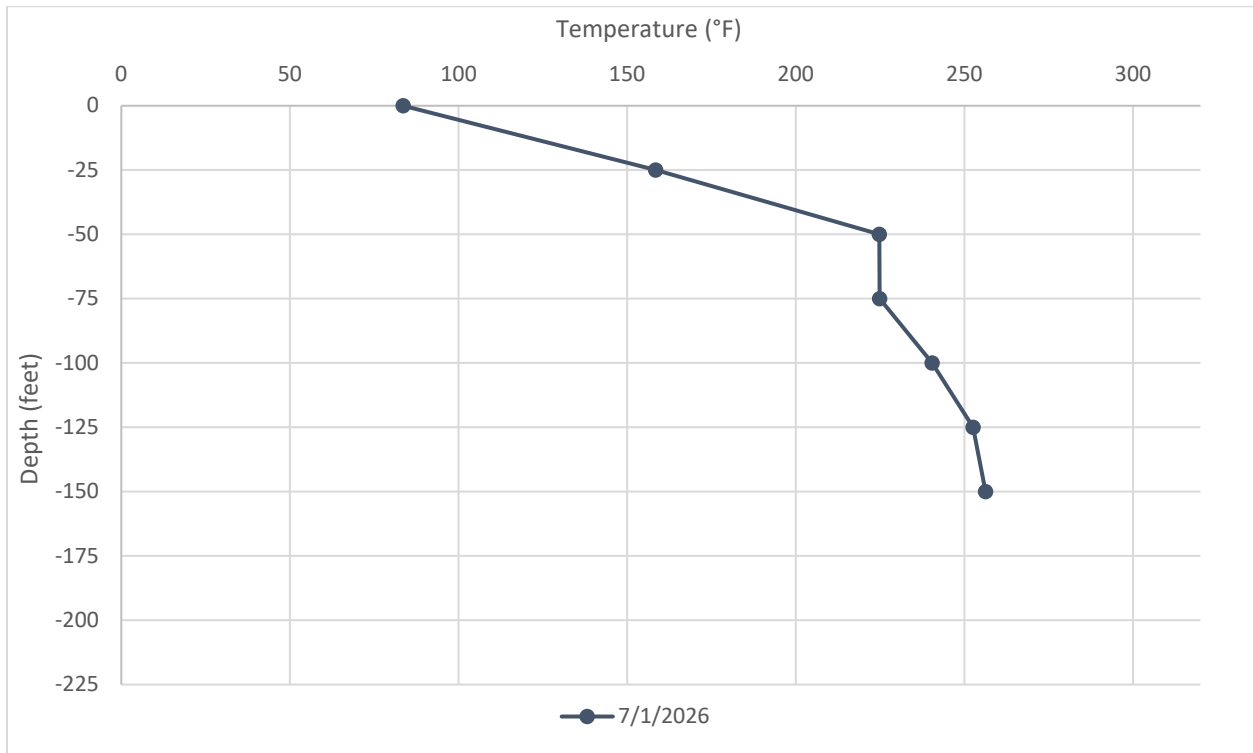


Figure B - 2 Average Temperatures Recorded by TP-1 on July 8, 2026

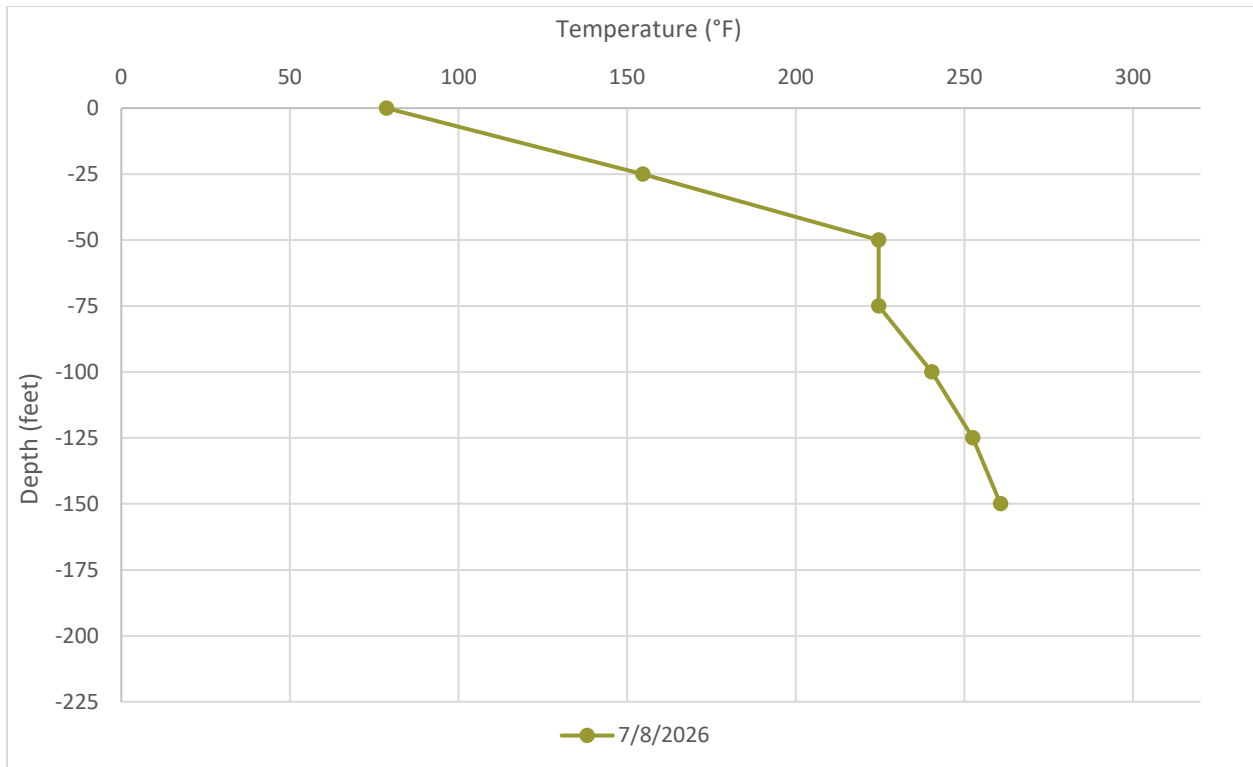


Figure B - 3 Average Temperatures Recorded by TP-1 on July 15, 2026

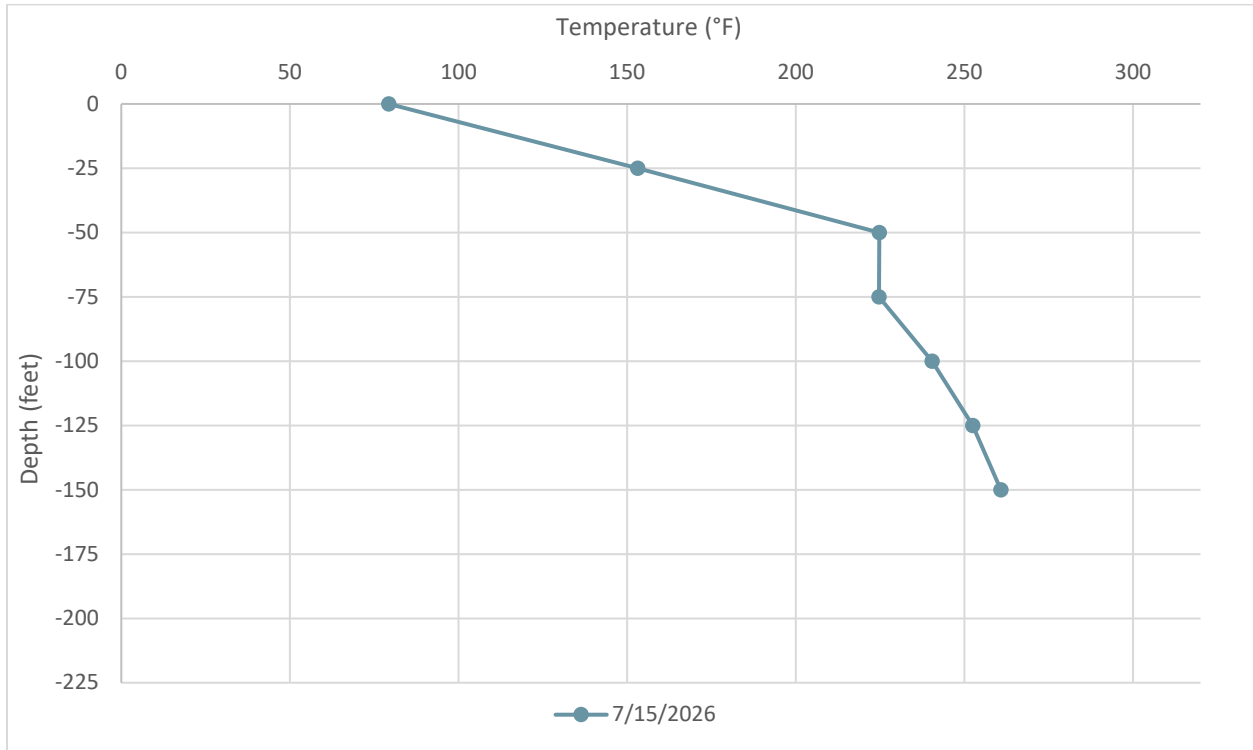


Figure B - 4 Average Temperatures Recorded by TP-1 on July 22, 2026

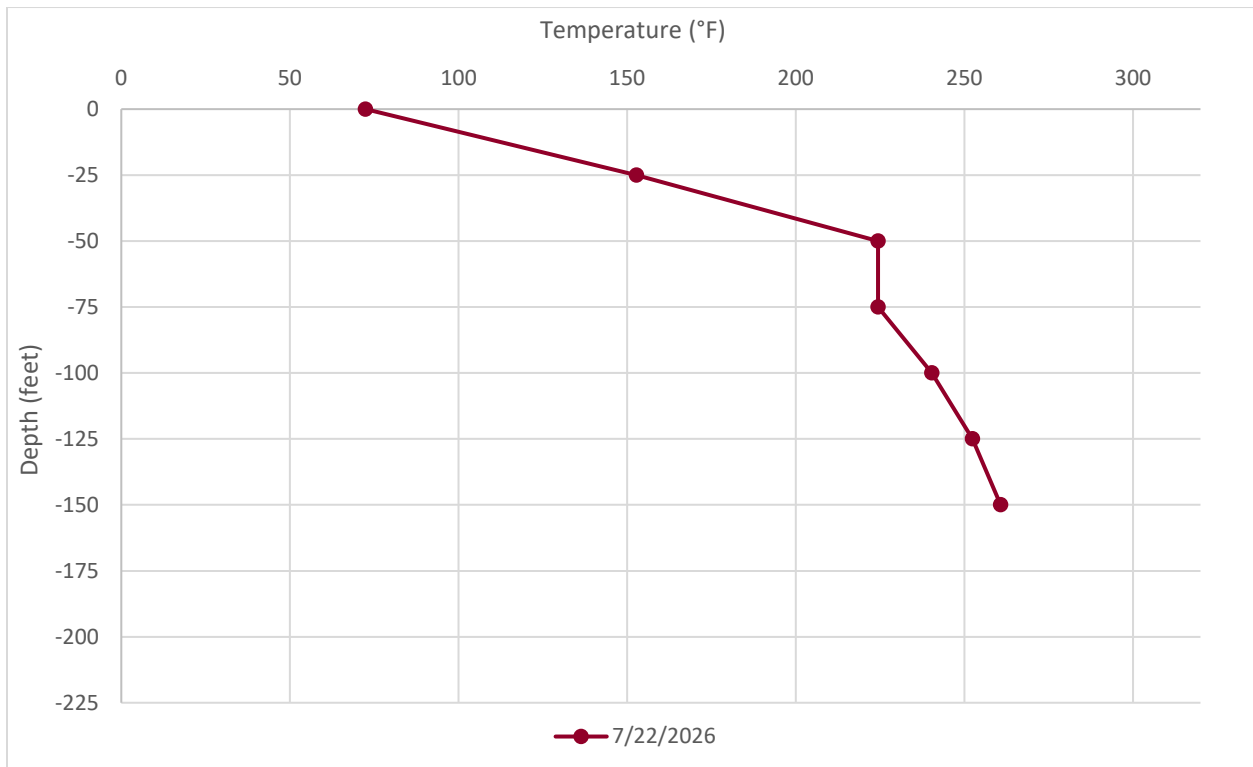


Figure B - 5 Average Temperatures Recorded by TP-1 on July 29, 2026

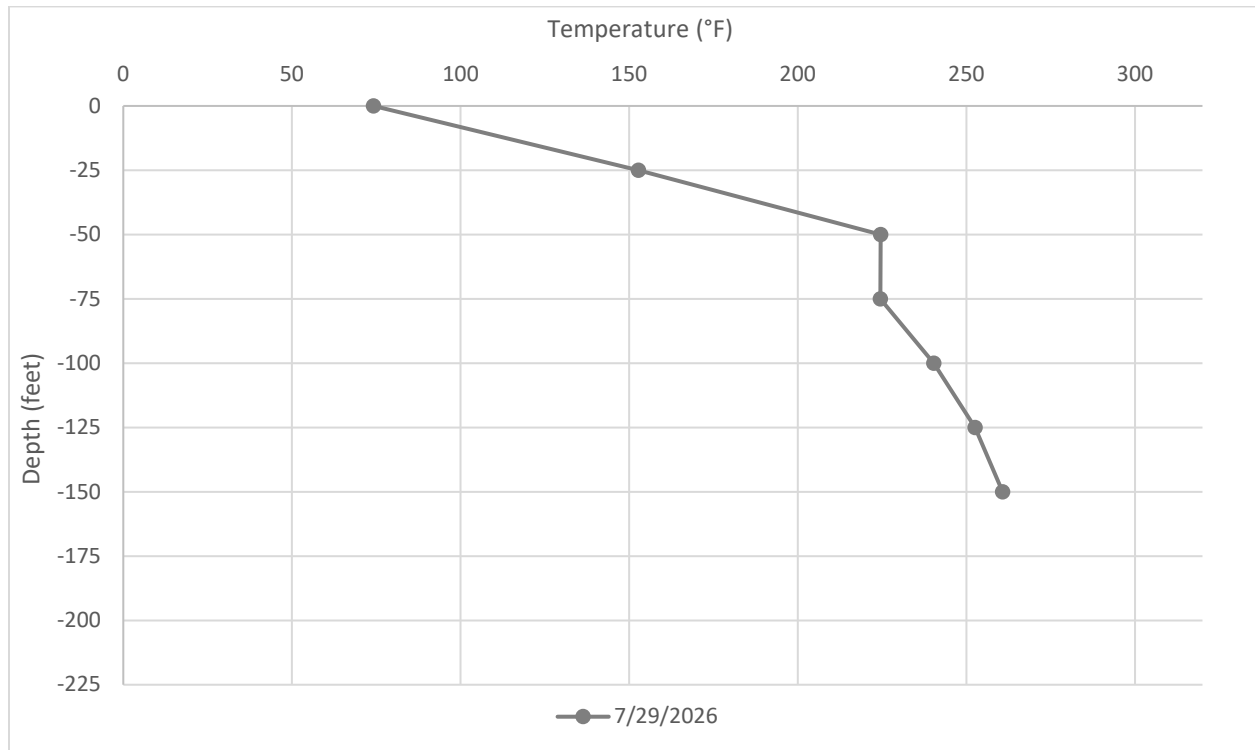


Figure B - 6 Average Temperatures Recorded by TP-5 on July 1, 2026

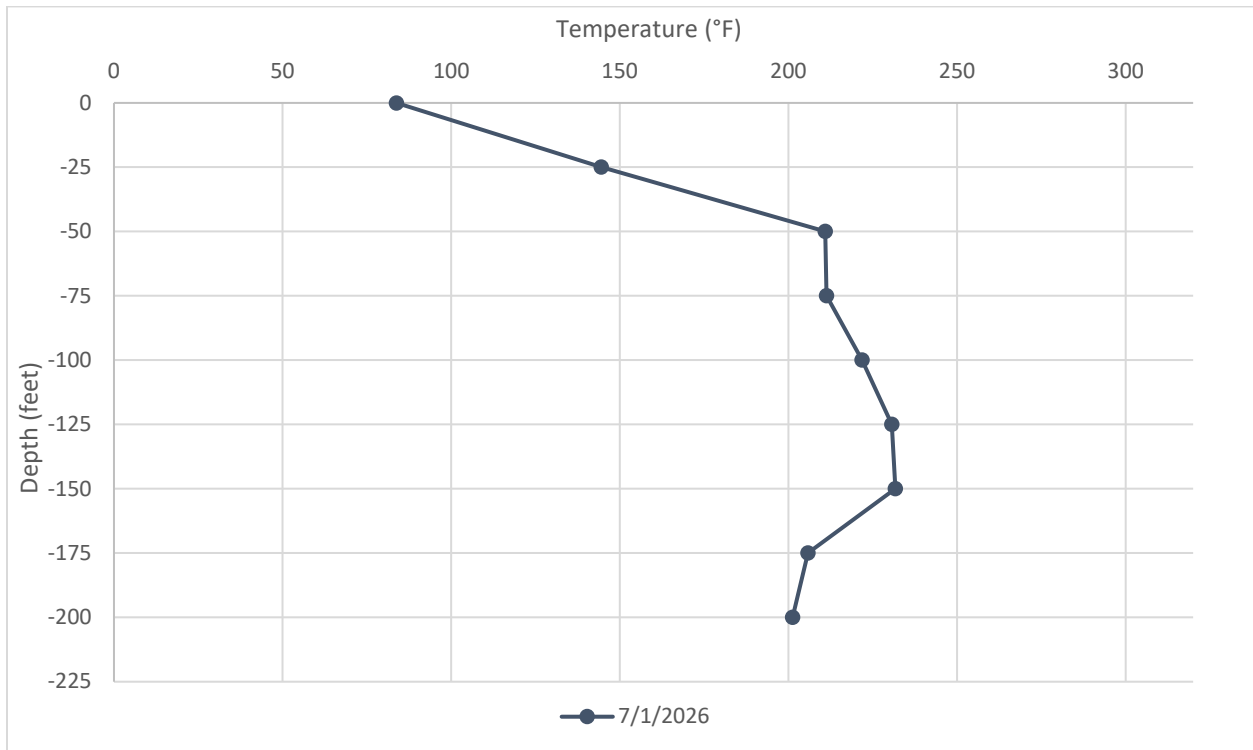


Figure B - 7 Average Temperatures Recorded by TP-5 on July 8, 2026

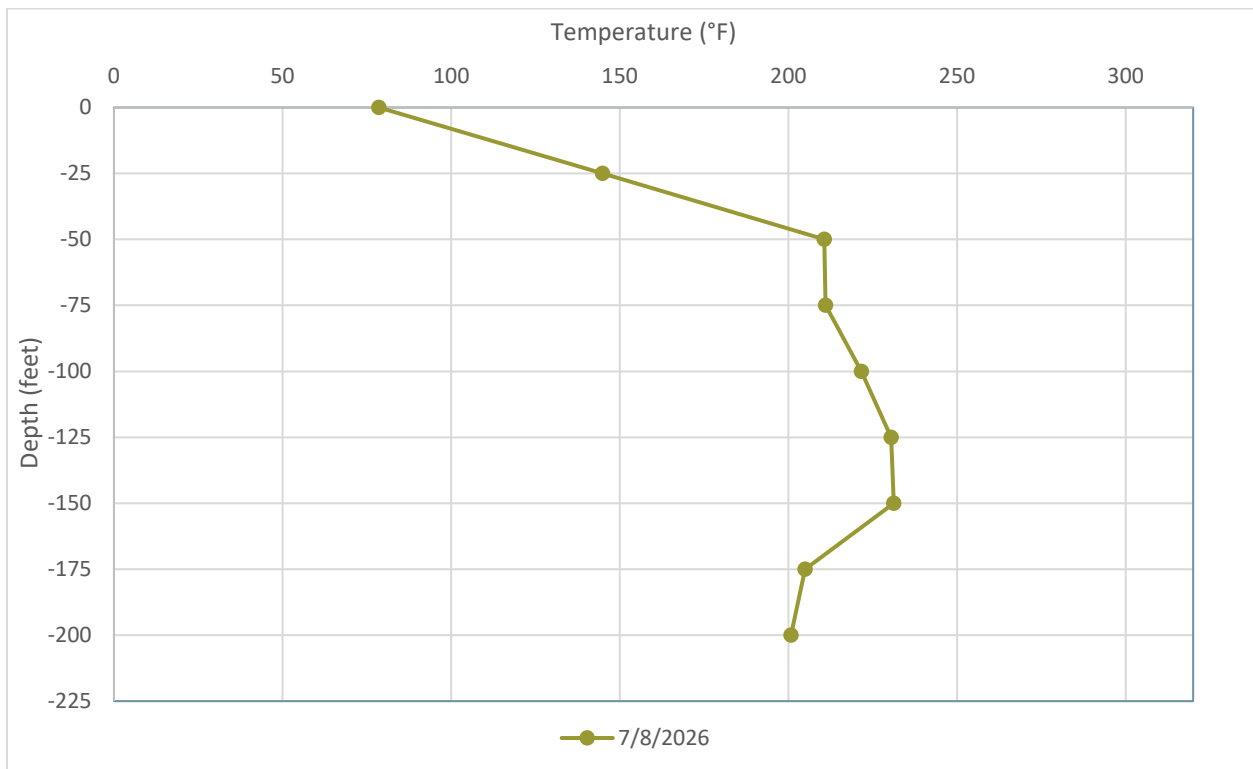


Figure B - 8 Average Temperatures Recorded by TP-5 on July 15, 2026

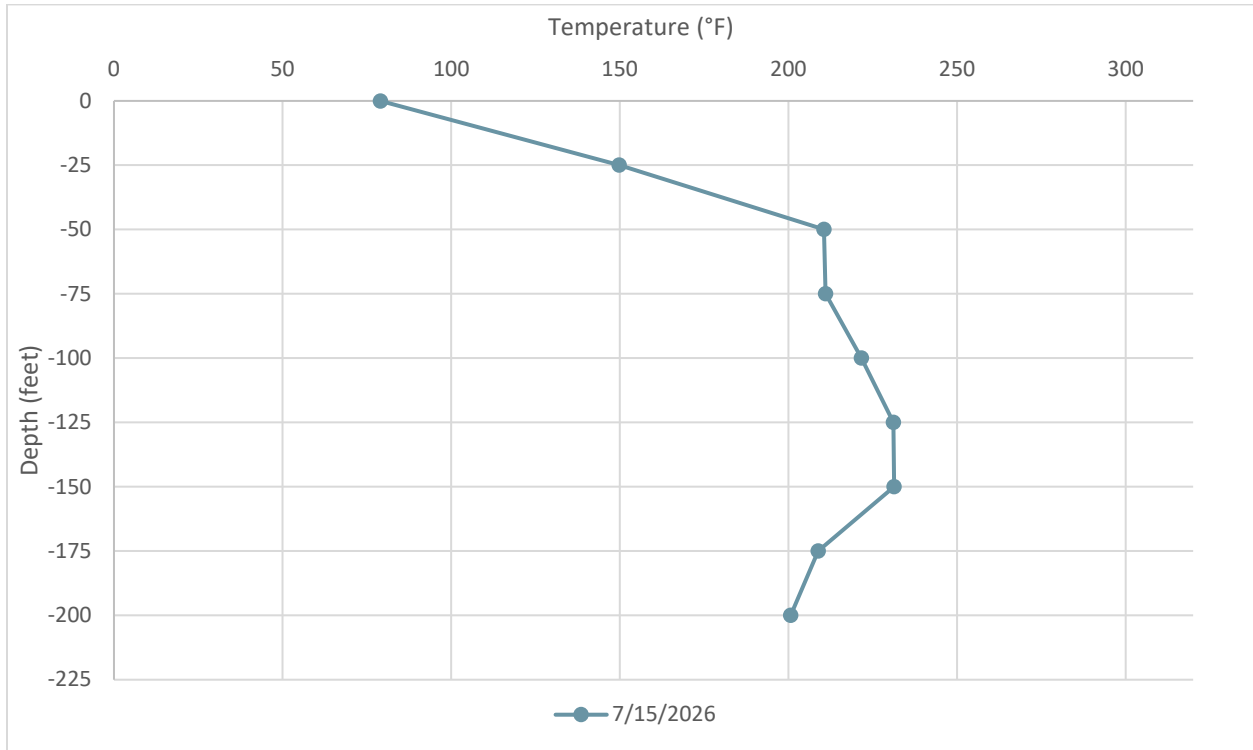


Figure B - 9 Average Temperatures Recorded by TP-5 on July 22, 2026

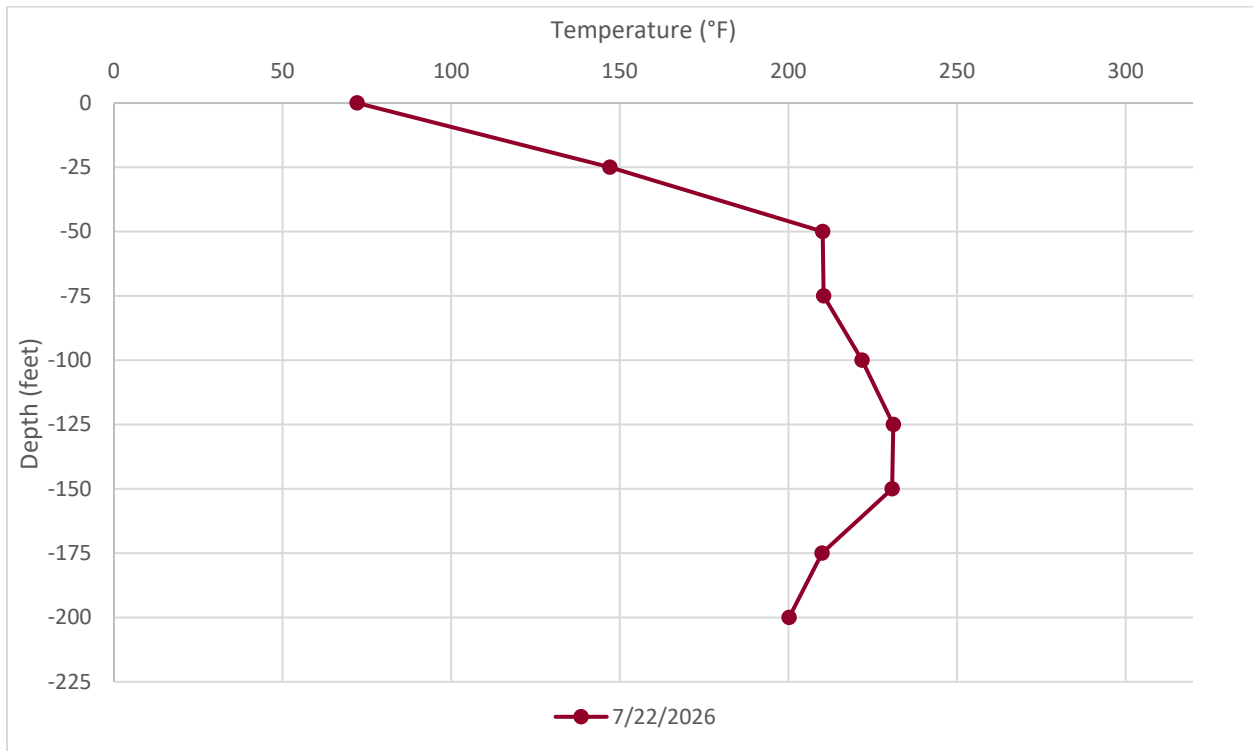


Figure B - 10 Average Temperatures Recorded by TP-5 on July 29, 2026

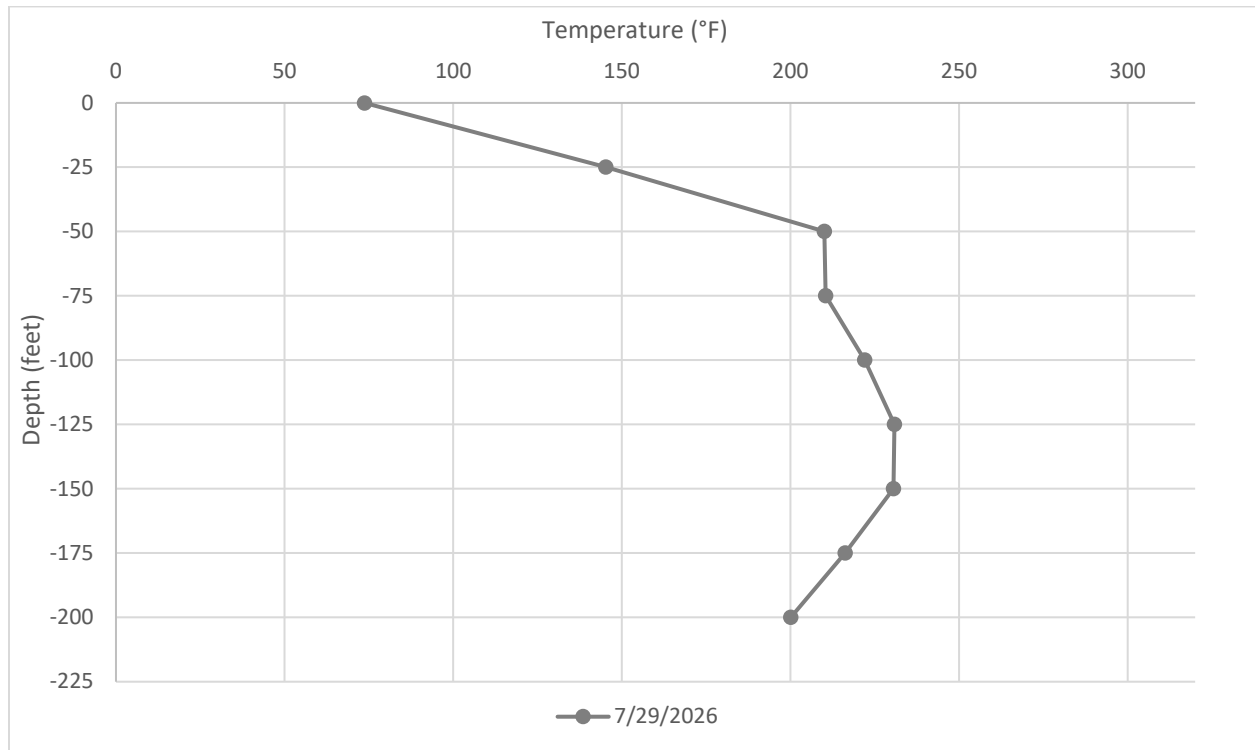


Figure B - 11 Average Temperatures Recorded by TP-6 on July 1, 2026

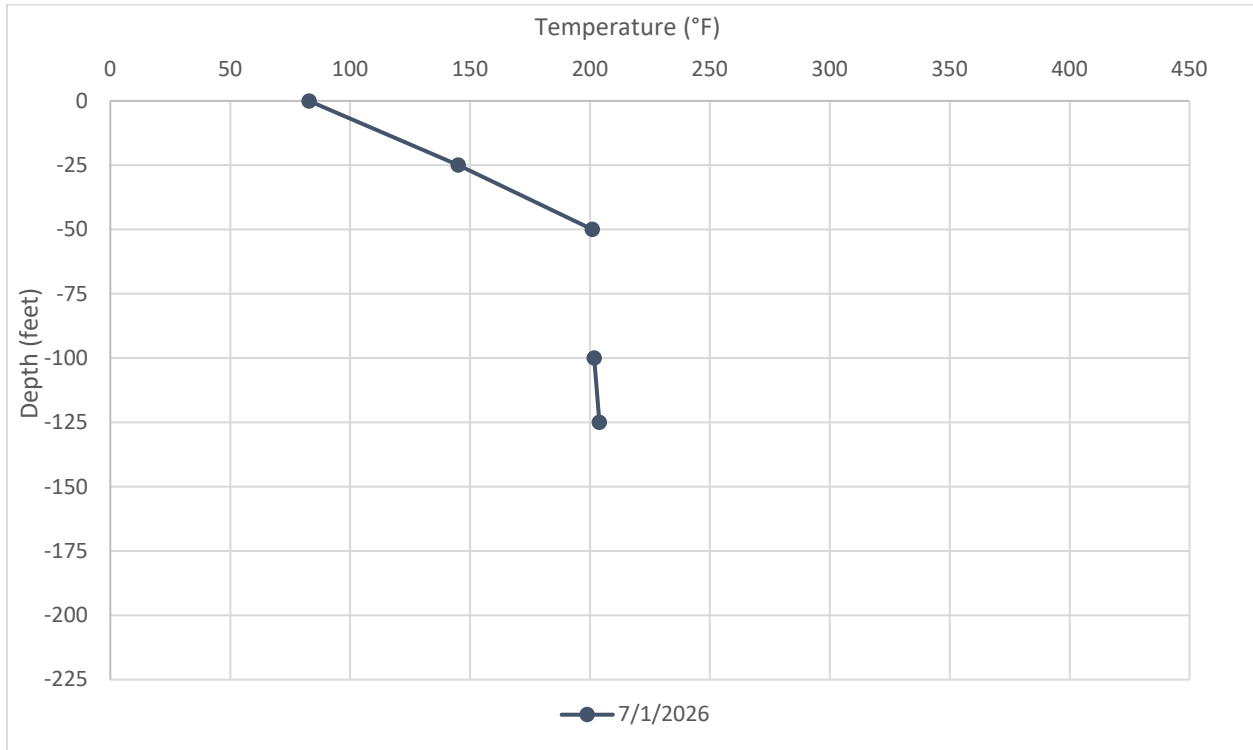


Figure B - 12 Average Temperatures Recorded by TP-6 on July 8, 2026

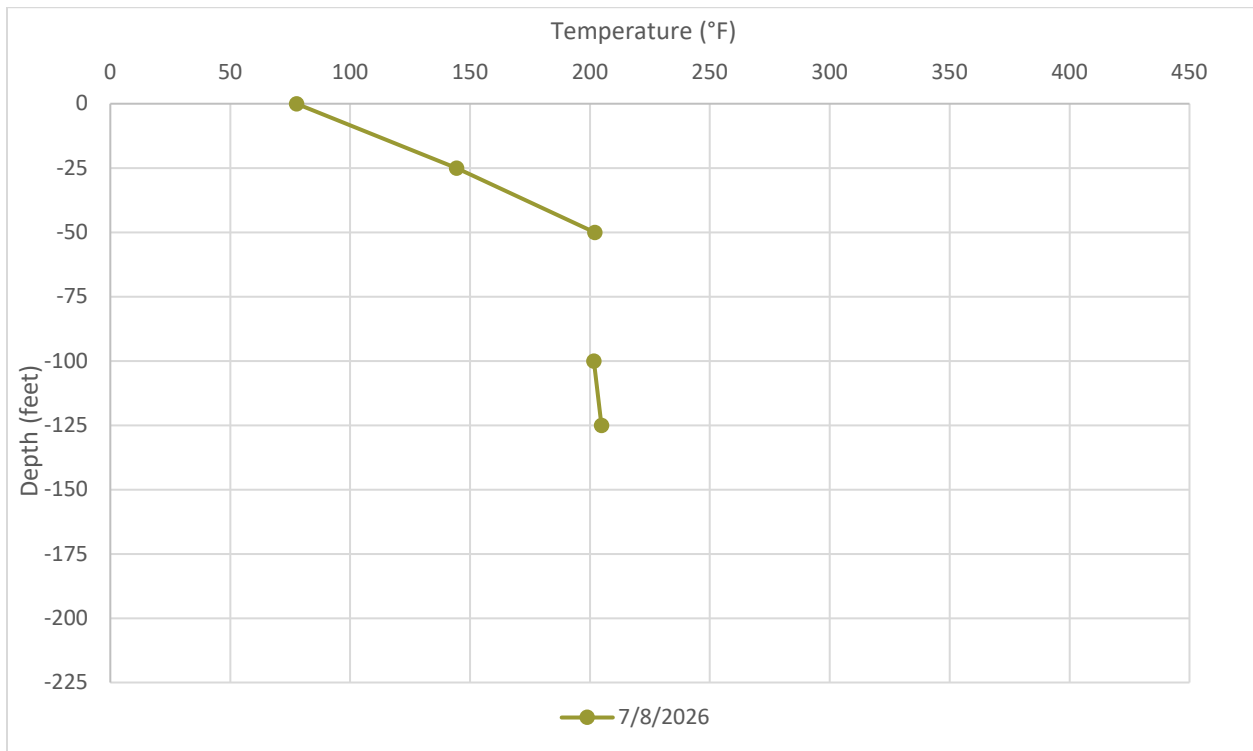


Figure B - 13 Average Temperatures Recorded by TP-8 on July 1, 2026

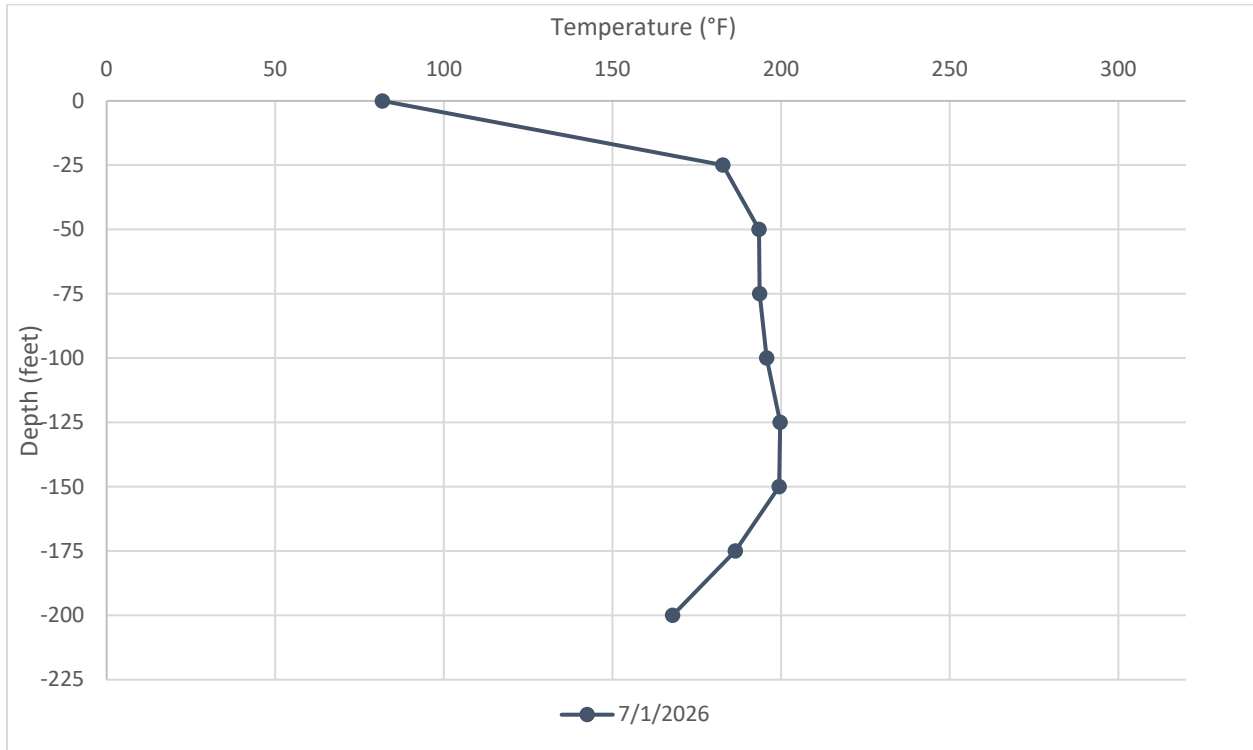


Figure B - 14 Average Temperatures Recorded by TP-8 on July 8, 2026

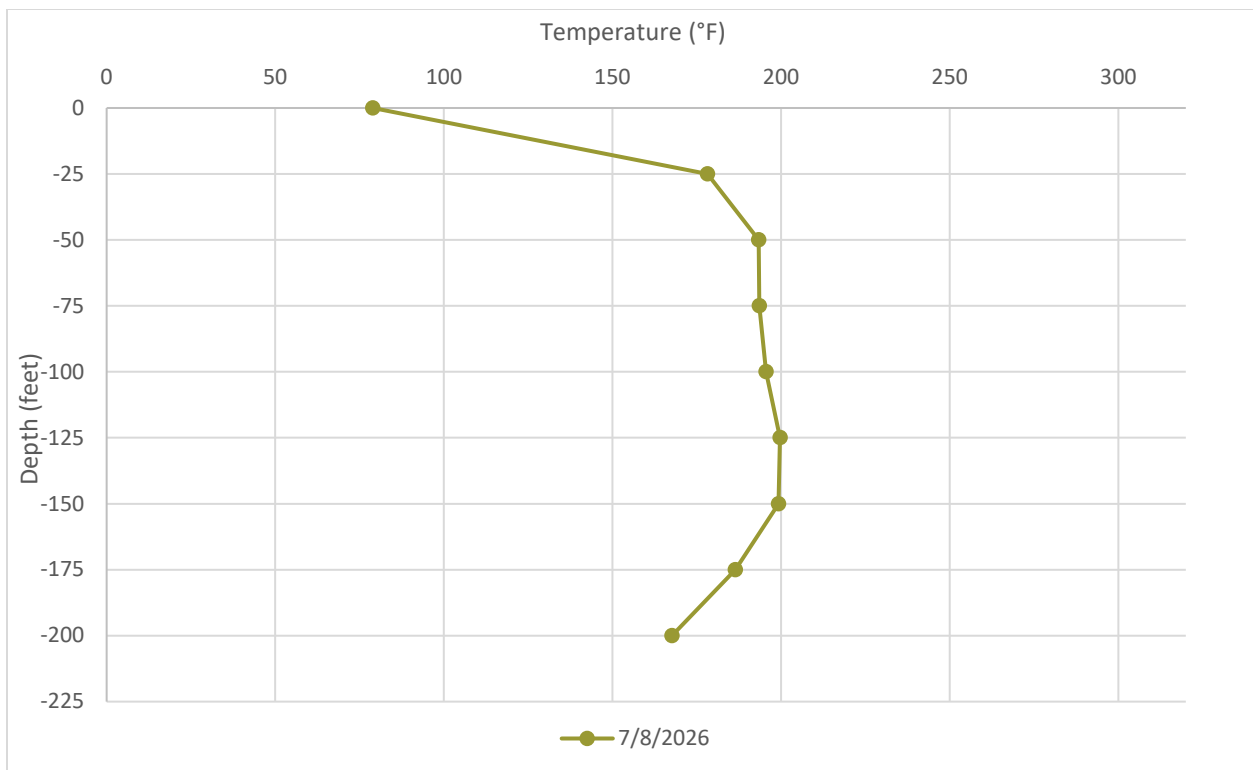


Figure B - 15 Average Temperatures Recorded by TP-8 on July 15, 2026

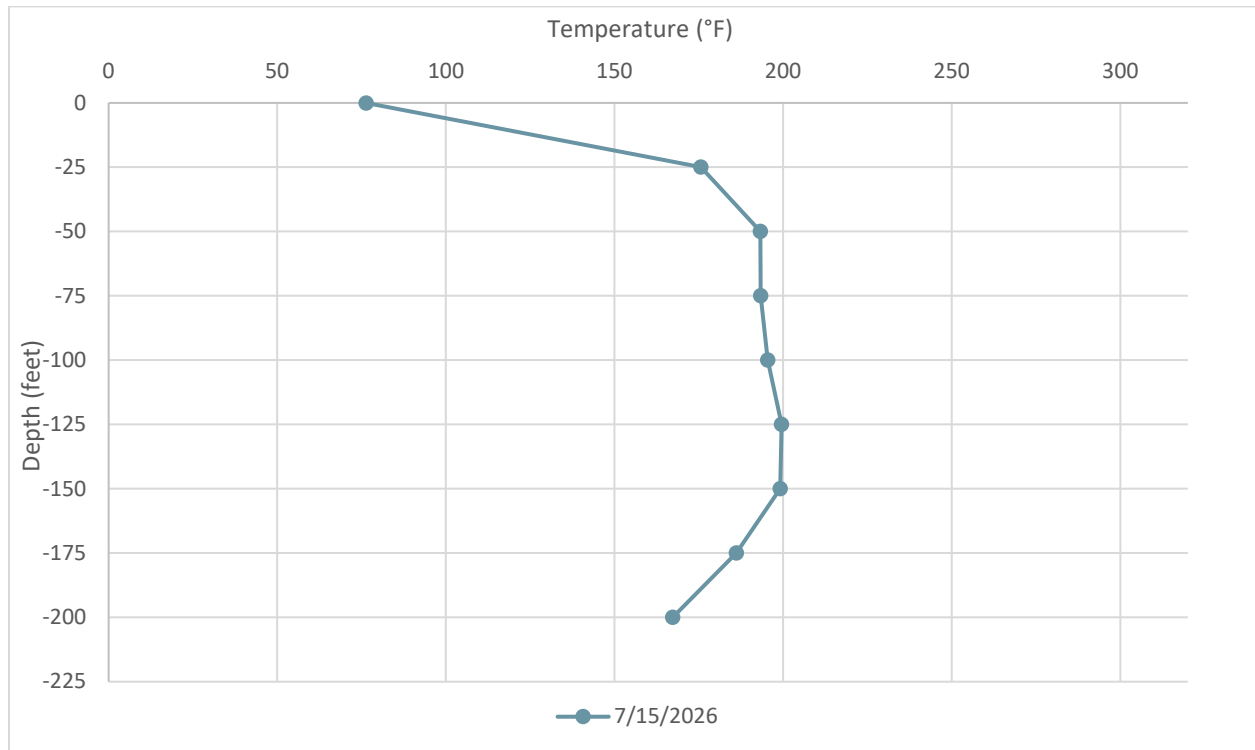


Figure B - 16 Average Temperatures Recorded by TP-8 on July 22, 2026

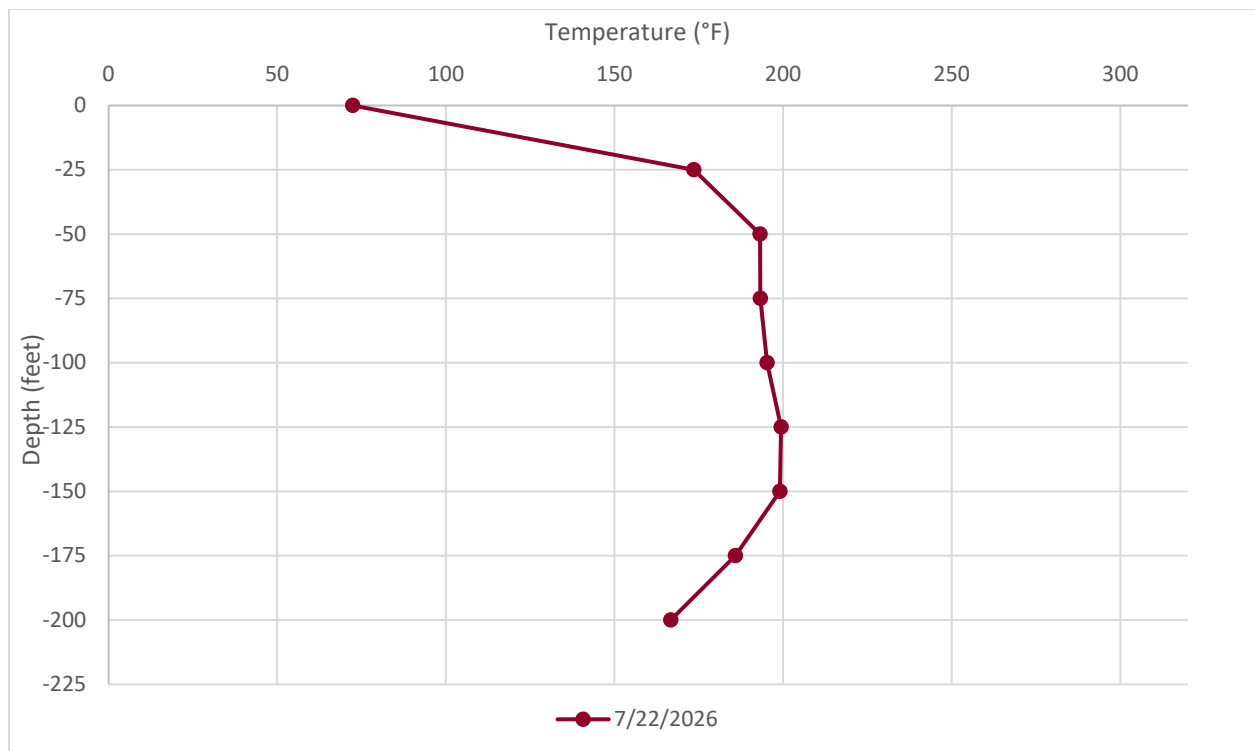


Figure B - 17 Average Temperatures Recorded by TP-8 on July 29, 2026

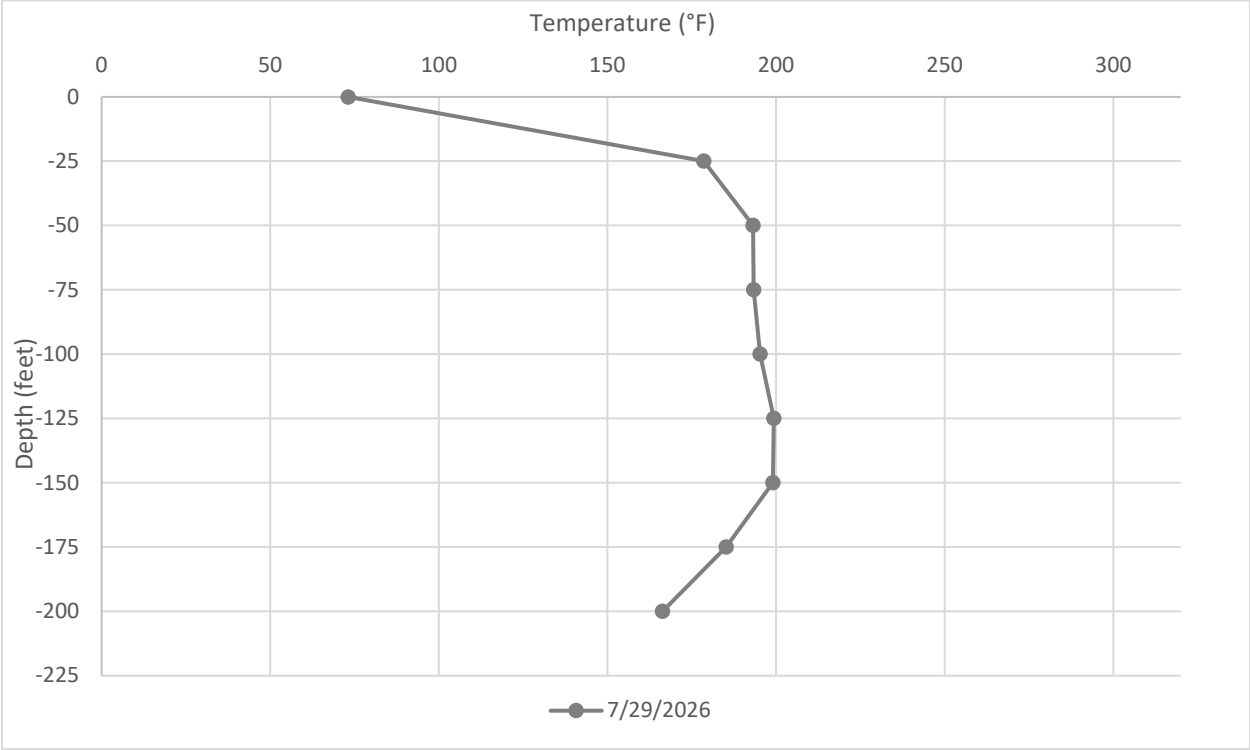


Figure B - 18 Average Temperatures Recorded by TP-9 on July 1, 2026

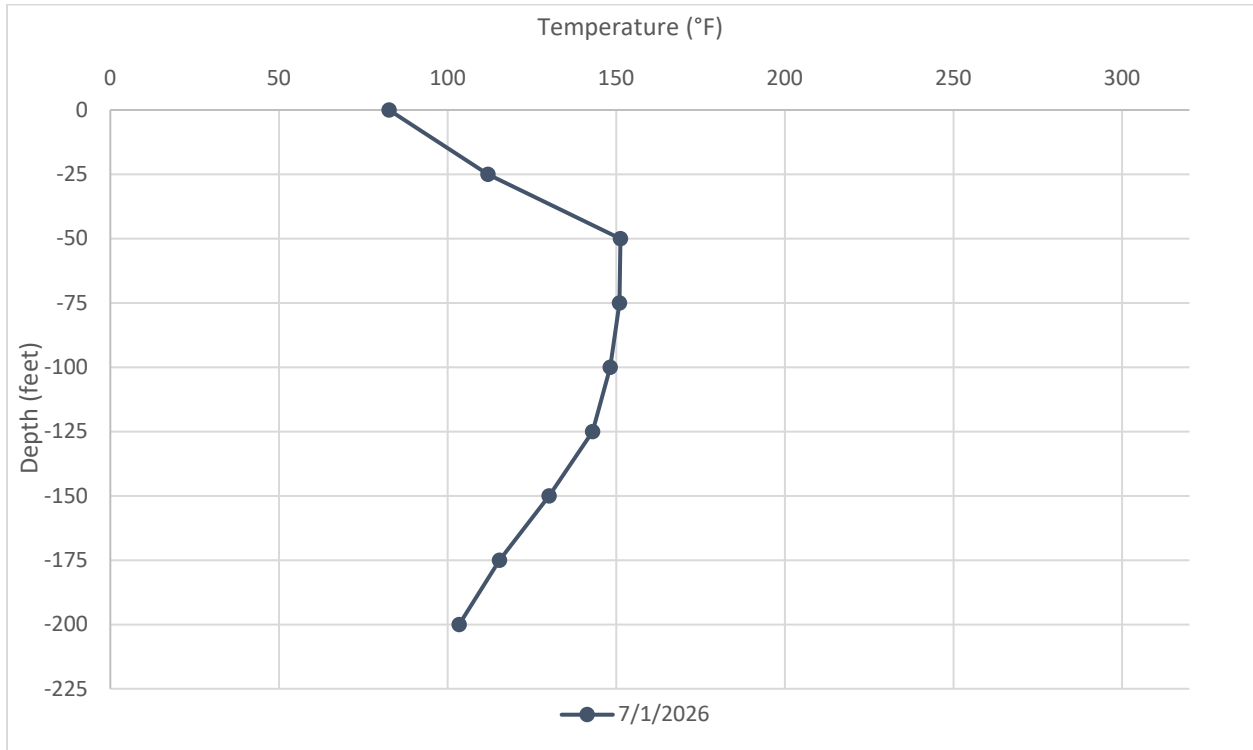


Figure B - 19 Average Temperatures Recorded by TP-9 on July 8, 2026

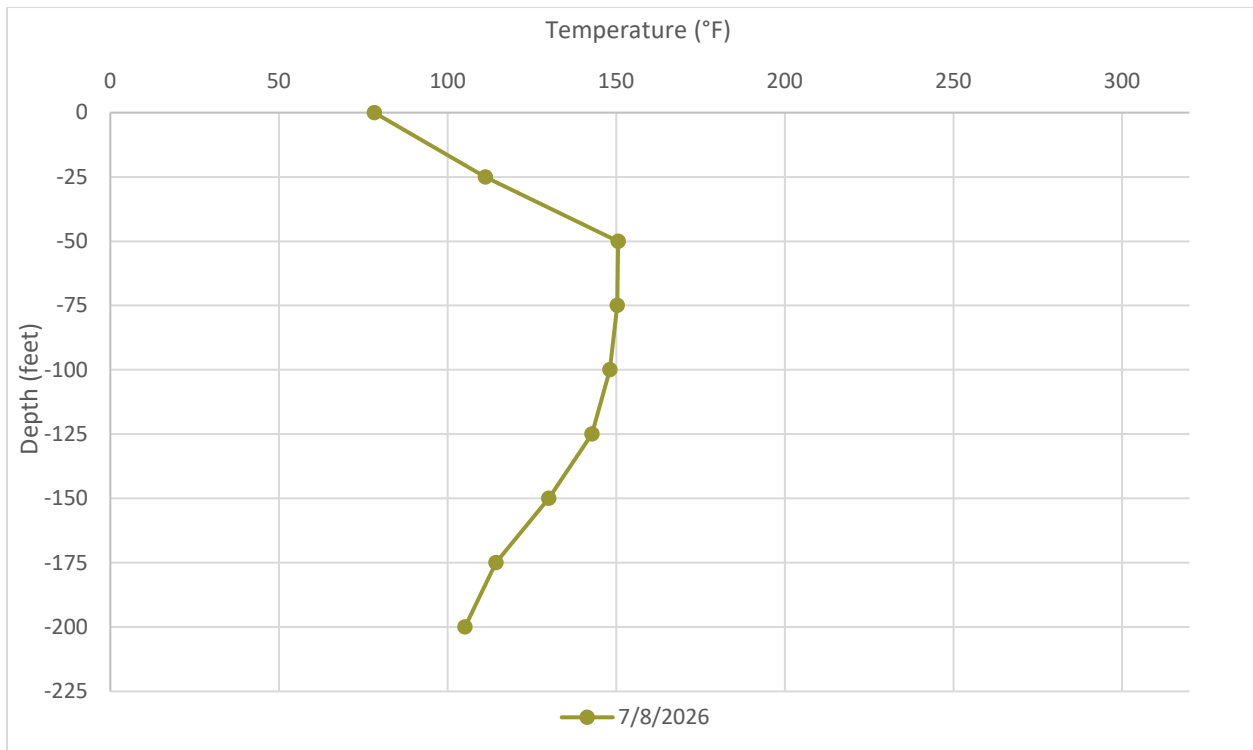


Figure B - 20 Average Temperatures Recorded by TP-9 on July 15, 2026

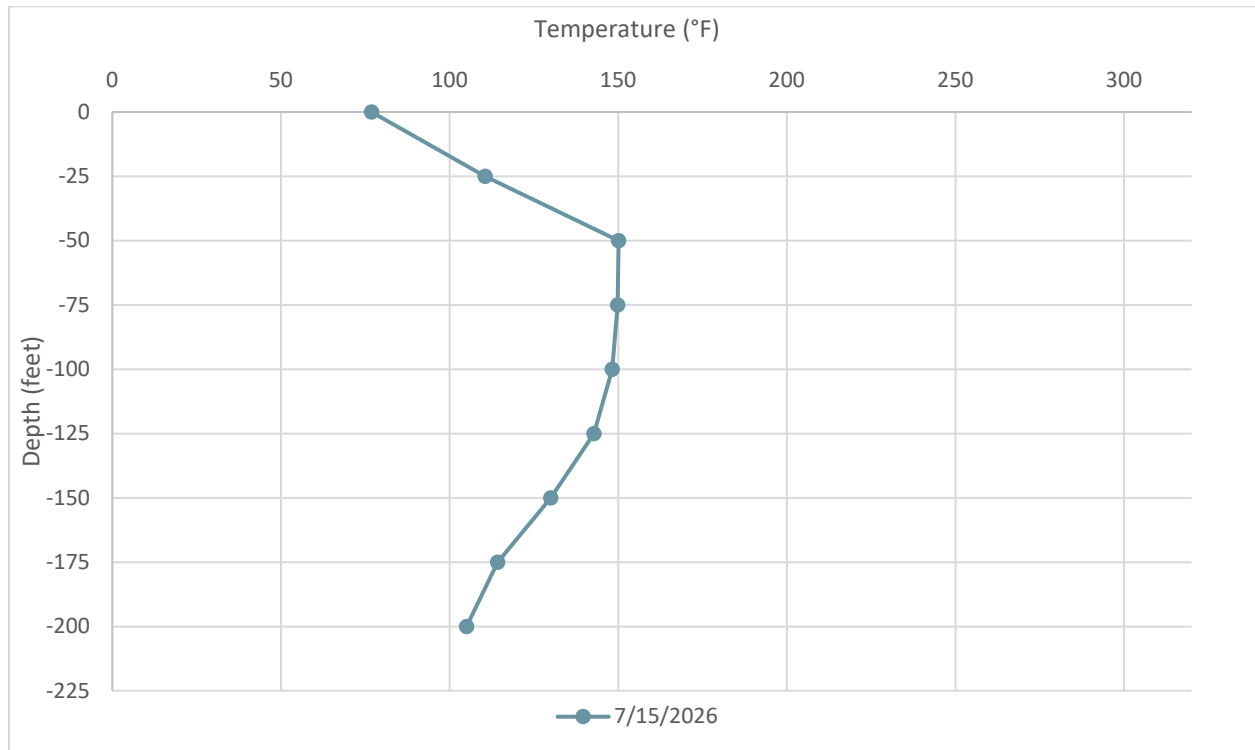


Figure B - 21 Average Temperatures Recorded by TP-9 on July 22, 2026

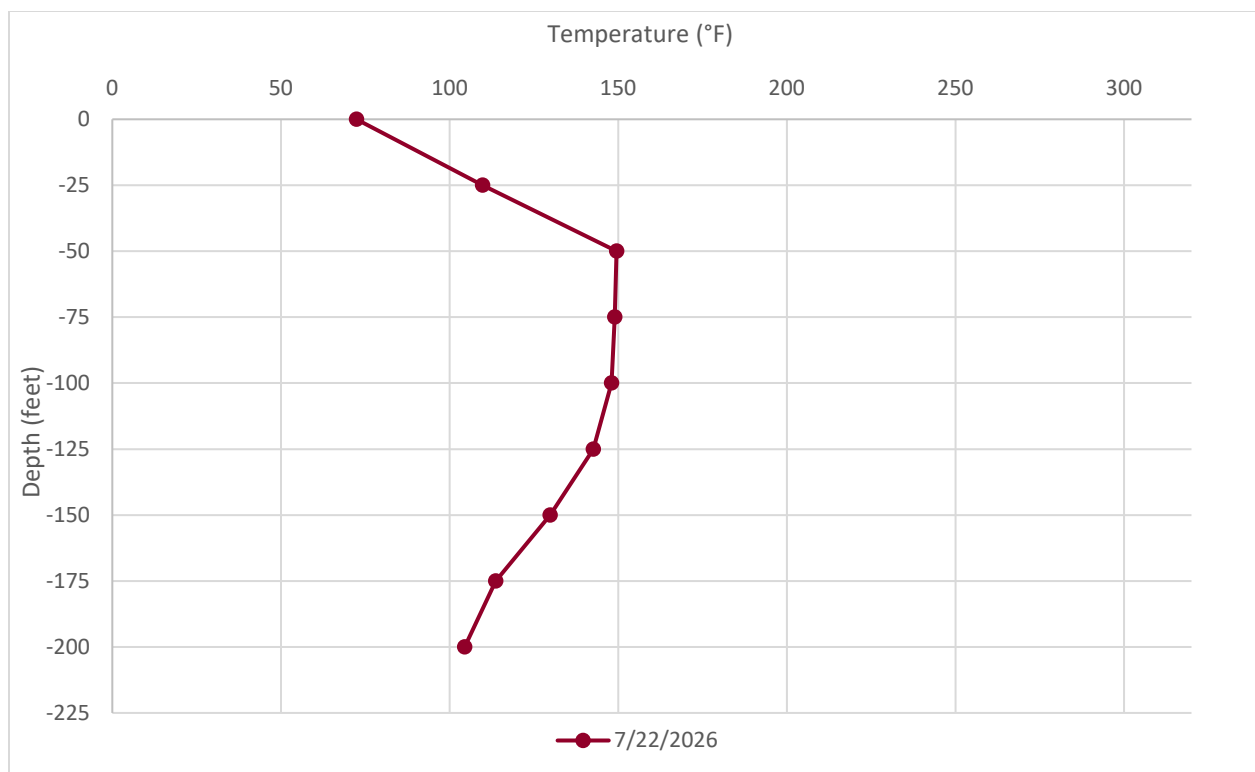
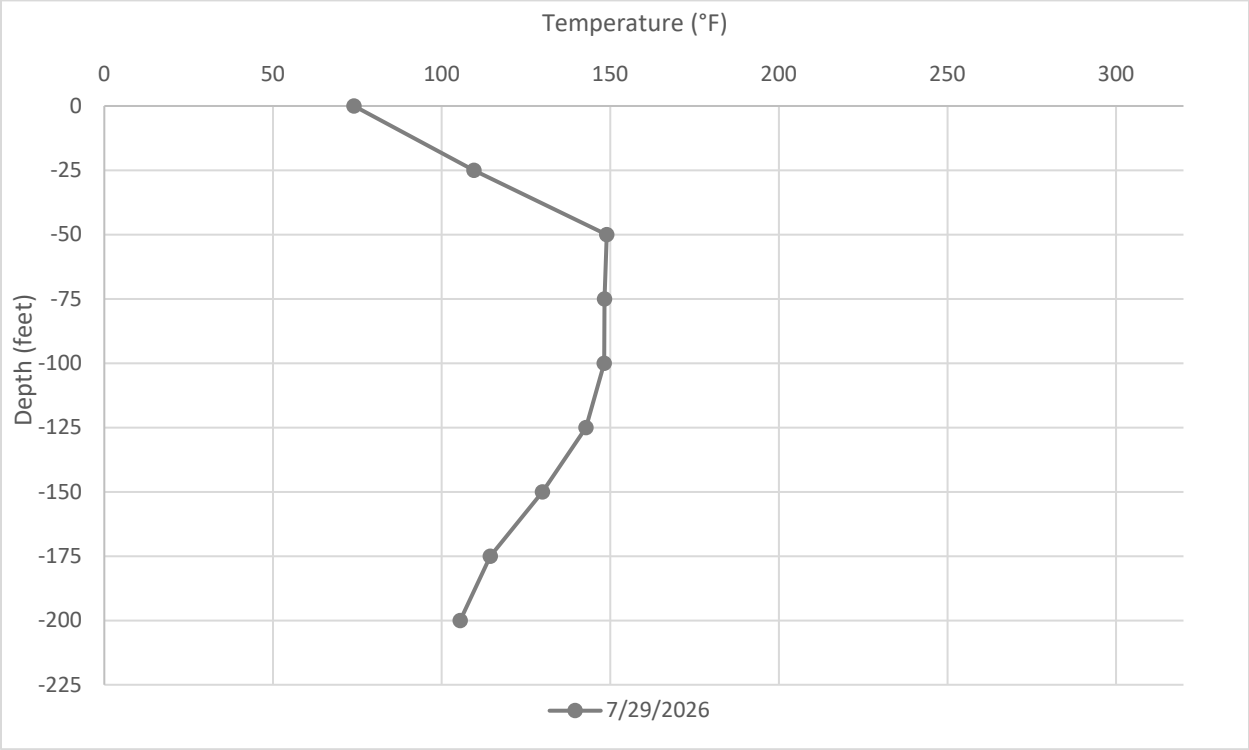


Figure B - 22 Average Temperatures Recorded by TP-9 on July 29, 2026





Appendix C

Daily Wellhead Temperature Averages

Solid Waste Permit 588 Daily Wellhead Temperature Averages

The data provided in this report represent initial readings provided by field instrumentation without Validation, analysis, quality assurance review, or context based on operating conditions. This report is subject to revision following quality assurance review and an analysis of operating conditions. SCS will continue to provide a supplemental report with additional information and further analysis on a monthly basis at a minimum.

SCS ENGINEERS

07222143.00 | August 4, 2026

274 Granite Run Drive
Lancaster, PA 17601
717-550-6330

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 32R
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	126.6	124.9	127.6
Jul 2	125.6	124.1	126.9
Jul 3	126.0	124.4	127.7
Jul 4	126.0	121.7	127.6
Jul 5	125.6	122.4	127.3
Jul 6	123.0	114.6	127.1
Jul 7	112.0	67.2	120.4
Jul 8	117.3	115.7	119.9
Jul 9	116.3	114.9	119.4
Jul 10	115.3	114.3	117.0
Jul 11	114.5	110.2	117.2
Jul 12	113.2	111.4	116.4
Jul 13	111.9	110.3	114.2
Jul 14	113.3	109.3	117.0
Jul 15	113.8	110.3	117.0
Jul 16	114.4	111.5	117.1
Jul 17	114.9	111.6	118.3
Jul 18	113.9	111.2	116.8
Jul 19	113.4	110.8	116.3
Jul 20	114.1	111.2	117.0
Jul 21	113.8	110.8	116.3
Jul 22	111.5	108.0	112.8
Jul 23	105.3	66.0	115.5
Jul 24	92.2	66.4	112.8
Jul 25	109.7	107.9	112.0
Jul 26	109.8	106.9	113.0
Jul 27	110.4	107.9	114.0
Jul 28	109.4	107.9	112.1
Jul 29	109.4	106.6	112.4
Jul 30	108.9	105.3	112.6
Summary	114.4	92.2	126.6

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 33B
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	90.0	71.2	112.0
Jul 2	89.4	69.1	110.9
Jul 3	91.0	70.8	112.3
Jul 4	87.5	69.8	106.0
Jul 5	79.5	66.3	100.3
Jul 6	80.1	68.7	106.3
Jul 7	81.1	68.2	98.4
Jul 8	83.8	70.8	103.0
Jul 9	81.3	69.9	99.1
Jul 10	76.4	70.4	91.8
Jul 11	77.0	69.8	90.4
Jul 12	73.5	69.3	84.7
Jul 13	74.2	69.4	87.5
Jul 14	83.0	66.0	103.4
Jul 15	85.2	64.2	107.7
Jul 16	86.0	67.4	107.2
Jul 17	87.8	69.4	107.5
Jul 18	81.6	70.0	98.5
Jul 19	80.3	71.3	99.6
Jul 20	84.3	71.5	101.2
Jul 21	83.3	73.9	101.2
Jul 22	75.8	72.2	84.7
Jul 23	78.7	67.6	99.0
Jul 24	75.4	66.2	88.2
Jul 25	76.6	68.6	92.1
Jul 26	79.7	68.8	97.0
Jul 27	83.6	70.9	102.1
Jul 28	78.0	72.1	92.1
Jul 29	79.6	69.1	92.4
Jul 30	77.2	60.6	96.2
Summary	81.4	73.5	91.0

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 36A

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	89.9	73.9	114.7
Jul 2	89.8	72.1	114.5
Jul 3	91.4	73.4	115.1
Jul 4	87.8	70.0	109.0
Jul 5	80.2	68.8	96.5
Jul 6	81.7	71.9	109.2
Jul 7	82.3	71.1	98.6
Jul 8	83.2	73.3	102.1
Jul 9	81.9	73.0	97.5
Jul 10	77.3	73.0	86.5
Jul 11	78.1	71.2	89.6
Jul 12	75.1	71.6	84.2
Jul 13	76.0	71.7	86.4
Jul 14	83.0	69.0	105.3
Jul 15	86.0	68.0	109.8
Jul 16	86.1	69.8	111.3
Jul 17	88.0	72.0	113.7
Jul 18	81.9	72.8	98.7
Jul 19	81.0	73.8	98.5
Jul 20	84.4	74.3	103.3
Jul 21	83.5	76.1	99.2
Jul 22	77.0	73.4	82.0
Jul 23	79.7	70.4	94.8
Jul 24	76.2	69.9	85.5
Jul 25	77.2	71.4	89.3
Jul 26	80.2	71.1	95.7
Jul 27	84.7	73.5	100.6
Jul 28	78.7	74.2	89.1
Jul 29	80.4	70.1	93.9
Jul 30	78.4	64.4	98.1
Summary	82.0	75.1	91.4

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 38

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	110.6	107.0	114.0
Jul 2	110.4	107.7	113.5
Jul 3	110.6	107.7	113.9
Jul 4	109.9	104.5	112.6
Jul 5	104.4	83.6	110.3
Jul 6	107.4	104.9	111.8
Jul 7	105.9	82.0	110.6
Jul 8	107.9	106.3	109.9
Jul 9	106.7	105.5	108.8
Jul 10	105.6	104.7	106.9
Jul 11	105.4	102.8	107.5
Jul 12	104.4	103.1	105.8
Jul 13	102.8	99.8	104.3
Jul 14	103.6	101.9	105.9
Jul 15	101.7	80.0	106.5
Jul 16	91.4	74.8	105.2
Jul 17	104.5	101.9	107.5
Jul 18	104.0	101.3	106.7
Jul 19	104.0	102.6	106.1
Jul 20	104.6	103.2	107.1
Jul 21	104.7	103.4	106.8
Jul 22	103.4	101.5	104.6
Jul 23	100.6	75.4	106.2
Jul 24	90.6	73.4	104.7
Jul 25	103.1	102.0	105.1
Jul 26	103.6	101.6	105.8
Jul 27	104.3	102.8	106.3
Jul 28	103.9	102.8	105.6
Jul 29	103.5	102.0	105.5
Jul 30	103.5	101.3	106.3
Summary	104.2	90.6	110.6

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 42

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	133.6	132.0	135.0
Jul 2	134.4	133.2	135.6
Jul 3	135.0	133.9	136.2
Jul 4	135.2	134.0	136.3
Jul 5	132.9	131.3	134.8
Jul 6	133.0	131.2	135.1
Jul 7	128.5	82.7	135.0
Jul 8	134.5	133.8	135.5
Jul 9	134.5	133.9	135.6
Jul 10	134.4	134.0	135.3
Jul 11	134.5	133.6	135.2
Jul 12	134.2	133.7	134.7
Jul 13	134.0	132.3	135.0
Jul 14	134.4	133.4	135.5
Jul 15	134.4	133.3	135.3
Jul 16	134.8	134.0	135.9
Jul 17	134.9	134.0	136.0
Jul 18	134.5	134.0	135.3
Jul 19	134.4	133.8	135.3
Jul 20	134.8	134.0	135.7
Jul 21	134.9	134.4	135.5
Jul 22	134.3	133.4	134.8
Jul 23	128.2	86.6	135.2
Jul 24	117.1	90.5	134.1
Jul 25	133.7	133.1	134.4
Jul 26	134.3	133.6	135.2
Jul 27	135.2	134.0	136.4
Jul 28	135.5	135.2	136.2
Jul 29	135.8	135.2	136.6
Jul 30	136.1	135.2	137.2
Summary	133.5	117.1	136.1

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 47
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	86.6	70.0	110.3
Jul 2	85.8	66.8	107.1
Jul 3	88.6	69.9	110.4
Jul 4	85.1	71.7	103.7
Jul 5	79.1	66.8	96.7
Jul 6	80.8	68.2	104.2
Jul 7	79.6	67.7	98.1
Jul 8	81.3	69.4	100.3
Jul 9	79.6	69.8	97.5
Jul 10	74.6	68.6	88.7
Jul 11	75.3	69.0	88.1
Jul 12	72.1	68.9	84.2
Jul 13	72.2	68.1	82.3
Jul 14	77.6	64.2	95.9
Jul 15	80.6	62.3	106.2
Jul 16	82.1	65.2	105.4
Jul 17	84.8	67.4	107.1
Jul 18	79.9	69.1	98.2
Jul 19	78.9	69.5	97.4
Jul 20	82.7	70.8	101.5
Jul 21	81.9	72.4	98.8
Jul 22	74.8	72.0	81.8
Jul 23	76.4	66.6	97.8
Jul 24	72.7	66.1	83.9
Jul 25	74.7	67.8	91.2
Jul 26	77.5	68.1	93.9
Jul 27	80.3	69.1	96.9
Jul 28	80.1	70.6	91.7
Jul 29	85.6	76.1	93.2
Jul 30	81.2	70.2	93.9
Summary	79.8	72.1	88.6

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 48

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	87.5	69.8	108.0
Jul 2	86.8	66.7	109.0
Jul 3	88.7	68.8	110.3
Jul 4	85.7	70.2	105.3
Jul 5	77.9	66.0	99.2
Jul 6	78.7	67.5	104.1
Jul 7	80.3	67.6	98.8
Jul 8	81.3	69.4	100.4
Jul 9	78.7	68.6	94.7
Jul 10	74.5	68.2	86.6
Jul 11	75.5	68.9	87.8
Jul 12	72.6	68.6	85.9
Jul 13	72.7	67.0	86.0
Jul 14	79.5	63.8	99.3
Jul 15	81.8	62.1	104.0
Jul 16	83.3	65.4	103.8
Jul 17	85.4	67.1	107.3
Jul 18	79.9	69.0	97.0
Jul 19	78.4	69.0	94.6
Jul 20	81.9	70.6	99.0
Jul 21	81.3	72.0	97.5
Jul 22	74.5	71.8	81.6
Jul 23	76.9	65.5	95.6
Jul 24	73.4	65.8	85.7
Jul 25	74.3	67.7	86.9
Jul 26	77.4	67.8	93.5
Jul 27	81.0	68.9	99.3
Jul 28	75.8	70.2	90.4
Jul 29	77.6	64.0	94.4
Jul 30	74.2	57.3	93.9
Summary	79.3	72.6	88.7

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 49

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	156.4	155.8	157.7
Jul 2	156.5	155.5	157.8
Jul 3	157.0	155.9	158.2
Jul 4	157.1	153.2	158.5
Jul 5	151.5	145.8	159.4
Jul 6	146.0	144.8	148.0
Jul 7	145.1	119.1	150.7
Jul 8	148.9	147.8	150.1
Jul 9	150.1	149.4	151.4
Jul 10	151.3	150.5	152.3
Jul 11	152.1	150.5	152.8
Jul 12	152.0	151.5	152.5
Jul 13	150.0	148.1	151.5
Jul 14	149.9	148.9	151.3
Jul 15	149.7	135.6	152.7
Jul 16	148.4	136.7	160.5
Jul 17	153.2	152.5	154.4
Jul 18	153.0	151.1	154.2
Jul 19	153.3	152.4	154.0
Jul 20	153.6	152.6	154.5
Jul 21	153.8	153.5	154.2
Jul 22	153.3	151.3	154.1
Jul 23	145.4	109.7	152.9
Jul 24	141.6	124.6	154.7
Jul 25	149.8	149.0	150.6
Jul 26	151.3	150.5	152.2
Jul 27	152.3	151.5	153.3
Jul 28	152.4	152.0	152.9
Jul 29	152.8	152.3	153.4
Jul 30	153.0	152.4	154.0
Summary	151.4	141.6	157.1

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 50
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	102.2	99.0	105.0
Jul 2	101.8	99.0	104.6
Jul 3	101.7	98.9	104.6
Jul 4	101.1	97.0	103.7
Jul 5	96.9	79.6	102.7
Jul 6	100.0	98.1	103.5
Jul 7	98.1	78.8	103.0
Jul 8	100.4	98.9	102.8
Jul 9	99.5	97.9	101.8
Jul 10	98.7	97.0	101.0
Jul 11	99.0	97.1	100.9
Jul 12	98.8	97.9	100.5
Jul 13	98.9	97.7	101.0
Jul 14	99.7	97.5	102.0
Jul 15	98.8	82.5	102.8
Jul 16	90.9	76.7	104.5
Jul 17	100.9	98.4	103.3
Jul 18	99.7	98.1	101.9
Jul 19	99.5	98.4	102.0
Jul 20	100.0	98.3	102.1
Jul 21	99.5	97.5	103.2
Jul 22	98.6	97.4	100.7
Jul 23	97.2	77.4	102.2
Jul 24	90.8	76.3	102.8
Jul 25	99.2	98.4	100.5
Jul 26	99.5	97.9	101.2
Jul 27	100.0	98.7	101.8
Jul 28	99.1	97.5	101.0
Jul 29	99.1	97.0	101.0
Jul 30	99.0	96.8	101.3
Summary	98.9	90.8	102.2

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 51
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	85.1	69.5	103.2
Jul 2	84.7	66.1	105.1
Jul 3	86.3	68.6	106.4
Jul 4	82.9	66.5	102.4
Jul 5	76.5	65.3	95.0
Jul 6	76.9	67.5	98.3
Jul 7	78.0	67.3	97.8
Jul 8	80.6	68.8	95.8
Jul 9	77.2	68.3	90.2
Jul 10	74.1	68.2	82.4
Jul 11	74.3	68.5	86.4
Jul 12	71.3	68.3	80.5
Jul 13	71.9	67.7	82.6
Jul 14	77.3	63.8	96.1
Jul 15	80.3	62.1	101.4
Jul 16	81.7	65.0	103.5
Jul 17	84.1	66.9	103.1
Jul 18	79.1	68.5	98.9
Jul 19	77.6	69.1	91.7
Jul 20	81.2	70.2	99.3
Jul 21	81.2	71.8	96.7
Jul 22	74.4	71.2	81.3
Jul 23	75.8	65.9	92.7
Jul 24	72.5	65.2	86.2
Jul 25	73.9	67.0	88.3
Jul 26	77.0	67.2	93.5
Jul 27	79.6	68.7	97.2
Jul 28	75.2	69.4	89.8
Jul 29	74.3	63.7	85.1
Jul 30	71.0	57.2	86.1
Summary	77.9	71.0	86.3

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 52
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	158.5	73.3	185.0
Jul 2	166.8	98.8	183.8
Jul 3	166.9	103.1	183.0
Jul 4	176.4	171.7	178.3
Jul 5	142.6	66.7	179.4
Jul 6	159.4	67.8	180.9
Jul 7	120.5	67.6	178.5
Jul 8	112.5	69.3	182.4
Jul 9	177.1	148.1	180.8
Jul 10	114.7	71.1	181.5
Jul 11	74.2	68.7	84.0
Jul 12	75.8	68.8	86.4
Jul 13	77.2	68.2	88.4
Jul 14	76.7	63.9	91.6
Jul 15	79.5	62.4	97.5
Jul 16	80.9	65.1	99.2
Jul 17	83.8	67.3	101.5
Jul 18	79.3	68.8	93.8
Jul 19	77.5	69.3	91.1
Jul 20	80.6	70.3	94.4
Jul 21	80.4	72.2	92.9
Jul 22	74.1	71.1	80.1
Jul 23	75.6	66.6	90.9
Jul 24	76.3	65.7	150.4
Jul 25	73.4	67.4	84.3
Jul 26	76.1	67.6	90.0
Jul 27	79.2	69.1	95.1
Jul 28	117.8	70.3	184.9
Jul 29	176.8	174.2	179.8
Jul 30	170.7	132.0	173.7
Summary	109.4	73.4	177.1

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 53

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	172.3	168.6	176.8
Jul 2	172.6	169.1	176.6
Jul 3	173.7	170.3	177.6
Jul 4	173.2	164.2	176.7
Jul 5	170.0	161.0	175.1
Jul 6	172.1	162.7	177.3
Jul 7	172.4	169.3	176.0
Jul 8	174.1	171.2	179.4
Jul 9	174.5	171.8	177.6
Jul 10	173.7	168.8	176.3
Jul 11	173.4	166.6	176.0
Jul 12	170.9	164.4	174.1
Jul 13	171.2	168.9	172.9
Jul 14	173.7	170.7	177.1
Jul 15	175.5	172.9	179.4
Jul 16	176.3	174.0	179.7
Jul 17	176.7	173.8	180.1
Jul 18	176.2	171.4	179.9
Jul 19	176.3	170.5	179.3
Jul 20	176.8	174.9	179.8
Jul 21	176.9	174.1	180.0
Jul 22	175.0	167.8	177.3
Jul 23	173.8	169.8	177.2
Jul 24	173.3	168.6	176.3
Jul 25	174.8	172.6	177.3
Jul 26	176.5	173.4	179.1
Jul 27	177.2	175.7	180.0
Jul 28	179.6	176.1	186.6
Jul 29	180.5	179.5	182.2
Jul 30	179.8	178.0	181.9
Summary	174.8	170.0	180.5

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 54

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	143.3	74.8	194.4
Jul 2	149.2	67.1	191.4
Jul 3	166.0	156.1	175.4
Jul 4	150.4	116.8	156.0
Jul 5	146.6	118.0	187.4
Jul 6	140.4	119.7	172.7
Jul 7	152.6	117.8	187.7
Jul 8	159.9	105.5	192.9
Jul 9	164.1	139.2	184.3
Jul 10	161.9	133.9	183.0
Jul 11	136.2	117.3	150.4
Jul 12	112.8	93.4	125.8
Jul 13	133.0	104.9	183.4
Jul 14	179.6	121.4	186.8
Jul 15	164.9	144.8	188.1
Jul 16	133.4	113.3	143.4
Jul 17	158.2	105.3	187.8
Jul 18	188.5	184.0	189.9
Jul 19	189.4	188.2	190.3
Jul 20	189.9	189.0	190.6
Jul 21	189.9	189.0	190.5
Jul 22	189.2	186.8	190.0
Jul 23	189.4	187.9	190.5
Jul 24	189.1	188.1	190.0
Jul 25	189.2	188.8	189.6
Jul 26	183.1	161.8	190.1
Jul 27	189.9	189.0	190.7
Jul 28	188.8	186.9	189.9
Jul 29	179.0	157.4	187.6
Jul 30	185.8	174.8	187.7
Summary	166.4	112.8	189.9

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 55

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	192.7	190.9	194.4
Jul 2	189.2	181.2	192.0
Jul 3	179.9	177.2	183.7
Jul 4	176.0	152.6	180.5
Jul 5	175.6	140.3	187.7
Jul 6	179.2	158.4	191.1
Jul 7	181.0	167.0	191.4
Jul 8	173.4	164.8	177.8
Jul 9	171.5	161.1	184.2
Jul 10	178.1	151.3	190.3
Jul 11	170.9	161.9	175.8
Jul 12	123.0	84.1	170.1
Jul 13	161.2	105.0	187.5
Jul 14	171.8	151.6	188.0
Jul 15	161.9	126.2	186.8
Jul 16	147.3	109.2	188.4
Jul 17	176.7	145.2	190.4
Jul 18	149.7	114.3	157.9
Jul 19	139.8	126.8	148.5
Jul 20	154.0	131.5	183.0
Jul 21	116.6	80.9	173.6
Jul 22	145.8	114.4	177.5
Jul 23	136.7	66.7	172.1
Jul 24	135.0	65.4	181.9
Jul 25	75.2	68.0	86.2
Jul 26	88.7	71.9	108.2
Jul 27	104.3	87.9	126.3
Jul 28	132.7	79.0	174.1
Jul 29	160.5	156.5	165.5
Jul 30	155.9	153.3	157.3
Summary	153.5	75.2	192.7

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 56

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	179.0	26.9	185.9
Jul 2	185.1	184.8	185.6
Jul 3	184.9	184.6	185.4
Jul 4	184.7	182.5	185.2
Jul 5	184.5	182.5	185.9
Jul 6	183.9	182.6	184.5
Jul 7	183.9	183.2	185.5
Jul 8	180.2	110.5	183.9
Jul 9	183.1	182.7	183.6
Jul 10	183.1	181.8	183.4
Jul 11	182.8	181.6	183.2
Jul 12	182.5	181.8	182.8
Jul 13	182.1	181.6	182.5
Jul 14	179.6	121.4	182.7
Jul 15	182.1	181.1	183.5
Jul 16	184.4	182.6	186.4
Jul 17	182.4	181.9	183.1
Jul 18	181.8	181.0	182.4
Jul 19	181.5	181.0	182.1
Jul 20	181.5	181.1	182.3
Jul 21	181.5	181.1	182.1
Jul 22	180.8	179.9	181.4
Jul 23	179.8	166.5	180.9
Jul 24	181.7	180.1	183.5
Jul 25	180.8	180.1	181.1
Jul 26	180.6	180.2	181.1
Jul 27	180.6	180.2	181.2
Jul 28	180.5	180.2	180.8
Jul 29	180.4	180.1	180.9
Jul 30	180.2	179.7	180.9
Summary	182.0	179.0	185.1

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 57
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	100.6	85.5	119.8
Jul 2	100.7	84.3	118.9
Jul 3	101.8	85.3	120.8
Jul 4	99.0	76.2	114.2
Jul 5	88.9	72.7	106.2
Jul 6	91.8	82.2	114.8
Jul 7	92.2	74.1	106.7
Jul 8	94.6	84.4	110.4
Jul 9	91.4	83.0	106.4
Jul 10	86.4	81.1	94.7
Jul 11	86.0	77.2	98.3
Jul 12	83.6	78.3	95.3
Jul 13	83.3	80.1	93.1
Jul 14	89.2	77.7	105.4
Jul 15	90.5	75.4	110.9
Jul 16	89.4	70.6	111.5
Jul 17	95.1	79.9	113.1
Jul 18	90.8	79.3	105.3
Jul 19	89.6	82.5	105.1
Jul 20	92.4	83.3	108.1
Jul 21	92.4	84.6	106.9
Jul 22	85.8	78.4	90.9
Jul 23	86.1	70.9	104.5
Jul 24	81.3	70.8	96.3
Jul 25	86.5	79.1	99.1
Jul 26	89.1	77.8	102.0
Jul 27	91.4	82.5	106.0
Jul 28	87.9	81.6	99.0
Jul 29	88.1	75.5	102.4
Jul 30	84.3	68.8	103.1
Summary	90.3	81.3	101.8

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 58

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	102.5	86.3	108.6
Jul 2	101.0	80.5	113.9
Jul 3	107.3	39.9	111.9
Jul 4	109.4	106.3	111.0
Jul 5	99.9	67.9	109.2
Jul 6	101.3	69.6	107.6
Jul 7	96.5	78.4	106.5
Jul 8	93.3	78.5	111.5
Jul 9	104.7	92.8	106.6
Jul 10	101.9	99.5	103.8
Jul 11	99.2	96.2	101.4
Jul 12	82.3	69.8	97.5
Jul 13	73.8	69.0	85.6
Jul 14	89.9	65.6	146.6
Jul 15	95.5	71.1	171.0
Jul 16	94.1	66.0	161.5
Jul 17	98.5	78.4	121.5
Jul 18	81.4	69.1	103.2
Jul 19	79.2	71.2	95.7
Jul 20	91.1	70.0	144.8
Jul 21	88.6	74.6	146.1
Jul 22	76.6	71.6	84.5
Jul 23	79.9	67.3	99.8
Jul 24	76.4	66.2	89.9
Jul 25	75.3	68.1	85.5
Jul 26	76.2	67.6	94.0
Jul 27	80.2	68.8	103.4
Jul 28	93.1	70.1	120.4
Jul 29	118.8	116.8	120.1
Jul 30	115.6	113.9	116.5
Summary	92.8	73.8	118.8

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 59

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	129.8	122.5	133.0
Jul 2	121.4	115.4	132.4
Jul 3	115.4	113.5	117.1
Jul 4	110.6	40.8	115.4
Jul 5	116.9	91.0	125.7
Jul 6	127.0	123.7	131.0
Jul 7	126.8	88.2	134.4
Jul 8	131.4	129.8	133.5
Jul 9	132.4	126.8	134.4
Jul 10	134.3	132.9	136.1
Jul 11	121.6	114.6	135.4
Jul 12	113.7	112.6	114.7
Jul 13	119.6	112.3	125.3
Jul 14	124.7	37.2	131.2
Jul 15	126.7	91.9	134.0
Jul 16	99.8	74.8	125.6
Jul 17	124.6	115.2	132.0
Jul 18	130.8	127.2	133.2
Jul 19	132.9	131.9	134.6
Jul 20	128.9	117.9	135.3
Jul 21	122.0	115.6	130.8
Jul 22	123.8	116.1	131.2
Jul 23	118.7	84.1	129.8
Jul 24	103.2	73.9	129.1
Jul 25	114.5	112.8	116.2
Jul 26	113.8	111.0	122.5
Jul 27	119.4	113.4	125.9
Jul 28	115.4	112.3	123.4
Jul 29	117.4	112.6	126.7
Jul 30	115.0	111.3	124.0
Summary	121.1	99.8	134.3

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 60
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	88.1	74.9	104.1
Jul 2	87.4	71.9	104.8
Jul 3	88.8	73.7	105.4
Jul 4	86.6	70.1	100.4
Jul 5	79.3	68.7	93.1
Jul 6	80.3	72.0	99.9
Jul 7	80.7	71.2	93.4
Jul 8	81.9	72.7	96.4
Jul 9	79.9	71.5	92.8
Jul 10	76.4	71.7	86.3
Jul 11	76.5	70.5	86.8
Jul 12	73.9	70.6	83.8
Jul 13	74.2	70.4	83.2
Jul 14	78.5	66.5	92.4
Jul 15	80.6	64.5	98.7
Jul 16	82.0	67.2	99.5
Jul 17	84.2	69.1	102.4
Jul 18	79.7	70.3	93.7
Jul 19	78.5	70.8	92.1
Jul 20	81.8	71.9	96.3
Jul 21	81.5	73.9	94.7
Jul 22	75.5	72.2	81.1
Jul 23	77.2	68.4	91.3
Jul 24	73.3	67.2	83.0
Jul 25	74.2	68.8	84.5
Jul 26	76.9	68.5	89.7
Jul 27	79.9	70.3	95.3
Jul 28	76.0	71.3	88.0
Jul 29	76.6	65.8	90.8
Jul 30	72.7	58.5	90.0
Summary	79.4	72.7	88.8

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 61

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	142.0	139.0	146.8
Jul 2	139.5	137.4	141.3
Jul 3	138.7	136.6	140.5
Jul 4	138.4	134.8	140.7
Jul 5	132.0	108.7	142.7
Jul 6	134.2	131.4	137.2
Jul 7	129.3	100.2	143.9
Jul 8	130.8	128.4	133.1
Jul 9	129.0	127.8	130.3
Jul 10	127.4	125.9	129.1
Jul 11	123.9	120.2	125.9
Jul 12	117.6	113.9	120.1
Jul 13	113.8	112.2	118.9
Jul 14	112.9	111.2	115.0
Jul 15	110.0	83.9	115.4
Jul 16	104.1	85.5	127.4
Jul 17	116.0	113.5	119.1
Jul 18	113.0	110.1	115.9
Jul 19	109.1	107.7	110.7
Jul 20	109.8	108.0	112.2
Jul 21	110.6	109.4	112.4
Jul 22	109.9	108.1	111.5
Jul 23	106.5	76.4	112.3
Jul 24	101.0	76.9	118.4
Jul 25	113.1	111.9	114.1
Jul 26	114.5	112.0	116.4
Jul 27	116.6	113.2	119.7
Jul 28	119.1	116.8	121.5
Jul 29	122.3	119.8	124.4
Jul 30	124.5	122.2	126.5
Summary	120.3	101.0	142.0

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 62

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	109.0	106.3	112.2
Jul 2	107.9	104.1	112.2
Jul 3	108.3	104.1	112.6
Jul 4	107.6	100.6	111.6
Jul 5	102.3	98.6	106.5
Jul 6	101.4	94.7	107.4
Jul 7	97.6	70.9	106.4
Jul 8	101.3	97.8	106.3
Jul 9	100.6	96.3	105.6
Jul 10	99.1	96.5	102.8
Jul 11	98.5	92.8	102.6
Jul 12	97.2	94.6	102.0
Jul 13	98.5	95.7	102.7
Jul 14	99.9	94.5	105.9
Jul 15	100.2	93.2	106.2
Jul 16	101.2	96.5	108.1
Jul 17	101.2	95.3	107.6
Jul 18	99.3	92.8	105.1
Jul 19	99.1	96.0	105.0
Jul 20	100.7	96.1	105.9
Jul 21	100.5	97.2	108.4
Jul 22	96.5	93.3	101.0
Jul 23	94.1	68.9	106.2
Jul 24	84.5	67.9	101.6
Jul 25	95.3	93.0	100.2
Jul 26	96.5	92.0	102.0
Jul 27	98.9	94.4	103.8
Jul 28	97.4	95.3	101.3
Jul 29	97.9	92.7	103.6
Jul 30	96.6	90.8	102.6
Summary	99.6	84.5	109.0

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 63
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	85.0	69.5	103.2
Jul 2	84.2	66.5	104.4
Jul 3	86.2	68.4	106.6
Jul 4	83.0	66.5	99.0
Jul 5	76.9	65.4	95.8
Jul 6	77.1	67.0	98.6
Jul 7	78.5	67.0	95.0
Jul 8	80.3	69.1	97.3
Jul 9	78.1	68.2	91.9
Jul 10	74.0	68.2	86.8
Jul 11	74.5	68.5	85.1
Jul 12	71.5	68.2	80.6
Jul 13	72.5	67.0	87.6
Jul 14	78.9	63.4	97.3
Jul 15	79.6	61.7	98.8
Jul 16	80.8	64.9	101.2
Jul 17	83.3	66.9	102.5
Jul 18	78.9	68.4	95.5
Jul 19	77.4	68.7	91.7
Jul 20	81.2	69.9	97.3
Jul 21	80.3	71.9	94.9
Jul 22	74.0	71.1	81.9
Jul 23	76.5	65.4	93.1
Jul 24	72.9	64.8	86.4
Jul 25	73.7	67.1	87.6
Jul 26	76.5	67.5	94.0
Jul 27	79.7	68.9	97.5
Jul 28	75.2	69.7	89.0
Jul 29	76.2	63.8	90.8
Jul 30	72.0	57.4	90.2
Summary	78.0	71.5	86.2

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 64

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	86.4	69.1	109.2
Jul 2	85.6	66.1	110.2
Jul 3	87.9	68.3	111.0
Jul 4	83.7	66.6	103.6
Jul 5	78.2	65.5	99.3
Jul 6	78.4	66.8	106.9
Jul 7	79.1	66.7	102.2
Jul 8	81.3	68.8	101.2
Jul 9	78.6	67.9	95.7
Jul 10	74.2	68.0	88.0
Jul 11	75.2	68.5	90.3
Jul 12	71.6	68.2	82.3
Jul 13	72.4	66.5	89.8
Jul 14	79.6	63.2	103.3
Jul 15	81.7	61.5	106.9
Jul 16	81.7	64.5	106.1
Jul 17	84.4	66.8	108.8
Jul 18	79.6	68.4	99.3
Jul 19	77.8	69.3	99.2
Jul 20	81.8	70.1	103.1
Jul 21	81.2	71.7	98.9
Jul 22	74.3	71.3	83.8
Jul 23	77.4	65.1	98.4
Jul 24	73.5	64.8	90.1
Jul 25	74.5	67.1	91.9
Jul 26	77.2	67.5	97.4
Jul 27	80.7	68.6	103.0
Jul 28	75.4	69.4	89.2
Jul 29	77.5	63.2	95.5
Jul 30	73.0	56.6	95.6
Summary	78.8	71.6	87.9

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 65

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	134.3	39.2	140.0
Jul 2	138.5	137.3	140.1
Jul 3	138.6	137.2	140.1
Jul 4	138.3	134.1	140.0
Jul 5	129.3	37.0	140.1
Jul 6	136.8	130.8	138.9
Jul 7	128.7	72.9	137.2
Jul 8	135.6	134.2	137.0
Jul 9	134.6	133.5	136.0
Jul 10	133.1	130.7	134.2
Jul 11	129.8	124.0	132.3
Jul 12	121.7	116.8	126.9
Jul 13	114.7	111.7	120.0
Jul 14	117.0	111.0	124.1
Jul 15	115.9	74.2	125.9
Jul 16	97.6	66.3	131.2
Jul 17	131.8	128.3	136.3
Jul 18	124.0	119.2	127.3
Jul 19	119.6	114.7	122.3
Jul 20	121.6	118.0	125.3
Jul 21	123.6	121.6	126.2
Jul 22	120.3	112.6	125.9
Jul 23	112.3	66.3	122.8
Jul 24	103.7	67.3	131.4
Jul 25	126.2	123.1	129.8
Jul 26	121.6	118.3	124.4
Jul 27	120.6	117.8	124.2
Jul 28	117.7	114.0	120.3
Jul 29	114.4	109.7	120.3
Jul 30	112.1	106.4	121.4
Summary	123.8	97.6	138.6

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 66

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	195.3	189.6	198.9
Jul 2	195.0	189.7	198.6
Jul 3	188.8	187.3	190.1
Jul 4	185.5	174.9	187.6
Jul 5	181.1	170.0	184.1
Jul 6	191.7	177.9	198.0
Jul 7	197.7	197.0	198.2
Jul 8	193.6	187.7	198.0
Jul 9	188.9	185.4	197.0
Jul 10	188.1	183.0	197.0
Jul 11	182.5	176.8	185.3
Jul 12	178.8	175.0	182.2
Jul 13	183.9	177.2	196.8
Jul 14	191.4	178.4	197.8
Jul 15	195.6	187.9	198.3
Jul 16	191.1	185.1	198.1
Jul 17	193.8	185.7	198.2
Jul 18	182.8	179.2	185.4
Jul 19	176.9	172.6	179.9
Jul 20	187.3	172.9	197.9
Jul 21	189.7	183.0	197.0
Jul 22	185.2	180.0	196.3
Jul 23	184.8	176.4	197.0
Jul 24	184.4	172.0	197.0
Jul 25	181.5	175.1	196.2
Jul 26	173.1	169.8	176.0
Jul 27	169.4	166.2	172.2
Jul 28	170.7	158.9	182.4
Jul 29	175.2	173.4	176.9
Jul 30	176.7	163.8	186.0
Summary	185.4	169.4	197.7

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 67
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	200.9	200.8	201.1
Jul 2	200.9	200.7	201.1
Jul 3	200.8	200.6	201.0
Jul 4	200.7	200.0	200.8
Jul 5	199.5	196.2	201.1
Jul 6	200.7	200.3	201.1
Jul 7	201.0	200.8	201.2
Jul 8	201.0	200.7	201.2
Jul 9	198.0	195.3	200.8
Jul 10	194.4	193.4	195.1
Jul 11	192.9	191.0	193.9
Jul 12	192.0	190.2	192.9
Jul 13	190.9	189.5	192.1
Jul 14	181.7	97.7	200.0
Jul 15	199.4	195.4	200.4
Jul 16	196.6	193.2	200.5
Jul 17	200.7	200.5	200.9
Jul 18	200.8	200.7	201.0
Jul 19	200.8	200.7	200.9
Jul 20	200.9	200.7	200.9
Jul 21	200.9	200.8	201.0
Jul 22	200.8	200.6	200.9
Jul 23	201.0	200.8	201.2
Jul 24	201.1	201.0	201.2
Jul 25	201.2	201.0	201.3
Jul 26	196.9	194.4	201.0
Jul 27	194.3	193.5	195.1
Jul 28	193.0	191.7	194.4
Jul 29	190.6	189.6	191.5
Jul 30	189.6	187.2	190.2
Summary	197.5	181.7	201.2

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 68

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	161.9	106.8	183.1
Jul 2	159.8	105.9	173.3
Jul 3	160.7	124.7	169.2
Jul 4	162.4	157.3	164.9
Jul 5	159.4	103.5	180.3
Jul 6	170.4	116.7	185.3
Jul 7	164.0	129.0	184.1
Jul 8	150.4	113.6	182.5
Jul 9	175.7	171.6	184.2
Jul 10	153.9	111.9	180.0
Jul 11	91.5	70.2	110.8
Jul 12	72.1	68.6	81.1
Jul 13	88.2	68.2	130.7
Jul 14	112.6	67.9	184.7
Jul 15	148.2	99.1	182.8
Jul 16	130.7	75.8	167.5
Jul 17	93.8	66.7	122.8
Jul 18	80.5	70.1	100.1
Jul 19	77.5	69.1	92.5
Jul 20	96.5	70.3	140.1
Jul 21	93.5	78.5	127.7
Jul 22	84.7	77.0	117.8
Jul 23	88.4	70.0	110.2
Jul 24	100.4	67.9	180.3
Jul 25	73.6	67.3	86.0
Jul 26	77.2	67.5	92.0
Jul 27	80.3	69.4	98.6
Jul 28	122.7	69.6	182.3
Jul 29	175.7	172.6	180.6
Jul 30	172.1	158.6	178.7
Summary	122.6	72.1	175.7

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 69
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	104.8	95.7	114.6
Jul 2	107.5	100.8	115.3
Jul 3	110.1	103.6	118.1
Jul 4	110.3	102.2	115.6
Jul 5	109.2	103.3	114.4
Jul 6	109.4	105.0	115.2
Jul 7	103.0	68.3	112.7
Jul 8	107.2	104.4	111.6
Jul 9	106.0	103.4	111.6
Jul 10	104.0	101.9	106.9
Jul 11	103.6	99.3	108.0
Jul 12	101.7	100.0	106.7
Jul 13	100.2	98.4	104.5
Jul 14	103.3	97.2	110.3
Jul 15	104.1	97.1	113.0
Jul 16	105.1	98.9	113.9
Jul 17	105.5	98.8	114.4
Jul 18	102.6	97.6	109.8
Jul 19	101.8	98.1	109.4
Jul 20	102.5	97.4	110.8
Jul 21	102.1	97.6	109.1
Jul 22	97.5	93.7	101.2
Jul 23	95.2	67.0	108.6
Jul 24	83.2	65.9	101.0
Jul 25	96.6	91.7	104.1
Jul 26	97.8	91.1	106.6
Jul 27	100.5	94.5	110.0
Jul 28	98.5	95.7	104.5
Jul 29	102.8	93.9	111.9
Jul 30	106.7	102.1	113.4
Summary	102.8	83.2	110.3

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 70

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	88.9	73.7	111.1
Jul 2	88.8	72.1	112.1
Jul 3	90.5	74.0	113.3
Jul 4	87.4	73.4	103.6
Jul 5	81.8	69.9	105.8
Jul 6	80.8	69.1	105.0
Jul 7	81.5	67.3	105.7
Jul 8	82.6	69.0	105.5
Jul 9	80.2	67.7	99.0
Jul 10	75.2	68.3	89.2
Jul 11	76.5	68.8	92.8
Jul 12	72.9	68.4	86.1
Jul 13	72.9	66.8	88.3
Jul 14	80.6	63.1	104.8
Jul 15	81.8	61.5	106.2
Jul 16	83.1	64.8	107.7
Jul 17	85.5	66.7	111.2
Jul 18	81.0	68.4	100.8
Jul 19	79.7	68.8	99.6
Jul 20	84.7	70.2	103.0
Jul 21	82.6	71.8	101.6
Jul 22	75.2	72.2	84.4
Jul 23	78.7	65.6	98.1
Jul 24	74.2	64.4	89.1
Jul 25	76.3	67.7	94.4
Jul 26	78.6	68.1	97.6
Jul 27	82.5	69.0	104.2
Jul 28	76.5	69.9	92.7
Jul 29	79.3	62.5	101.1
Jul 30	75.3	57.0	99.4
Summary	80.5	72.9	90.5

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 71

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	139.5	138.5	140.4
Jul 2	139.5	138.7	140.2
Jul 3	139.5	138.8	140.4
Jul 4	139.3	137.3	140.1
Jul 5	138.4	131.8	139.6
Jul 6	138.9	138.2	140.4
Jul 7	135.9	109.5	140.0
Jul 8	139.3	138.9	139.8
Jul 9	139.2	138.8	140.2
Jul 10	139.0	138.6	139.5
Jul 11	138.9	137.7	139.4
Jul 12	139.1	138.2	139.5
Jul 13	139.0	138.4	139.7
Jul 14	139.6	138.6	140.6
Jul 15	139.9	139.2	140.6
Jul 16	140.0	139.5	140.6
Jul 17	140.1	139.4	140.7
Jul 18	139.7	138.9	140.4
Jul 19	139.7	139.3	140.4
Jul 20	140.0	139.4	140.5
Jul 21	139.8	139.6	140.1
Jul 22	139.1	136.4	139.8
Jul 23	133.9	88.2	140.6
Jul 24	127.8	106.3	140.6
Jul 25	140.0	139.5	140.3
Jul 26	140.0	138.7	140.7
Jul 27	140.3	139.9	140.8
Jul 28	140.0	139.5	140.3
Jul 29	139.8	139.6	140.2
Jul 30	139.9	139.4	140.6
Summary	138.8	127.8	140.3

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 72
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	141.2	139.2	143.0
Jul 2	141.2	140.1	142.6
Jul 3	141.4	139.8	142.9
Jul 4	140.8	130.4	142.4
Jul 5	138.2	130.8	140.1
Jul 6	139.7	136.9	142.5
Jul 7	136.2	100.1	141.8
Jul 8	140.2	139.6	141.0
Jul 9	139.6	139.1	140.6
Jul 10	139.0	134.8	140.3
Jul 11	139.0	137.3	139.7
Jul 12	138.9	138.3	140.2
Jul 13	139.0	135.0	140.6
Jul 14	139.6	138.2	141.0
Jul 15	139.8	138.6	141.1
Jul 16	139.6	139.0	140.6
Jul 17	139.6	138.6	140.9
Jul 18	138.8	135.7	139.9
Jul 19	139.0	137.3	140.1
Jul 20	139.4	138.8	140.4
Jul 21	139.3	138.7	140.4
Jul 22	137.7	132.3	139.4
Jul 23	131.9	86.9	140.5
Jul 24	125.4	100.6	139.9
Jul 25	138.2	137.5	139.1
Jul 26	138.5	137.7	139.5
Jul 27	138.9	138.1	140.8
Jul 28	138.8	138.5	139.3
Jul 29	139.1	138.5	140.2
Jul 30	139.5	138.7	141.0
Summary	138.6	125.4	141.4

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 73
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	112.8	111.7	114.2
Jul 2	113.1	112.2	114.5
Jul 3	113.5	112.6	114.8
Jul 4	113.7	112.5	114.9
Jul 5	113.6	112.0	114.7
Jul 6	113.5	111.6	115.1
Jul 7	108.8	76.3	113.9
Jul 8	113.1	112.3	114.3
Jul 9	113.2	112.5	114.4
Jul 10	113.2	112.6	114.1
Jul 11	113.5	112.4	114.3
Jul 12	113.7	113.0	114.6
Jul 13	114.3	113.6	115.4
Jul 14	115.3	114.2	116.7
Jul 15	115.7	114.7	117.0
Jul 16	116.2	115.3	117.4
Jul 17	116.5	115.6	117.7
Jul 18	116.4	115.5	117.3
Jul 19	116.6	116.1	117.7
Jul 20	117.1	116.3	118.0
Jul 21	117.2	116.7	118.2
Jul 22	116.9	116.0	117.3
Jul 23	113.1	78.0	118.3
Jul 24	99.9	73.2	117.4
Jul 25	117.0	116.4	117.9
Jul 26	117.8	117.0	118.6
Jul 27	115.4	111.8	118.1
Jul 28	111.9	111.5	113.3
Jul 29	112.4	111.1	114.3
Jul 30	115.9	110.9	119.3
Summary	114.0	99.9	117.8

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 74

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	126.7	124.4	128.4
Jul 2	125.0	122.7	127.7
Jul 3	124.9	122.2	127.9
Jul 4	124.1	108.3	127.8
Jul 5	122.2	114.1	124.7
Jul 6	122.6	115.4	127.0
Jul 7	117.1	76.8	124.9
Jul 8	122.6	121.2	124.8
Jul 9	121.9	120.5	124.1
Jul 10	121.1	118.6	122.7
Jul 11	119.9	114.2	121.9
Jul 12	119.5	116.6	121.3
Jul 13	119.1	117.0	120.6
Jul 14	119.9	117.3	123.4
Jul 15	120.9	118.5	123.0
Jul 16	120.7	119.6	122.1
Jul 17	120.2	118.4	122.8
Jul 18	119.0	111.6	121.2
Jul 19	119.1	117.2	121.2
Jul 20	119.7	118.3	121.7
Jul 21	119.3	118.0	120.9
Jul 22	117.1	111.8	119.3
Jul 23	111.9	72.0	120.4
Jul 24	99.4	67.2	122.9
Jul 25	118.5	117.4	119.2
Jul 26	118.7	115.9	120.2
Jul 27	119.0	117.9	120.4
Jul 28	118.1	117.2	119.5
Jul 29	117.1	115.9	118.2
Jul 30	116.6	115.4	118.4
Summary	119.4	99.4	126.7

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 75
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	88.5	71.1	111.0
Jul 2	88.4	68.6	111.4
Jul 3	90.2	70.3	112.7
Jul 4	87.4	67.4	102.1
Jul 5	78.7	66.3	100.6
Jul 6	79.3	68.4	103.2
Jul 7	80.9	68.2	103.0
Jul 8	83.5	70.2	101.5
Jul 9	80.7	70.1	95.8
Jul 10	75.9	70.0	87.7
Jul 11	76.6	69.4	90.0
Jul 12	73.2	68.9	85.0
Jul 13	73.5	69.0	85.4
Jul 14	81.4	65.7	100.8
Jul 15	83.4	63.6	106.4
Jul 16	85.3	66.7	107.6
Jul 17	87.4	68.6	110.0
Jul 18	81.5	69.4	100.1
Jul 19	79.9	70.2	96.7
Jul 20	83.9	70.9	103.6
Jul 21	84.2	73.3	101.5
Jul 22	75.2	72.1	83.5
Jul 23	77.8	68.2	98.0
Jul 24	73.9	66.5	87.1
Jul 25	75.8	67.7	91.9
Jul 26	78.6	68.0	97.7
Jul 27	82.4	70.1	102.7
Jul 28	77.5	71.2	92.3
Jul 29	78.6	68.0	96.4
Jul 30	76.2	59.0	98.6
Summary	80.7	73.2	90.2

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 76

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	126.0	125.6	126.4
Jul 2	126.0	125.6	126.4
Jul 3	126.3	125.8	126.8
Jul 4	126.7	126.3	127.2
Jul 5	126.9	126.3	127.3
Jul 6	127.4	127.0	127.9
Jul 7	124.4	93.1	127.9
Jul 8	127.8	127.5	128.2
Jul 9	127.8	127.5	128.0
Jul 10	127.8	127.6	128.0
Jul 11	127.8	127.7	128.1
Jul 12	127.8	127.6	128.1
Jul 13	128.0	127.8	128.4
Jul 14	128.3	127.9	128.8
Jul 15	128.7	128.3	129.3
Jul 16	128.9	128.4	129.4
Jul 17	129.3	128.9	129.7
Jul 18	129.5	129.1	129.8
Jul 19	129.7	129.4	130.0
Jul 20	130.0	129.7	130.3
Jul 21	130.1	129.8	130.4
Jul 22	130.2	129.9	130.4
Jul 23	127.2	93.3	130.7
Jul 24	123.4	111.8	130.5
Jul 25	130.1	129.8	130.4
Jul 26	130.4	130.2	130.7
Jul 27	130.7	130.5	131.1
Jul 28	130.8	130.7	131.1
Jul 29	131.1	130.8	131.4
Jul 30	131.2	131.0	131.6
Summary	128.3	123.4	131.2

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 77

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	88.8	71.1	109.7
Jul 2	88.7	68.6	110.3
Jul 3	90.2	70.6	112.1
Jul 4	87.1	67.4	108.8
Jul 5	79.2	66.0	99.4
Jul 6	79.3	68.4	106.1
Jul 7	80.8	68.4	101.6
Jul 8	82.9	70.3	99.5
Jul 9	80.1	70.1	96.9
Jul 10	75.7	69.8	87.7
Jul 11	76.3	69.3	88.6
Jul 12	73.1	69.1	85.5
Jul 13	74.2	68.9	88.0
Jul 14	81.8	65.7	104.1
Jul 15	84.0	63.4	107.5
Jul 16	84.8	66.8	106.3
Jul 17	87.3	68.5	109.5
Jul 18	80.9	69.6	96.2
Jul 19	79.5	70.3	97.8
Jul 20	83.7	71.1	101.1
Jul 21	82.8	73.3	97.7
Jul 22	75.3	72.0	83.3
Jul 23	78.3	67.4	96.9
Jul 24	74.5	67.1	86.3
Jul 25	75.5	68.0	88.5
Jul 26	78.7	68.2	94.3
Jul 27	82.8	70.2	100.2
Jul 28	77.0	70.6	91.8
Jul 29	78.1	68.3	91.5
Jul 30	75.4	59.3	93.8
Summary	80.6	73.1	90.2

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 78

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	114.4	111.2	117.3
Jul 2	114.6	112.3	117.8
Jul 3	114.6	112.3	117.5
Jul 4	114.2	108.7	116.3
Jul 5	112.1	108.0	115.1
Jul 6	112.9	111.0	116.1
Jul 7	110.7	82.6	115.4
Jul 8	113.4	112.4	115.4
Jul 9	112.7	111.9	114.1
Jul 10	112.1	111.1	113.1
Jul 11	111.5	109.2	112.8
Jul 12	111.4	110.2	112.5
Jul 13	112.0	109.3	113.2
Jul 14	112.6	111.1	115.0
Jul 15	112.2	110.9	115.0
Jul 16	111.0	108.4	114.8
Jul 17	112.9	111.1	115.3
Jul 18	112.0	110.6	113.9
Jul 19	111.8	110.9	113.3
Jul 20	112.5	111.3	114.0
Jul 21	112.1	111.2	113.3
Jul 22	110.8	108.8	111.7
Jul 23	108.6	79.9	113.8
Jul 24	106.3	92.8	116.5
Jul 25	112.3	111.1	113.6
Jul 26	112.5	111.5	113.7
Jul 27	112.5	111.5	114.8
Jul 28	111.5	110.5	112.2
Jul 29	110.9	108.1	113.2
Jul 30	111.3	107.8	113.8
Summary	112.0	106.3	114.6

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 79

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	90.1	71.7	115.7
Jul 2	88.9	68.5	113.2
Jul 3	90.1	71.0	113.7
Jul 4	87.1	67.3	106.4
Jul 5	78.9	66.2	100.4
Jul 6	79.9	69.0	109.2
Jul 7	80.4	68.4	97.6
Jul 8	84.2	70.5	106.9
Jul 9	81.0	70.2	100.1
Jul 10	76.1	70.2	85.1
Jul 11	76.5	69.1	92.1
Jul 12	73.0	69.1	83.5
Jul 13	73.9	68.9	87.7
Jul 14	81.5	65.1	103.0
Jul 15	84.2	63.8	108.9
Jul 16	85.9	67.2	109.2
Jul 17	87.9	68.9	111.0
Jul 18	81.2	69.9	101.4
Jul 19	79.7	70.7	101.3
Jul 20	83.8	71.3	103.5
Jul 21	83.3	73.5	101.1
Jul 22	75.6	71.8	83.5
Jul 23	78.3	67.8	97.4
Jul 24	74.9	66.7	88.3
Jul 25	75.7	68.1	91.3
Jul 26	79.1	68.0	99.4
Jul 27	83.1	70.4	103.4
Jul 28	77.3	70.8	93.0
Jul 29	78.5	67.1	94.9
Jul 30	76.2	59.4	99.7
Summary	80.9	73.0	90.1

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 80
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	87.3	69.8	109.1
Jul 2	87.8	67.0	111.4
Jul 3	89.1	68.8	114.8
Jul 4	85.8	67.6	111.5
Jul 5	80.0	65.9	101.4
Jul 6	79.3	67.5	103.3
Jul 7	80.9	67.6	108.0
Jul 8	82.8	69.0	103.7
Jul 9	79.5	68.4	96.7
Jul 10	75.3	68.4	87.1
Jul 11	75.9	68.8	89.5
Jul 12	72.6	68.5	84.8
Jul 13	72.1	67.1	87.2
Jul 14	80.2	63.8	99.2
Jul 15	83.5	62.0	107.2
Jul 16	84.7	65.3	107.5
Jul 17	87.2	67.0	108.8
Jul 18	80.9	68.8	103.6
Jul 19	78.7	68.8	95.7
Jul 20	83.6	70.4	104.1
Jul 21	83.2	72.1	99.5
Jul 22	75.0	72.0	84.6
Jul 23	77.6	67.0	102.3
Jul 24	73.6	65.7	87.5
Jul 25	75.4	67.5	91.6
Jul 26	77.6	67.9	97.2
Jul 27	82.7	69.0	103.4
Jul 28	76.0	69.9	92.7
Jul 29	78.4	64.3	97.6
Jul 30	75.5	57.4	95.9
Summary	80.1	72.1	89.1

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 81
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	169.4	166.6	171.1
Jul 2	168.5	167.5	169.4
Jul 3	168.6	167.3	169.5
Jul 4	168.1	152.2	170.1
Jul 5	159.8	87.0	174.4
Jul 6	167.7	164.7	169.4
Jul 7	159.6	93.1	170.4
Jul 8	167.0	166.1	167.9
Jul 9	167.2	166.4	168.0
Jul 10	166.8	162.7	167.9
Jul 11	166.6	164.2	167.6
Jul 12	166.3	165.5	167.1
Jul 13	165.7	164.4	167.4
Jul 14	164.2	163.4	165.2
Jul 15	162.3	125.5	166.2
Jul 16	121.9	76.7	182.9
Jul 17	166.4	165.3	167.8
Jul 18	164.7	163.9	165.5
Jul 19	164.5	163.3	165.3
Jul 20	164.7	163.7	165.8
Jul 21	164.4	163.8	165.0
Jul 22	163.1	161.0	164.9
Jul 23	154.8	90.2	163.5
Jul 24	127.5	76.9	175.4
Jul 25	161.9	161.3	162.9
Jul 26	161.9	161.3	162.4
Jul 27	161.9	161.5	162.8
Jul 28	161.1	160.5	161.5
Jul 29	161.6	157.2	165.2
Jul 30	166.3	165.0	167.8
Summary	161.8	121.9	169.4

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 82

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	168.1	166.0	170.0
Jul 2	169.1	168.2	171.0
Jul 3	169.3	168.2	170.4
Jul 4	168.5	147.5	170.5
Jul 5	165.2	149.4	169.1
Jul 6	166.3	160.6	169.0
Jul 7	165.3	150.6	168.5
Jul 8	167.7	166.5	168.5
Jul 9	167.2	165.0	168.3
Jul 10	166.8	159.8	168.4
Jul 11	165.2	162.7	167.6
Jul 12	164.9	162.6	165.8
Jul 13	165.2	160.0	166.8
Jul 14	166.0	164.8	168.0
Jul 15	164.0	97.1	169.9
Jul 16	168.4	166.1	169.7
Jul 17	167.5	166.5	169.3
Jul 18	165.3	161.4	166.9
Jul 19	165.7	162.4	167.0
Jul 20	166.6	164.8	167.9
Jul 21	166.6	164.6	167.5
Jul 22	164.5	153.1	168.1
Jul 23	162.8	144.5	167.5
Jul 24	160.6	148.1	168.2
Jul 25	166.1	164.7	167.0
Jul 26	166.5	165.2	167.3
Jul 27	167.1	165.9	168.4
Jul 28	167.0	163.6	167.9
Jul 29	166.2	164.3	166.9
Jul 30	166.4	165.3	167.8
Summary	166.2	160.6	169.3

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 83
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	169.0	167.5	170.0
Jul 2	168.6	167.5	169.6
Jul 3	168.7	167.3	170.0
Jul 4	168.1	148.8	170.3
Jul 5	160.8	100.9	172.5
Jul 6	136.3	91.1	168.6
Jul 7	113.5	76.5	128.4
Jul 8	123.4	116.2	129.1
Jul 9	121.7	117.6	132.4
Jul 10	118.6	102.3	125.1
Jul 11	118.3	100.8	122.9
Jul 12	120.2	109.4	128.2
Jul 13	121.3	109.5	125.5
Jul 14	127.1	119.2	134.6
Jul 15	129.0	88.9	142.4
Jul 16	100.0	70.8	132.9
Jul 17	133.6	123.8	144.9
Jul 18	129.7	107.1	140.5
Jul 19	132.3	119.6	137.7
Jul 20	136.6	128.7	142.3
Jul 21	135.1	129.2	139.1
Jul 22	127.3	108.0	138.8
Jul 23	124.6	75.3	141.3
Jul 24	101.4	68.6	133.9
Jul 25	132.4	128.0	136.8
Jul 26	137.9	130.4	143.3
Jul 27	141.8	137.1	147.8
Jul 28	139.5	130.3	143.7
Jul 29	137.1	131.9	142.2
Jul 30	138.5	134.2	145.9
Summary	133.7	100.0	169.0

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 84
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	158.5	147.0	162.0
Jul 2	158.6	158.1	159.2
Jul 3	158.5	157.8	159.2
Jul 4	158.4	156.9	159.1
Jul 5	156.4	142.6	161.6
Jul 6	158.1	157.3	159.0
Jul 7	154.4	123.2	163.2
Jul 8	157.8	157.5	158.5
Jul 9	157.8	157.6	158.4
Jul 10	157.7	156.9	158.2
Jul 11	157.6	156.9	158.0
Jul 12	157.3	156.9	157.8
Jul 13	157.2	156.7	157.6
Jul 14	157.2	156.7	157.9
Jul 15	154.7	117.0	158.1
Jul 16	154.4	140.1	170.4
Jul 17	158.2	157.7	158.7
Jul 18	157.5	156.6	158.3
Jul 19	157.4	156.8	158.1
Jul 20	157.5	157.0	158.1
Jul 21	157.4	157.0	157.9
Jul 22	157.0	156.3	157.4
Jul 23	152.7	114.8	157.4
Jul 24	150.8	130.0	166.8
Jul 25	157.2	156.7	157.7
Jul 26	157.1	156.6	157.8
Jul 27	157.3	156.9	157.9
Jul 28	157.0	156.8	157.4
Jul 29	156.9	156.5	157.2
Jul 30	156.7	156.4	157.2
Summary	156.9	150.8	158.6

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 85

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	136.7	133.7	138.4
Jul 2	138.2	135.2	142.6
Jul 3	135.9	133.2	140.6
Jul 4	135.5	131.0	139.4
Jul 5	118.4	78.4	130.2
Jul 6	134.3	127.6	140.8
Jul 7	128.5	80.1	138.8
Jul 8	138.8	137.1	141.9
Jul 9	140.3	139.0	143.2
Jul 10	139.9	137.4	141.5
Jul 11	137.9	134.5	139.8
Jul 12	130.6	124.1	135.8
Jul 13	131.1	125.3	135.5
Jul 14	139.9	134.4	145.0
Jul 15	135.9	89.0	142.7
Jul 16	102.0	66.0	144.2
Jul 17	141.4	137.1	146.1
Jul 18	139.8	136.8	141.4
Jul 19	141.2	139.8	143.8
Jul 20	143.6	141.9	145.9
Jul 21	143.3	142.1	145.1
Jul 22	138.7	131.9	143.8
Jul 23	127.7	78.3	137.8
Jul 24	111.6	67.6	142.3
Jul 25	140.7	139.0	142.1
Jul 26	141.7	140.7	143.1
Jul 27	142.8	141.1	145.4
Jul 28	142.6	140.7	143.3
Jul 29	141.0	138.8	142.1
Jul 30	140.3	138.6	143.2
Summary	135.4	102.0	143.6

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 86

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	148.7	148.0	149.4
Jul 2	148.3	147.8	149.0
Jul 3	148.4	147.7	149.3
Jul 4	148.1	141.2	149.1
Jul 5	140.7	119.6	148.0
Jul 6	144.2	143.2	145.6
Jul 7	139.3	89.5	146.4
Jul 8	146.1	145.4	146.9
Jul 9	146.7	146.3	147.6
Jul 10	147.0	146.6	147.7
Jul 11	146.9	146.5	147.3
Jul 12	147.3	146.9	147.7
Jul 13	146.9	145.3	147.5
Jul 14	147.4	146.7	148.0
Jul 15	145.8	117.6	149.0
Jul 16	137.7	118.8	154.0
Jul 17	149.4	148.9	149.8
Jul 18	148.9	148.5	149.4
Jul 19	148.8	148.4	149.5
Jul 20	149.0	148.5	149.6
Jul 21	149.1	148.8	149.6
Jul 22	148.8	147.6	149.2
Jul 23	141.9	91.0	148.0
Jul 24	135.7	111.3	151.3
Jul 25	148.8	148.4	149.1
Jul 26	149.1	148.7	149.5
Jul 27	149.4	148.9	150.0
Jul 28	149.3	149.1	149.7
Jul 29	149.3	149.1	149.6
Jul 30	149.4	149.0	150.0
Summary	146.5	135.7	149.4

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 87
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	109.5	95.9	123.8
Jul 2	110.1	95.6	122.9
Jul 3	111.1	97.0	126.7
Jul 4	109.8	80.6	124.2
Jul 5	97.8	80.7	113.9
Jul 6	103.5	91.5	123.8
Jul 7	104.9	93.4	116.9
Jul 8	107.4	101.9	117.9
Jul 9	105.4	101.5	114.7
Jul 10	102.4	92.7	109.6
Jul 11	100.8	88.6	107.7
Jul 12	100.4	93.1	110.2
Jul 13	98.0	93.9	103.5
Jul 14	103.5	93.3	117.4
Jul 15	107.6	95.3	123.7
Jul 16	105.9	91.9	124.8
Jul 17	112.0	100.7	126.7
Jul 18	105.6	90.9	117.1
Jul 19	106.8	99.9	117.4
Jul 20	108.8	101.9	116.5
Jul 21	107.0	103.7	113.2
Jul 22	100.8	88.6	106.9
Jul 23	102.1	90.0	114.9
Jul 24	100.4	89.7	113.0
Jul 25	106.4	100.5	111.2
Jul 26	110.6	103.1	117.3
Jul 27	111.8	107.6	118.8
Jul 28	107.3	102.0	113.1
Jul 29	103.3	97.5	108.7
Jul 30	102.0	90.9	114.8
Summary	105.4	97.8	112.0

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 88

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	166.0	165.2	166.6
Jul 2	165.2	164.5	166.1
Jul 3	165.2	164.5	166.1
Jul 4	165.2	163.5	166.0
Jul 5	166.4	163.2	172.5
Jul 6	164.9	163.8	166.1
Jul 7	164.1	144.6	169.1
Jul 8	164.0	163.4	164.9
Jul 9	163.8	163.5	164.5
Jul 10	163.7	163.0	164.1
Jul 11	163.5	162.7	163.9
Jul 12	163.3	162.5	164.0
Jul 13	162.8	161.4	163.5
Jul 14	162.7	161.9	163.5
Jul 15	162.2	153.6	163.7
Jul 16	162.8	141.1	180.3
Jul 17	163.5	162.8	164.2
Jul 18	162.8	162.4	163.5
Jul 19	162.7	162.2	163.3
Jul 20	162.9	162.4	163.4
Jul 21	162.8	162.0	163.5
Jul 22	162.3	161.6	162.9
Jul 23	158.9	113.9	162.8
Jul 24	164.5	155.8	169.5
Jul 25	161.9	161.5	162.4
Jul 26	162.0	161.5	162.6
Jul 27	161.9	161.4	162.6
Jul 28	161.6	161.1	162.0
Jul 29	161.6	160.9	162.0
Jul 30	161.7	160.9	162.0
Summary	163.2	158.9	166.4

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 89
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	195.6	195.0	196.2
Jul 2	195.7	195.0	196.2
Jul 3	195.5	194.8	196.2
Jul 4	195.0	190.6	196.0
Jul 5	193.8	180.8	195.8
Jul 6	194.3	191.5	195.6
Jul 7	193.7	192.0	195.9
Jul 8	193.4	191.6	194.6
Jul 9	192.6	190.8	193.8
Jul 10	191.9	187.1	193.3
Jul 11	190.9	187.3	192.8
Jul 12	191.1	187.8	192.2
Jul 13	190.3	187.7	192.7
Jul 14	190.9	187.9	192.5
Jul 15	191.2	190.2	192.4
Jul 16	191.1	190.0	193.7
Jul 17	190.6	189.6	192.1
Jul 18	187.8	181.3	190.3
Jul 19	188.3	186.1	189.6
Jul 20	188.9	186.2	190.4
Jul 21	188.8	185.0	190.9
Jul 22	184.9	161.3	190.9
Jul 23	187.9	183.0	189.5
Jul 24	187.2	182.7	191.2
Jul 25	184.8	181.5	186.9
Jul 26	186.2	179.7	188.5
Jul 27	188.1	185.5	190.3
Jul 28	189.0	184.2	194.3
Jul 29	189.2	188.1	190.3
Jul 30	188.3	187.4	189.2
Summary	190.6	184.8	195.7

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 90
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	130.8	130.3	131.5
Jul 2	130.6	130.1	131.1
Jul 3	130.5	130.0	131.1
Jul 4	130.4	129.4	131.0
Jul 5	127.6	101.2	131.8
Jul 6	130.0	129.7	130.8
Jul 7	124.2	68.5	130.8
Jul 8	130.1	129.7	130.9
Jul 9	130.4	130.0	130.9
Jul 10	130.5	130.3	130.8
Jul 11	130.6	130.1	131.0
Jul 12	130.7	130.4	131.0
Jul 13	130.6	130.1	131.0
Jul 14	130.8	130.4	131.3
Jul 15	129.3	101.8	131.9
Jul 16	109.1	85.2	134.0
Jul 17	131.6	131.1	132.1
Jul 18	131.3	130.9	131.8
Jul 19	131.2	130.9	131.6
Jul 20	131.5	131.0	132.0
Jul 21	131.6	131.2	132.0
Jul 22	131.4	130.9	131.7
Jul 23	126.6	81.7	132.3
Jul 24	108.3	72.6	134.4
Jul 25	131.6	131.3	131.8
Jul 26	131.9	131.3	132.6
Jul 27	132.3	131.9	132.9
Jul 28	132.5	132.2	132.9
Jul 29	132.8	132.5	133.1
Jul 30	133.1	132.6	133.6
Summary	129.1	108.3	133.1

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 91
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	170.0	168.1	171.9
Jul 2	169.0	166.3	170.7
Jul 3	167.1	162.8	170.6
Jul 4	166.5	155.2	170.1
Jul 5	164.2	150.7	168.6
Jul 6	166.7	162.5	172.9
Jul 7	168.3	155.6	171.9
Jul 8	169.7	166.1	172.0
Jul 9	167.5	165.8	170.4
Jul 10	168.7	162.6	170.9
Jul 11	169.6	165.1	171.7
Jul 12	173.2	167.6	177.1
Jul 13	87.0	70.7	176.7
Jul 14	127.6	66.8	183.6
Jul 15	180.0	178.8	181.1
Jul 16	179.4	177.8	180.9
Jul 17	178.9	177.2	181.0
Jul 18	97.2	74.1	179.1
Jul 19	82.6	73.3	102.8
Jul 20	89.1	75.0	109.1
Jul 21	177.9	93.3	184.1
Jul 22	178.7	158.2	183.9
Jul 23	176.9	171.4	179.4
Jul 24	176.7	174.8	179.2
Jul 25	173.7	100.2	181.1
Jul 26	85.3	70.7	101.0
Jul 27	131.5	76.8	186.9
Jul 28	179.0	170.3	183.9
Jul 29	166.7	164.5	169.8
Jul 30	163.4	162.3	164.5
Summary	155.1	82.6	180.0

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 92
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	162.9	156.6	173.2
Jul 2	160.3	152.4	170.9
Jul 3	160.0	144.4	169.4
Jul 4	156.8	135.4	172.8
Jul 5	129.7	79.9	152.9
Jul 6	145.3	99.8	164.5
Jul 7	149.4	137.7	158.5
Jul 8	150.0	138.1	158.7
Jul 9	139.7	123.0	154.5
Jul 10	137.7	100.6	155.2
Jul 11	134.3	101.1	150.7
Jul 12	141.6	122.7	153.6
Jul 13	137.8	128.5	147.8
Jul 14	140.9	131.7	151.1
Jul 15	149.8	136.2	165.3
Jul 16	148.6	138.6	159.7
Jul 17	149.5	137.1	161.0
Jul 18	130.6	83.8	148.4
Jul 19	135.6	126.8	143.1
Jul 20	141.7	126.8	150.3
Jul 21	138.7	125.5	152.8
Jul 22	122.2	84.6	149.1
Jul 23	122.1	110.9	137.4
Jul 24	123.6	115.1	134.7
Jul 25	121.8	110.3	130.9
Jul 26	128.9	113.6	136.4
Jul 27	136.4	128.5	147.9
Jul 28	134.7	118.3	156.2
Jul 29	130.3	119.5	139.9
Jul 30	128.8	120.7	136.2
Summary	139.7	121.8	162.9

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 93

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	93.3	76.1	118.2
Jul 2	95.4	74.2	117.9
Jul 3	107.2	96.8	120.6
Jul 4	107.2	89.1	120.3
Jul 5	105.5	71.4	134.5
Jul 6	105.8	68.7	136.4
Jul 7	89.7	71.0	104.1
Jul 8	90.0	71.6	119.9
Jul 9	90.6	81.6	104.9
Jul 10	80.6	75.5	92.9
Jul 11	79.3	71.8	92.8
Jul 12	74.0	69.7	85.6
Jul 13	73.4	67.8	87.1
Jul 14	81.1	64.3	103.9
Jul 15	82.2	63.1	111.8
Jul 16	83.7	65.7	113.0
Jul 17	85.1	67.9	113.7
Jul 18	80.4	69.4	100.6
Jul 19	78.5	70.5	96.7
Jul 20	82.9	71.5	99.7
Jul 21	81.3	72.5	97.7
Jul 22	75.8	72.2	84.0
Jul 23	78.6	66.4	100.8
Jul 24	74.9	66.8	89.0
Jul 25	76.0	68.1	95.5
Jul 26	78.9	68.3	96.6
Jul 27	82.2	69.9	104.5
Jul 28	97.8	70.7	132.5
Jul 29	130.3	119.6	138.4
Jul 30	123.1	117.9	132.7
Summary	88.8	73.4	130.3

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 94
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	157.1	154.1	160.4
Jul 2	158.6	152.3	163.3
Jul 3	160.0	157.7	162.2
Jul 4	162.0	158.3	165.8
Jul 5	169.8	158.1	175.6
Jul 6	170.3	166.6	173.5
Jul 7	168.9	167.1	170.8
Jul 8	167.8	165.8	170.1
Jul 9	166.9	165.5	169.4
Jul 10	166.7	165.0	168.7
Jul 11	166.6	163.8	169.2
Jul 12	165.0	162.9	166.8
Jul 13	140.6	74.6	163.2
Jul 14	121.9	65.0	166.8
Jul 15	159.2	150.2	163.9
Jul 16	156.3	149.9	165.3
Jul 17	160.5	158.4	162.9
Jul 18	91.2	69.3	158.8
Jul 19	78.5	70.1	102.2
Jul 20	114.4	71.1	160.8
Jul 21	149.0	144.1	155.2
Jul 22	149.7	147.0	155.8
Jul 23	153.6	147.5	159.5
Jul 24	154.3	151.7	158.3
Jul 25	153.2	150.8	156.7
Jul 26	149.9	136.7	154.8
Jul 27	139.7	86.2	159.6
Jul 28	157.9	154.4	164.4
Jul 29	161.4	157.1	165.0
Jul 30	160.8	155.9	165.5
Summary	151.1	78.5	170.3

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 95

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	134.3	131.0	136.1
Jul 2	134.6	133.6	136.0
Jul 3	134.6	133.6	136.0
Jul 4	134.3	131.9	135.6
Jul 5	133.3	131.2	134.8
Jul 6	133.5	132.2	135.5
Jul 7	128.2	83.2	134.9
Jul 8	134.1	133.5	135.3
Jul 9	133.3	126.5	135.1
Jul 10	133.3	133.0	133.8
Jul 11	133.3	132.3	134.2
Jul 12	133.3	132.6	134.0
Jul 13	132.8	130.8	133.5
Jul 14	133.5	132.8	135.0
Jul 15	131.7	98.4	135.1
Jul 16	115.5	97.5	136.4
Jul 17	134.3	133.5	135.3
Jul 18	134.0	133.3	135.0
Jul 19	133.7	133.1	135.0
Jul 20	134.0	133.1	135.3
Jul 21	134.0	133.0	135.0
Jul 22	133.5	132.9	133.9
Jul 23	126.8	77.4	134.5
Jul 24	110.6	77.2	134.7
Jul 25	133.5	132.8	134.7
Jul 26	133.6	132.7	134.1
Jul 27	133.8	133.3	134.8
Jul 28	133.5	132.8	134.4
Jul 29	133.1	132.7	134.0
Jul 30	133.0	132.6	134.0
Summary	131.8	110.6	134.6

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 96
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	148.6	139.6	153.6
Jul 2	145.4	142.5	148.6
Jul 3	142.6	140.0	146.9
Jul 4	139.9	129.1	142.5
Jul 5	128.4	83.9	142.3
Jul 6	133.4	93.2	144.0
Jul 7	121.2	89.4	141.1
Jul 8	119.3	97.2	146.2
Jul 9	128.3	114.0	133.6
Jul 10	122.8	116.8	127.3
Jul 11	116.7	109.9	122.3
Jul 12	92.1	76.0	115.5
Jul 13	82.9	76.3	106.0
Jul 14	102.1	73.3	133.2
Jul 15	122.4	86.5	149.1
Jul 16	100.8	76.5	139.3
Jul 17	123.6	102.3	160.7
Jul 18	92.0	82.9	101.9
Jul 19	88.1	82.3	99.0
Jul 20	105.3	83.1	147.6
Jul 21	111.0	92.7	135.6
Jul 22	81.6	72.7	94.3
Jul 23	83.6	69.6	115.5
Jul 24	94.3	73.2	132.3
Jul 25	94.6	88.3	102.2
Jul 26	87.8	77.7	97.5
Jul 27	87.4	78.0	100.2
Jul 28	98.6	77.3	130.8
Jul 29	133.8	131.9	134.9
Jul 30	134.6	133.6	135.8
Summary	112.1	81.6	148.6

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 97

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	180.1	177.4	184.0
Jul 2	176.2	171.0	180.1
Jul 3	169.4	165.4	175.4
Jul 4	166.6	156.0	170.8
Jul 5	152.1	83.2	175.5
Jul 6	156.2	78.1	177.7
Jul 7	169.1	154.9	176.0
Jul 8	175.7	169.0	184.0
Jul 9	168.5	160.3	172.5
Jul 10	170.3	168.1	173.2
Jul 11	172.1	167.7	174.3
Jul 12	112.8	72.4	174.1
Jul 13	74.4	69.4	82.4
Jul 14	107.9	80.8	155.8
Jul 15	133.4	76.7	155.7
Jul 16	85.7	66.7	108.6
Jul 17	110.9	80.7	143.5
Jul 18	92.0	71.4	120.6
Jul 19	94.1	76.7	110.4
Jul 20	87.5	78.1	102.8
Jul 21	83.6	74.8	99.2
Jul 22	143.0	75.8	178.8
Jul 23	148.0	68.5	179.5
Jul 24	100.4	67.4	168.9
Jul 25	76.5	69.6	88.5
Jul 26	78.6	68.5	96.3
Jul 27	91.5	71.8	134.1
Jul 28	151.4	85.4	187.5
Jul 29	172.3	168.1	179.0
Jul 30	164.8	162.3	167.7
Summary	132.2	74.4	180.1

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 98
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	86.2	73.1	106.1
Jul 2	86.4	71.2	107.9
Jul 3	87.8	72.7	109.0
Jul 4	85.9	74.0	103.2
Jul 5	78.2	67.5	95.7
Jul 6	79.6	71.2	101.5
Jul 7	80.7	71.2	98.1
Jul 8	81.5	72.1	98.6
Jul 9	79.7	71.8	93.1
Jul 10	76.4	71.8	86.0
Jul 11	77.0	72.5	86.9
Jul 12	75.1	72.5	82.9
Jul 13	74.5	70.1	85.9
Jul 14	79.7	67.8	95.4
Jul 15	82.1	68.1	103.5
Jul 16	81.9	65.4	106.2
Jul 17	85.3	70.8	107.2
Jul 18	80.6	71.9	98.2
Jul 19	79.4	71.6	96.8
Jul 20	83.4	70.3	106.0
Jul 21	82.1	72.4	99.4
Jul 22	75.7	73.5	80.1
Jul 23	78.9	69.2	92.1
Jul 24	75.0	69.6	85.5
Jul 25	76.1	69.2	92.3
Jul 26	78.4	67.9	98.1
Jul 27	80.9	68.7	101.9
Jul 28	77.1	73.2	87.1
Jul 29	79.9	71.4	95.9
Jul 30	78.2	66.7	94.7
Summary	80.1	74.5	87.8

Solid Waste Permit 588 Daily Wellhead Temperature
Averages for Well 99
 Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	143.9	142.0	145.6
Jul 2	144.8	143.3	146.1
Jul 3	145.1	143.7	146.7
Jul 4	144.8	142.2	146.1
Jul 5	131.4	93.9	142.2
Jul 6	141.2	138.8	143.6
Jul 7	137.1	82.9	144.0
Jul 8	143.4	142.7	144.5
Jul 9	143.3	140.2	144.8
Jul 10	142.9	142.3	143.6
Jul 11	142.6	141.0	143.5
Jul 12	141.7	141.0	142.5
Jul 13	139.9	138.1	140.7
Jul 14	141.2	139.7	142.8
Jul 15	139.3	100.4	144.1
Jul 16	117.6	89.6	145.8
Jul 17	143.4	142.3	144.8
Jul 18	142.7	141.8	144.0
Jul 19	142.7	141.8	144.1
Jul 20	143.1	142.1	144.4
Jul 21	143.1	142.2	144.4
Jul 22	140.6	137.5	142.8
Jul 23	134.5	85.4	141.5
Jul 24	114.1	82.1	142.0
Jul 25	141.7	140.5	142.7
Jul 26	141.9	141.1	142.9
Jul 27	142.4	141.6	143.8
Jul 28	142.5	142.0	143.4
Jul 29	142.6	142.2	144.0
Jul 30	142.7	141.8	144.0
Summary	139.9	114.1	145.1

Solid Waste Permit 588 Daily Wellhead Temperature

Averages for Well 100

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jul 1	160.4	160.0	160.8
Jul 2	159.8	105.9	173.3
Jul 3	160.1	159.6	160.6
Jul 4	162.4	157.3	164.9
Jul 5	159.0	152.6	161.9
Jul 6	170.4	116.7	185.3
Jul 7	157.3	141.1	159.5
Jul 8	150.4	113.6	182.5
Jul 9	158.8	158.5	159.1
Jul 10	153.9	111.9	180.0
Jul 11	158.7	158.1	159.0
Jul 12	72.1	68.6	81.1
Jul 13	158.3	157.8	158.6
Jul 14	112.6	67.9	184.7
Jul 15	157.5	147.4	158.8
Jul 16	130.7	75.8	167.5
Jul 17	158.8	158.2	159.3
Jul 18	80.5	70.1	100.1
Jul 19	158.5	158.3	159.0
Jul 20	96.5	70.3	140.1
Jul 21	158.6	158.5	159.0
Jul 22	84.7	77.0	117.8
Jul 23	156.5	139.7	158.6
Jul 24	100.4	67.9	180.3
Jul 25	158.1	157.9	158.2
Jul 26	77.2	67.5	92.0
Jul 27	158.0	157.8	158.4
Jul 28	122.7	69.6	182.3
Jul 29	157.9	157.7	158.1
Jul 30	172.1	158.6	178.7
Summary	158.2	154.3	160.4

Appendix D

Solid Waste Permit 588 Daily Borehole Temperature Averages

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Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 1

Date	Depth from Surface					
	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft
1-Jul	158.4	224.8	224.9	240.4	252.6	256.1
2-Jul	158.1	224.7	224.8	240.4	252.7	261.0
3-Jul	157.9	224.9	225.0	240.6	252.7	261.0
4-Jul	157.3	224.6	224.8	240.5	252.5	261.0
5-Jul	156.7	224.5	224.6	240.3	252.4	260.8
6-Jul	155.8	224.5	224.6	240.3	252.3	260.7
7-Jul	154.9	224.5	224.5	240.2	252.4	260.7
8-Jul	154.6	224.6	224.6	240.3	252.5	260.7
9-Jul	154.4	224.5	224.5	240.3	252.3	260.6
10-Jul	153.9	224.4	224.5	240.3	252.3	260.7
11-Jul	153.9	224.4	224.5	240.3	252.3	260.6
12-Jul	153.5	224.3	224.4	240.3	252.3	260.6
13-Jul	153.1	224.3	224.4	240.3	252.2	260.7
14-Jul	153.2	224.7	224.6	240.5	252.4	260.8
15-Jul	153.1	224.7	224.7	240.5	252.5	260.8
16-Jul	153.0	224.7	224.7	240.5	252.6	260.8
17-Jul	153.0	224.8	224.8	240.6	252.7	261.0
18-Jul	152.8	224.6	224.6	240.5	252.5	260.9
19-Jul	152.7	224.6	224.5	240.4	252.4	260.8
20-Jul	152.9	224.8	224.7	240.5	252.6	261.0
21-Jul	153.0	224.7	224.6	240.5	252.6	261.0
22-Jul	152.7	224.4	224.4	240.3	252.4	260.8
23-Jul	152.8	224.6	224.5	240.4	252.5	260.8
24-Jul	152.3	224.5	224.4	240.2	252.4	260.7
25-Jul	152.6	224.5	224.4	240.4	252.5	260.7
26-Jul	152.4	224.5	224.5	240.4	252.6	260.8
27-Jul	152.5	224.7	224.6	240.4	252.7	260.9
28-Jul	152.6	224.5	224.4	240.3	252.5	260.8
29-Jul	152.8	224.6	224.5	240.4	252.6	260.8
30-Jul	152.8	224.6	224.5	240.2	252.5	260.7
31-Jul	152.9	224.7	224.6	240.2	252.5	260.8
Average	154.0	224.6	224.6	240.4	252.5	260.6

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 5

Date	Depth from Surface							
	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Jul	144.5	210.9	211.3	221.8	230.7	231.7	205.8	201.2
2-Jul	144.5	211.0	211.3	221.9	230.6	231.6	205.7	201.1
3-Jul	144.8	211.0	211.3	222.0	230.7	231.7	205.7	201.2
4-Jul	145.0	211.0	211.3	222.0	230.7	231.6	205.6	201.1
5-Jul	144.6	210.7	211.1	221.8	230.4	231.2	205.2	200.8
6-Jul	144.6	210.7	211.1	221.9	230.5	231.4	205.3	201.0
7-Jul	144.6	210.5	210.9	221.7	230.3	231.1	205.0	200.7
8-Jul	144.9	210.7	211.0	221.6	230.4	231.2	204.9	200.8
9-Jul	144.7	210.7	211.0	221.6	230.5	231.3	204.9	200.9
10-Jul	144.8	210.4	210.9	221.5	230.4	231.2	204.8	200.6
11-Jul	145.5	210.5	210.9	221.4	230.4	231.2	205.4	200.7
12-Jul	147.0	210.2	210.6	221.2	230.4	231.1	206.0	200.5
13-Jul	147.6	210.2	210.5	221.3	230.5	231.0	207.0	200.4
14-Jul	148.1	210.4	210.8	221.3	230.9	231.1	208.0	200.4
15-Jul	149.8	210.6	211.1	221.7	231.2	231.4	208.9	200.7
16-Jul	150.2	210.4	210.9	221.7	231.2	231.3	209.3	200.7
17-Jul	149.4	210.4	210.7	221.8	231.3	231.4	209.8	200.7
18-Jul	149.9	210.4	210.7	221.6	231.1	231.2	210.2	200.5
19-Jul	149.7	210.4	210.8	222.0	231.2	231.2	210.7	200.5
20-Jul	149.9	210.4	210.8	222.1	231.3	231.2	210.6	200.5
21-Jul	148.0	210.4	210.7	222.0	231.3	231.1	210.2	200.5
22-Jul	147.1	210.1	210.5	221.9	231.1	230.7	209.9	200.2
23-Jul	148.7	210.3	210.7	222.1	231.3	230.9	210.4	200.4
24-Jul	154.5	210.1	210.5	221.8	231.0	230.6	210.6	200.1
25-Jul	158.2	210.1	210.5	222.1	231.1	230.6	211.8	200.2
26-Jul	163.3	210.2	210.6	222.2	231.1	230.7	213.1	200.2
27-Jul	152.3	210.3	210.7	222.2	231.1	230.8	214.5	200.3
28-Jul	148.6	210.0	210.4	222.0	230.8	230.5	215.5	200.0
29-Jul	145.3	210.1	210.5	222.1	230.9	230.6	216.2	200.1
30-Jul	143.0	209.9	210.3	222.0	230.6	230.3	216.4	199.9
31-Jul	148.0	210.0	210.4	222.0	230.7	230.5	216.8	200.0
Average	148.1	210.4	210.8	221.8	230.8	231.1	209.2	200.5

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 6

Date	Depth from Surface				
	25 ft	50 ft	75 ft	100 ft	125 ft
1-Jul	145.0	201.0	*	201.8	203.9
2-Jul	144.8	201.9	*	202.9	205.4
3-Jul	144.2	203.1	*	204.1	206.0
4-Jul	143.9	203.0	*	204.3	206.0
5-Jul	144.9	201.9	*	202.0	204.6
6-Jul	145.3	201.1	*	201.5	204.1
7-Jul	144.7	202.0	*	202.1	205.1
8-Jul	144.4	202.0	*	201.6	204.8
9-Jul	144.1	202.3	*	201.9	205.0
10-Jul	143.2	202.8	*	202.3	204.9
11-Jul	143.4	202.4	*	202.0	204.3
12-Jul	143.2	201.9	*	201.7	203.2
13-Jul	*	*	*	*	*
14-Jul	*	*	*	*	*
15-Jul	*	*	*	*	*
16-Jul	*	*	*	*	*
17-Jul	*	*	*	*	*
18-Jul	*	*	*	*	*
19-Jul	*	*	*	*	*
20-Jul	*	*	*	*	*
21-Jul	*	*	*	*	*
22-Jul	*	*	*	*	*
23-Jul	*	*	*	*	*
24-Jul	*	*	*	*	*
25-Jul	*	*	*	*	*
26-Jul	*	*	*	*	*
27-Jul	*	*	*	*	*
28-Jul	*	*	*	*	*
29-Jul	*	*	*	*	*
30-Jul	*	*	*	*	*
31-Jul	*	*	*	*	*
Average	144.3	202.1	*	202.4	204.8

* Indicates sensor reading issues

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 8

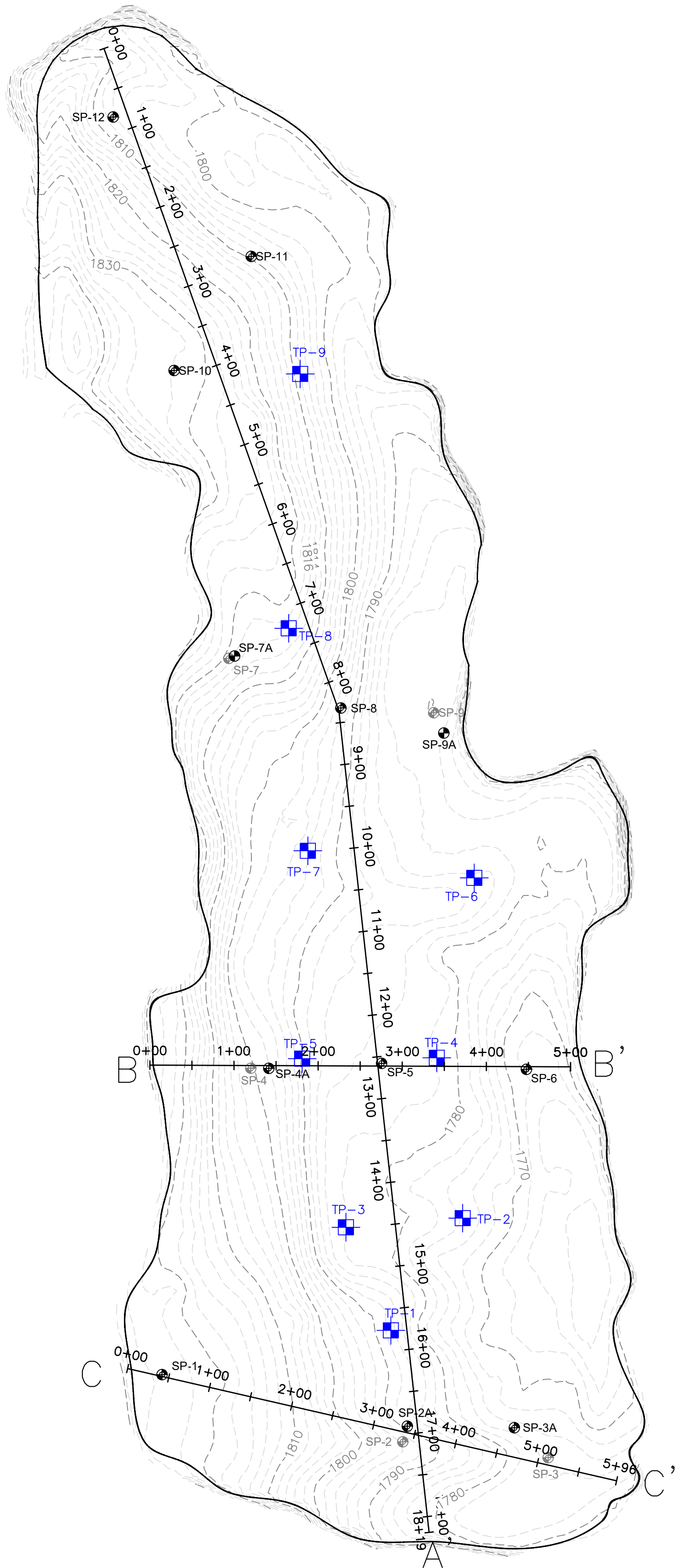
Date	Depth from Surface							
	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Jul	182.8	193.5	193.7	195.7	199.7	199.4	186.5	167.8
2-Jul	182.4	193.5	193.7	195.7	199.8	199.4	186.5	167.7
3-Jul	182.9	193.5	193.7	195.7	199.8	199.5	186.5	167.8
4-Jul	182.5	193.5	193.7	195.7	199.8	199.5	186.5	167.8
5-Jul	176.5	193.3	193.4	195.4	199.5	199.2	186.4	167.5
6-Jul	177.9	193.3	193.5	195.5	199.6	199.2	186.5	167.7
7-Jul	176.2	193.4	193.5	195.5	199.6	199.2	186.3	167.6
8-Jul	178.0	193.4	193.5	195.5	199.7	199.2	186.4	167.6
9-Jul	181.2	193.3	193.5	195.5	199.6	199.3	186.4	167.6
10-Jul	180.0	193.2	193.3	195.3	199.5	199.1	186.1	167.3
11-Jul	175.3	193.2	193.4	195.4	199.6	199.2	186.2	167.3
12-Jul	170.0	193.1	193.2	195.3	199.4	199.0	186.0	167.1
13-Jul	169.6	193.0	193.2	195.2	199.3	198.9	185.9	167.0
14-Jul	169.7	193.3	193.4	195.5	199.6	199.1	186.2	167.3
15-Jul	175.3	193.2	193.4	195.4	199.6	199.1	186.1	167.2
16-Jul	183.6	193.3	193.5	195.5	199.7	199.3	186.2	167.3
17-Jul	181.1	193.4	193.6	195.6	199.7	199.3	186.2	167.2
18-Jul	177.4	193.3	193.5	195.4	199.7	199.3	186.1	167.2
19-Jul	180.3	193.3	193.4	195.4	199.6	199.2	186.2	167.1
20-Jul	181.0	193.5	193.6	195.6	199.8	199.4	186.2	167.3
21-Jul	181.8	193.3	193.5	195.4	199.6	199.2	186.0	167.0
22-Jul	173.6	193.1	193.3	195.2	199.4	199.1	185.8	166.7
23-Jul	170.8	193.3	193.4	195.5	199.6	199.2	186.0	166.9
24-Jul	179.6	193.2	193.3	195.4	199.5	199.0	185.7	166.6
25-Jul	172.7	193.2	193.4	195.4	199.5	199.1	185.7	166.7
26-Jul	173.9	193.2	193.4	195.4	199.6	199.2	185.8	166.7
27-Jul	175.3	193.3	193.4	195.4	199.6	199.2	185.6	166.5
28-Jul	177.2	193.1	193.2	195.1	199.3	199.0	185.2	166.2
29-Jul	178.6	193.2	193.3	195.3	199.3	199.0	185.2	166.3
30-Jul	179.6	193.1	193.2	195.3	199.3	199.0	185.1	166.2
31-Jul	181.3	193.1	193.3	195.4	199.4	199.0	185.1	166.2
Average	177.7	193.3	193.4	195.4	199.6	199.2	186.0	167.1

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 9

Date	Depth from Surface							
	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Jul	112.0	151.3	151.0	148.2	143.0	130.2	115.4	103.5
2-Jul	111.9	151.1	150.9	148.2	143.0	130.2	115.4	103.4
3-Jul	112.0	151.2	151.0	148.3	143.1	130.3	115.5	103.5
4-Jul	111.8	151.0	150.8	148.2	143.0	130.1	115.3	103.3
5-Jul	111.3	150.7	150.4	148.1	142.8	129.9	115.2	103.6
6-Jul	111.2	150.6	150.3	148.1	142.7	129.8	114.7	104.4
7-Jul	111.2	150.7	150.4	148.1	142.9	129.9	114.1	105.1
8-Jul	111.2	150.6	150.3	148.1	142.9	130.0	114.3	105.2
9-Jul	111.2	150.5	150.2	148.1	142.8	129.9	114.3	105.1
10-Jul	110.9	150.4	150.1	148.0	142.6	129.7	114.2	104.9
11-Jul	110.8	150.3	150.1	148.0	142.6	129.7	114.1	104.8
12-Jul	110.5	150.1	149.9	147.9	142.5	129.6	113.9	104.8
13-Jul	110.4	150.0	149.7	148.0	142.6	129.7	113.6	104.8
14-Jul	110.6	150.2	149.8	148.3	142.9	130.0	114.0	105.2
15-Jul	110.6	150.1	149.8	148.3	142.9	130.0	114.3	105.1
16-Jul	110.5	150.1	149.7	148.4	143.0	130.1	114.6	105.1
17-Jul	110.6	150.2	150.0	148.4	143.1	130.2	114.8	105.0
18-Jul	110.3	149.9	149.7	148.2	142.8	130.0	114.4	104.6
19-Jul	110.1	149.7	149.3	148.1	142.7	130.0	114.1	104.5
20-Jul	110.3	149.9	149.4	148.4	143.0	130.2	114.4	104.8
21-Jul	110.2	149.8	149.3	148.3	142.9	130.1	114.4	104.7
22-Jul	109.8	149.5	149.0	148.0	142.6	129.8	113.7	104.5
23-Jul	109.8	149.6	149.0	148.2	142.7	129.9	113.5	105.0
24-Jul	109.7	149.6	149.2	148.0	142.6	129.8	113.7	105.4
25-Jul	109.4	149.3	148.6	148.2	142.7	129.9	114.0	105.6
26-Jul	109.5	149.2	148.5	148.3	142.8	129.9	114.4	105.7
27-Jul	109.8	149.4	148.7	148.5	143.0	130.1	114.7	105.9
28-Jul	109.5	148.9	148.2	148.2	142.7	129.8	114.4	105.4
29-Jul	109.7	149.0	148.4	148.3	142.9	130.0	114.5	105.5
30-Jul	109.5	149.0	148.4	148.1	142.7	129.9	114.3	105.4
31-Jul	109.6	149.1	148.4	148.2	142.8	129.9	114.2	105.4
Average	110.5	150.0	149.6	148.2	142.8	130.0	114.4	104.8

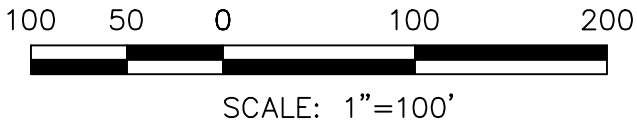
Appendix E

Monthly Topography Analysis

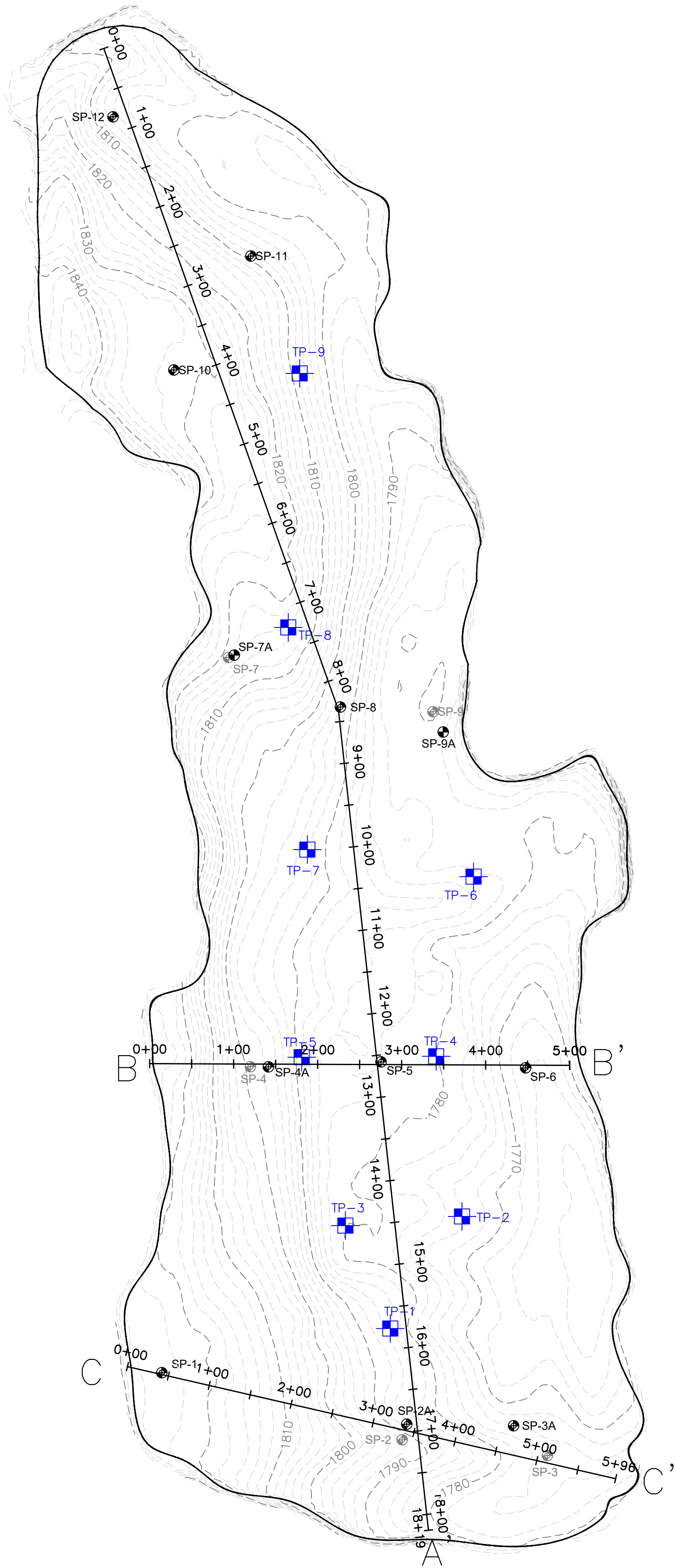


- LEGEND**
- MAJOR CONTOURS (EVERY 10')
 - MINOR CONTOURS (EVERY 2')
 - APPROXIMATE SIDEWALL LOCATION
 - SP-8 SETTLEMENT PLATE
 - SP-9 DECOMMISSIONED SETTLEMENT PLATE
 - TP-3 TEMPERATURE MONITORING PROBE

- NOTES:**
- GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON JULY 29, 2025 BY SCS ENGINEERS.
 - ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FLOOD PLAIN DETERMINATION.
 - THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD-83 (2011).
 - THE VERTICAL DATUM IS BASED UPON NAVD-88.

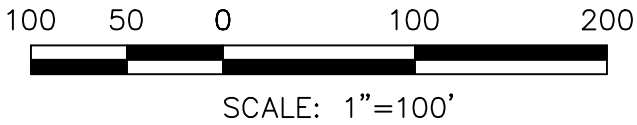


CLIENT	CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY		JULY 2025		NO.	REVISION	DATE			
	2655 VALLEY DRIVE		LANDFILL TOPOGRAPHY							
	BRISTOL, VIRGINIA 24201		PROJECT TITLE							
	MONTHLY TOPOGRAPHY ANALYSIS		SOLID WASTE PERMIT #588							
SCS ENGINEERS	STEARNs, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.		PROJ. NO.		DRAWN BY:	CHECK BY:	DATE:			
	1827 W. 10TH AVENUE, SUITE 100, BRISTOL, VA 24201		CADD FILE:							
	PH: (804) 378-7440 FAX: (804) 378-7433		SURF1 COMP							
	DATE: 8/3/2026		SCALE:							
DRAWING NO.		1		8						

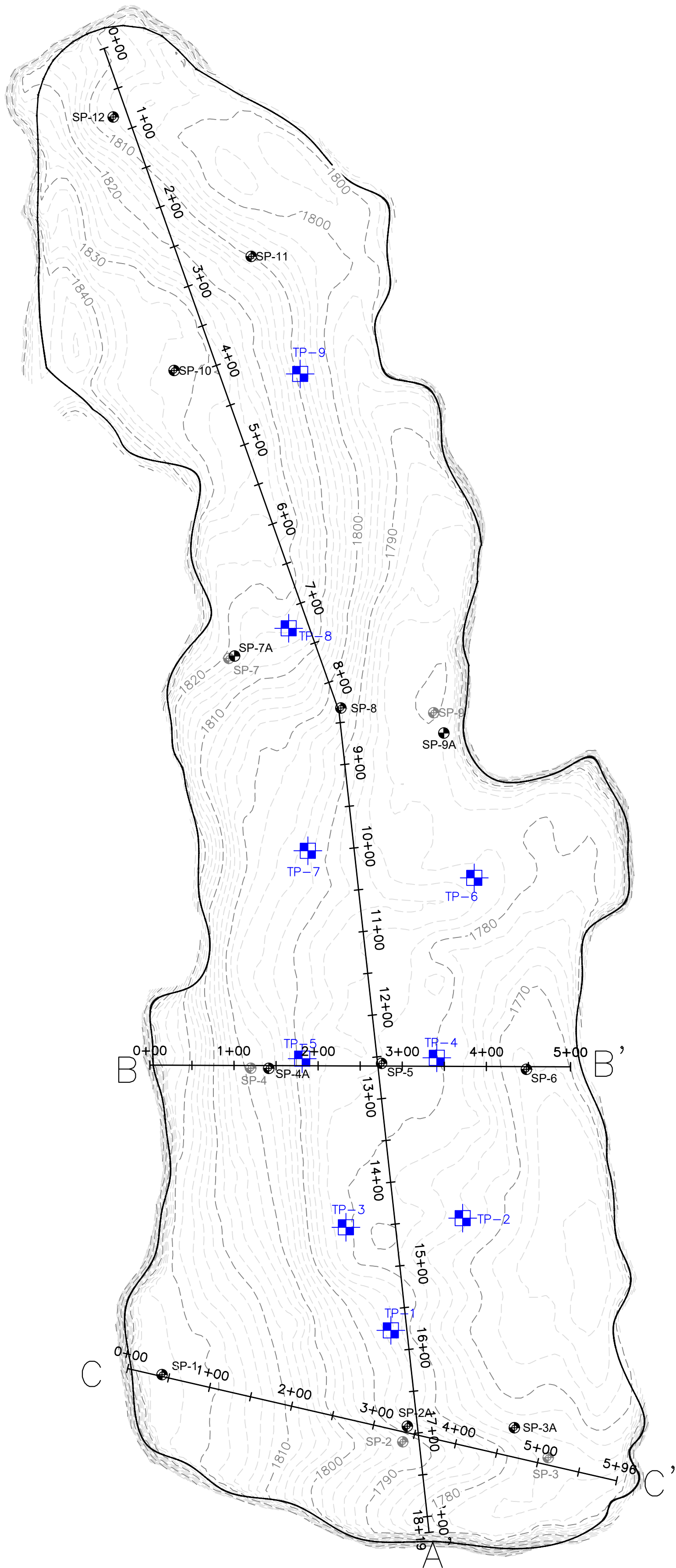


- LEGEND
- MAJOR CONTOURS (EVERY 10')
 - MINOR CONTOURS (EVERY 2')
 - APPROXIMATE SIDEWALL LOCATION
 - SP-8 SETTLEMENT PLATE
 - SP-9 DECOMMISSIONED SETTLEMENT PLATE
 - TP-3 TEMPERATURE MONITORING PROBE

- NOTES:
- GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON APRIL 8, 2026 BY SCS ENGINEERS.
 - ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FLOOD PLAIN DETERMINATION.
 - THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD-83 (2011).
 - THE VERTICAL DATUM IS BASED UPON NAVD-88.

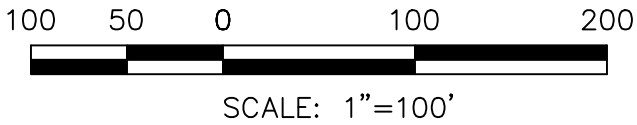


CLIENT		CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY		APRIL 2026		NO.		REVISION		DATE	
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 18521 MIDLOTHIAN TPK., MIDLOTHIAN, VA 23113 PH. (804) 378-7440 FAX. (804) 378-7433		2655 VALLEY DRIVE		LANDFILL TOPOGRAPHY		△					
		BRISTOL, VIRGINIA 24201		PROJECT TITLE		△					
				MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588		△					
CADD FILE: SURF1 COMP		PROJ. NO. 02218208.05		O/A R/W BY: SFB		CHK. BY: C.J.W.		APP. BY: C.J.W.			
DATE: 8/3/2026		DWG. BY: SFB		CHK. BY: C.J.W.		APP. BY: C.J.W.					
SCALE:		SRB		C.J.W.		C.J.W.					
DRAWING NO.											
2											

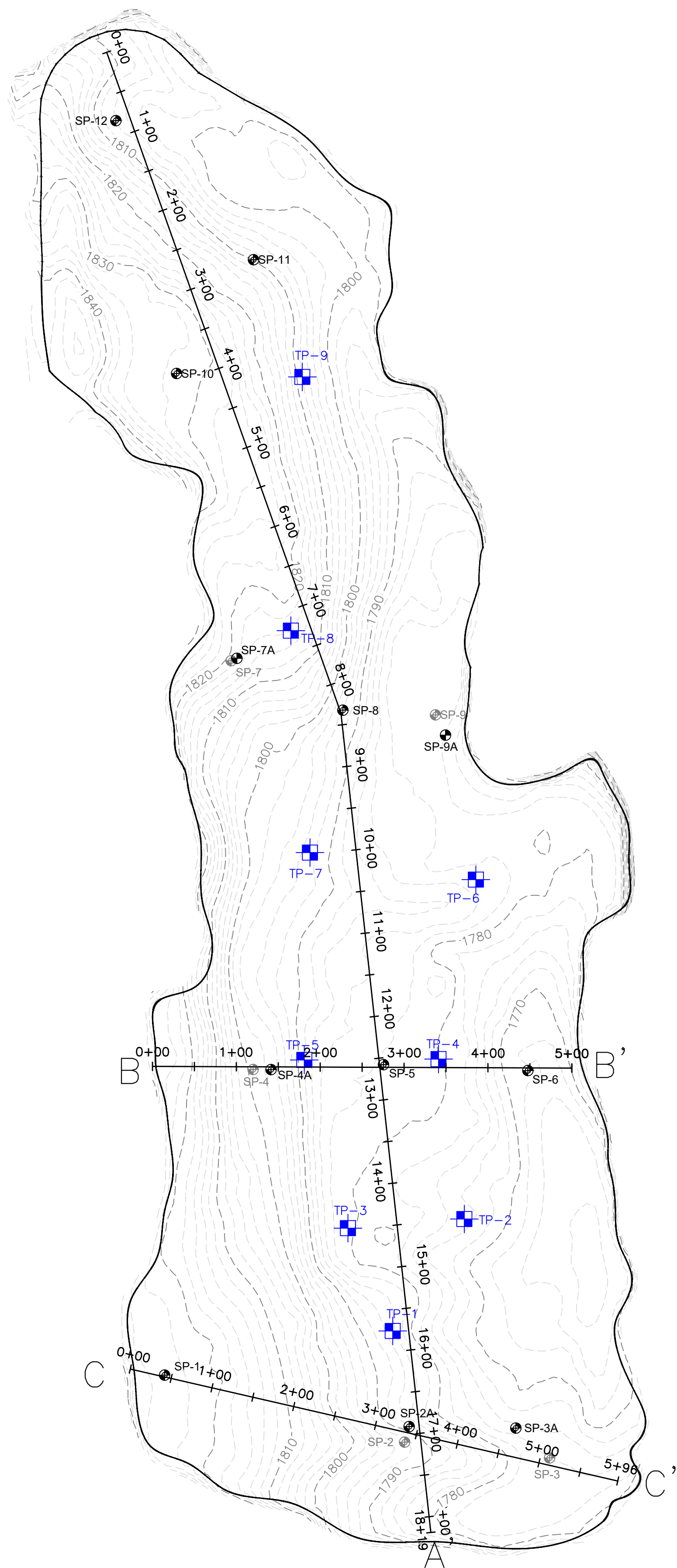


- LEGEND
- MAJOR CONTOURS (EVERY 10')
 - MINOR CONTOURS (EVERY 2')
 - APPROXIMATE SIDEWALL LOCATION
 - SP-8 SETTLEMENT PLATE
 - SP-9 DECOMMISSIONED SETTLEMENT PLATE
 - TP-3 TEMPERATURE MONITORING PROBE

- NOTES:
- GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON JUNE 17, 2026 BY SCS ENGINEERS.
 - ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FLOOD PLAIN DETERMINATION.
 - THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD-83 (2011).
 - THE VERTICAL DATUM IS BASED UPON NAVD-88.



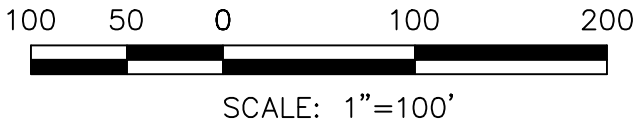
CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY		JUNE 2026		NO.		REVISION		DATE	
2655 VALLEY DRIVE		LANDFILL TOPOGRAPHY		△					
BRISTOL, VIRGINIA 24201		PROJECT TITLE		△					
		MONTHLY TOPOGRAPHY ANALYSIS		△					
		SOLID WASTE PERMIT #588		△					
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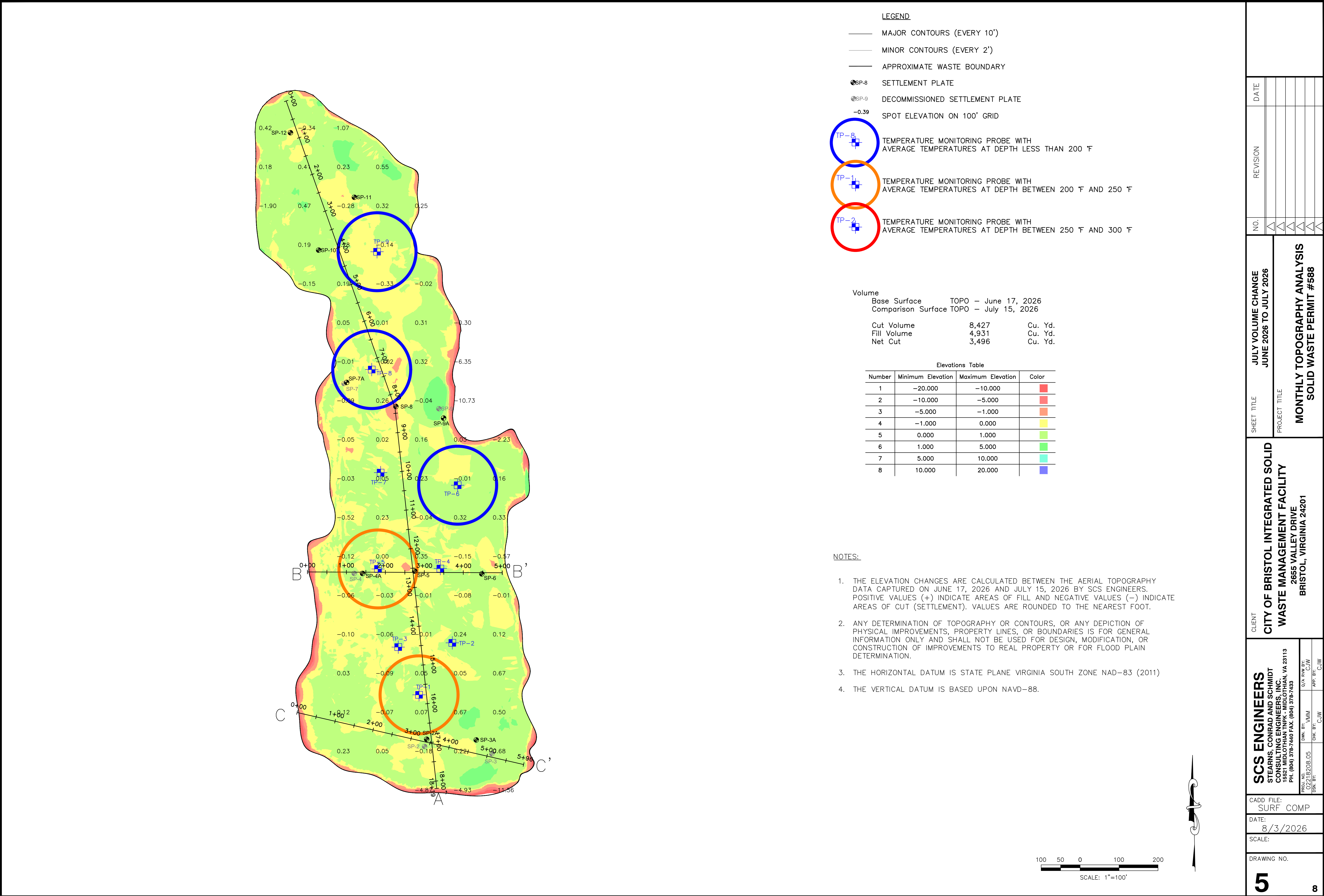
- LEGEND**
- MAJOR CONTOURS (EVERY 10')
 - MINOR CONTOURS (EVERY 2')
 - APPROXIMATE SIDEWALL LOCATION
 - SETTLEMENT PLATE
 - DECOMMISSIONED SETTLEMENT PLATE
 - TEMPERATURE MONITORING PROBE

NOTES:

- GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON JULY 15, 2026 BY SCS ENGINEERS.
- ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FLOOD PLAIN DETERMINATION.
- THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD-83 (2011).
- THE VERTICAL DATUM IS BASED UPON NAVD-88.



SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 1523 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113 PH. (804) 378-7440 FAX. (804) 378-7433		CLIENT CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY 2655 VALLEY DRIVE BRISTOL, VIRGINIA 24201		JULY 2026		NO.	REVISION	DATE	
				LANDFILL TOPOGRAPHY					
				PROJECT TITLE					
				MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588					
PROJ. NO. 2208.05 DWN. BY: C.J.W. CHK. BY: C.J.W. O/A RW BY: C.J.W. APP. BY: C.J.W.									
CADD FILE: SURF COMP		DATE: 8/3/2026		SCALE:		DRAWING NO.		4	
								8	



LEGEND

- MAJOR CONTOURS (EVERY 10')
- MINOR CONTOURS (EVERY 2')
- APPROXIMATE WASTE BOUNDARY
- SP-8 SETTLEMENT PLATE
- SP-9 DECOMMISSIONED SETTLEMENT PLATE
- 0.39 SPOT ELEVATION ON 100' GRID
- TP-8 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH LESS THAN 200 °F
- TP-1 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH BETWEEN 200 °F AND 250 °F
- TP-2 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH BETWEEN 250 °F AND 300 °F

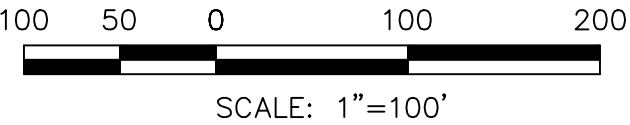
Volume

Base Surface	TOPO	- June 17, 2026
Comparison Surface	TOPO	- July 15, 2026

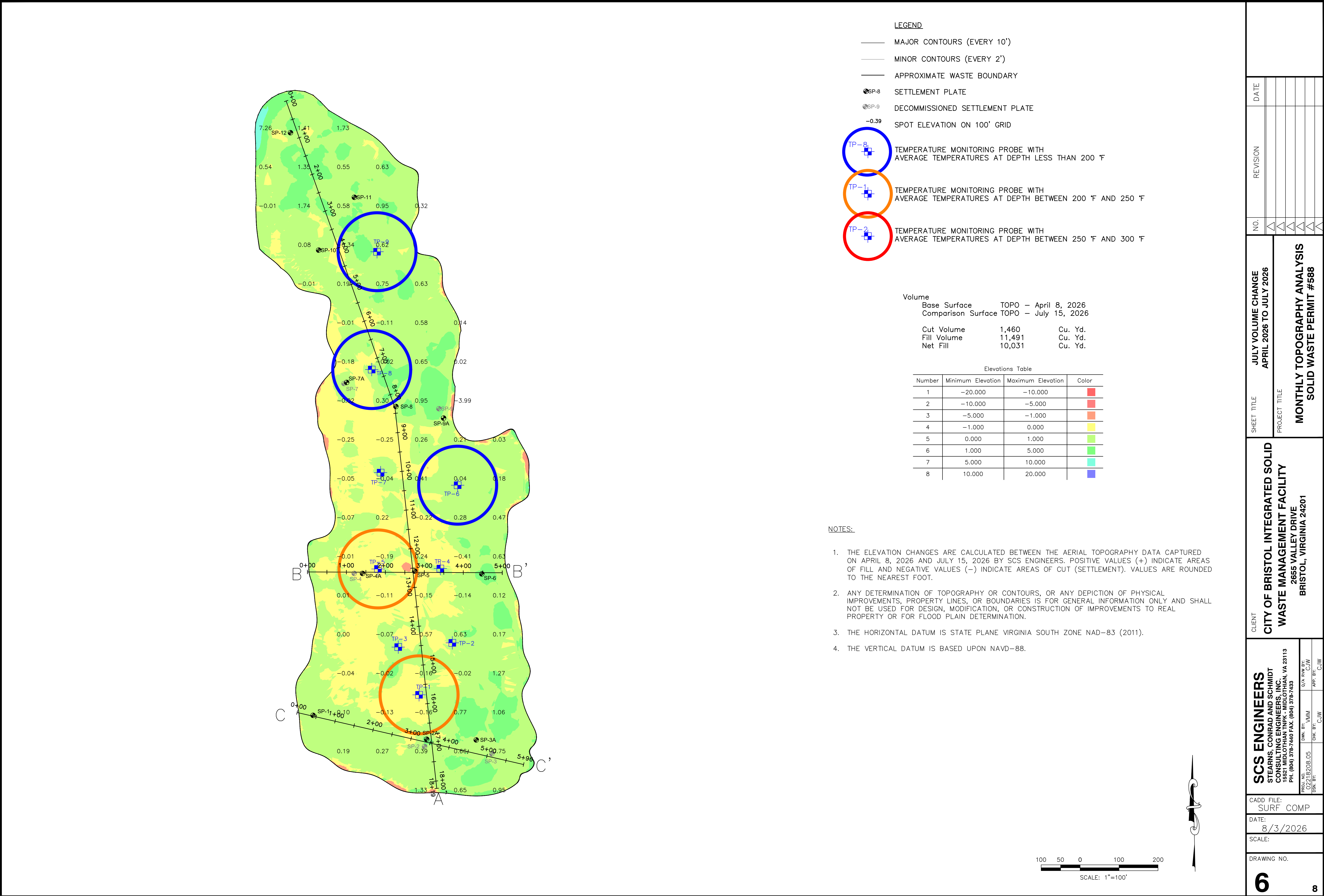
Cut Volume	8,427	Cu. Yd.
Fill Volume	4,931	Cu. Yd.
Net Cut	3,496	Cu. Yd.

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-20.000	-10.000	
2	-10.000	-5.000	
3	-5.000	-1.000	
4	-1.000	0.000	
5	0.000	1.000	
6	1.000	5.000	
7	5.000	10.000	
8	10.000	20.000	

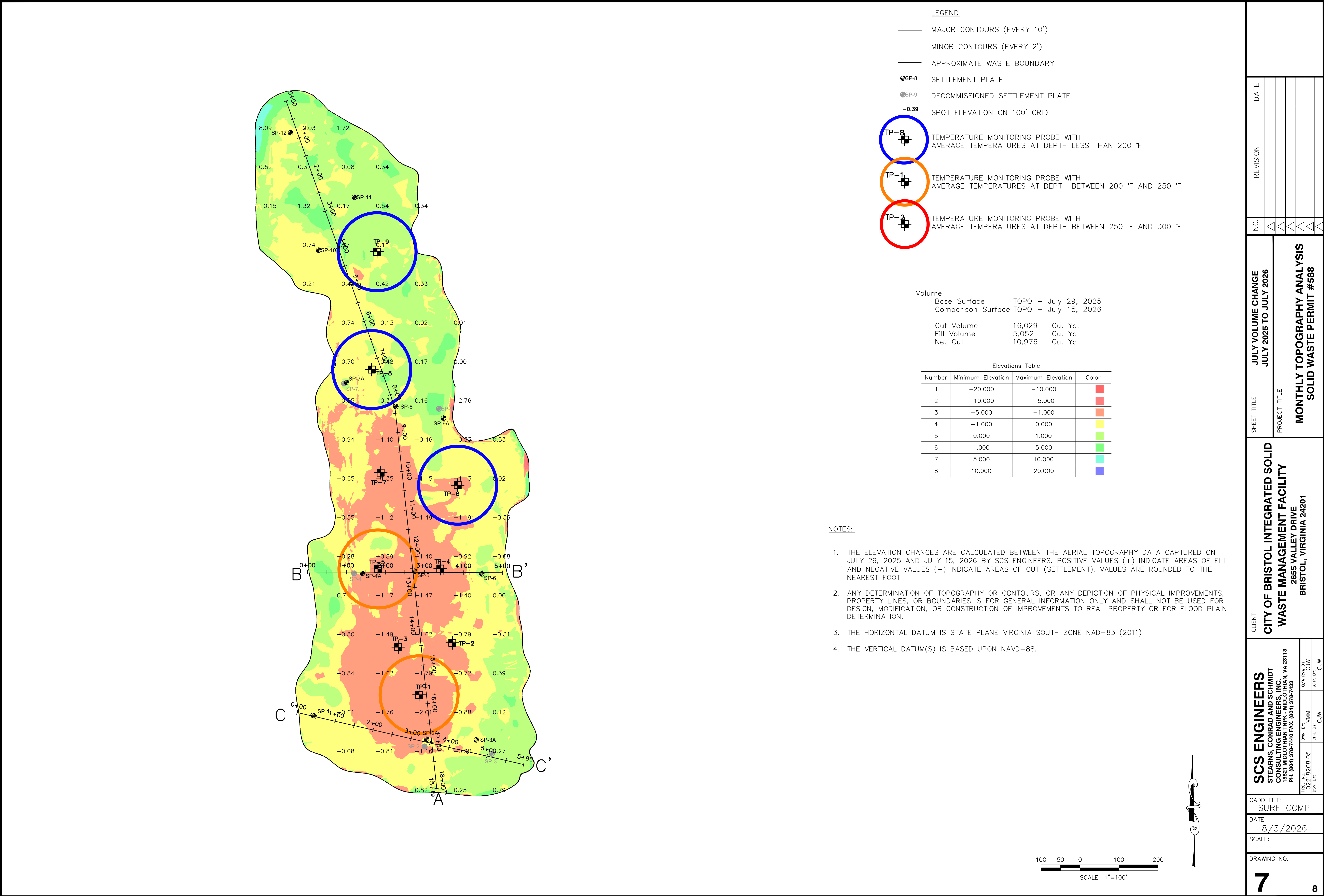
- NOTES:
- THE ELEVATION CHANGES ARE CALCULATED BETWEEN THE AERIAL TOPOGRAPHY DATA CAPTURED ON JUNE 17, 2026 AND JULY 15, 2026 BY SCS ENGINEERS. POSITIVE VALUES (+) INDICATE AREAS OF FILL AND NEGATIVE VALUES (-) INDICATE AREAS OF CUT (SETTLEMENT). VALUES ARE ROUNDED TO THE NEAREST FOOT.
 - ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FOR FLOOD PLAIN DETERMINATION.
 - THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD-83 (2011)
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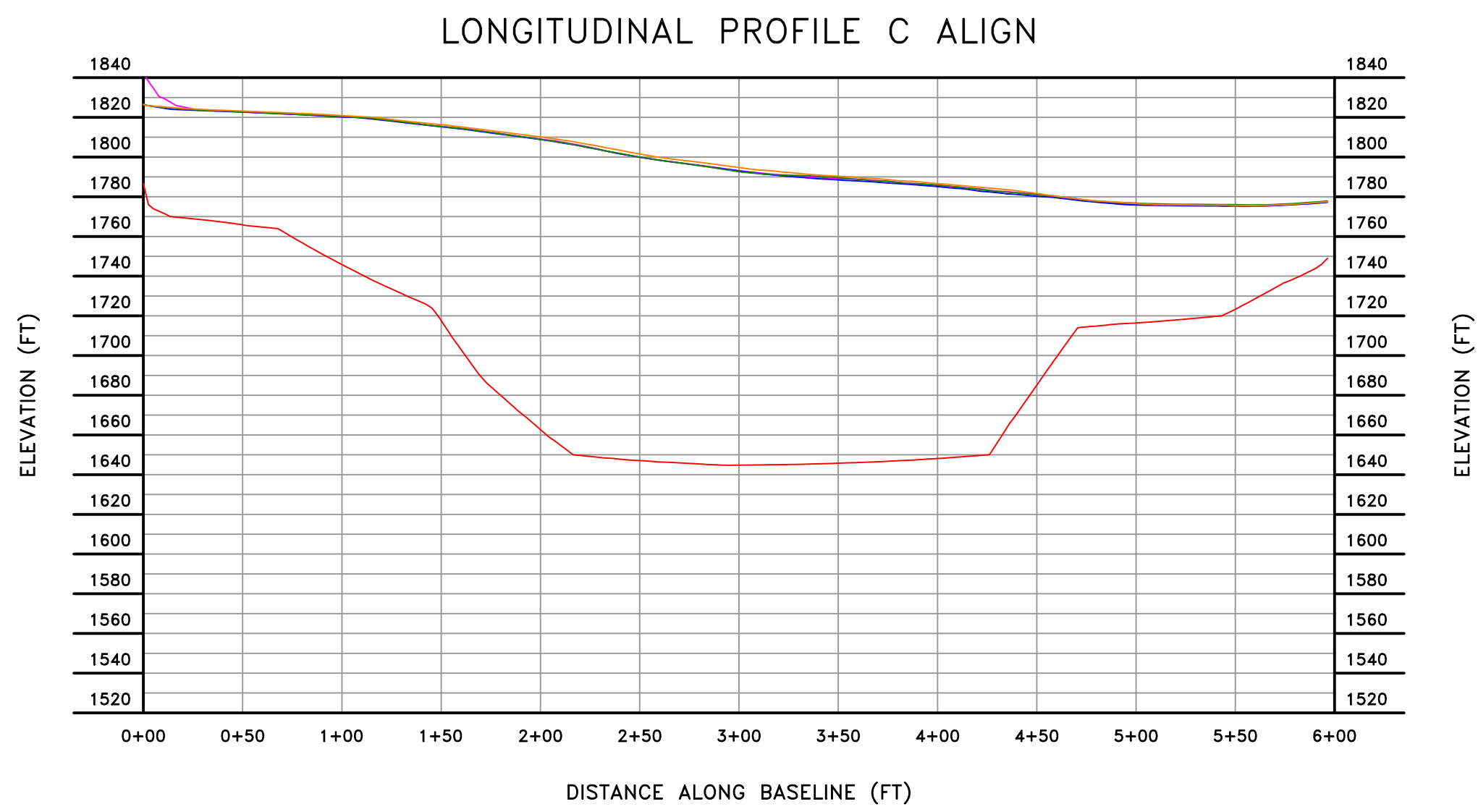
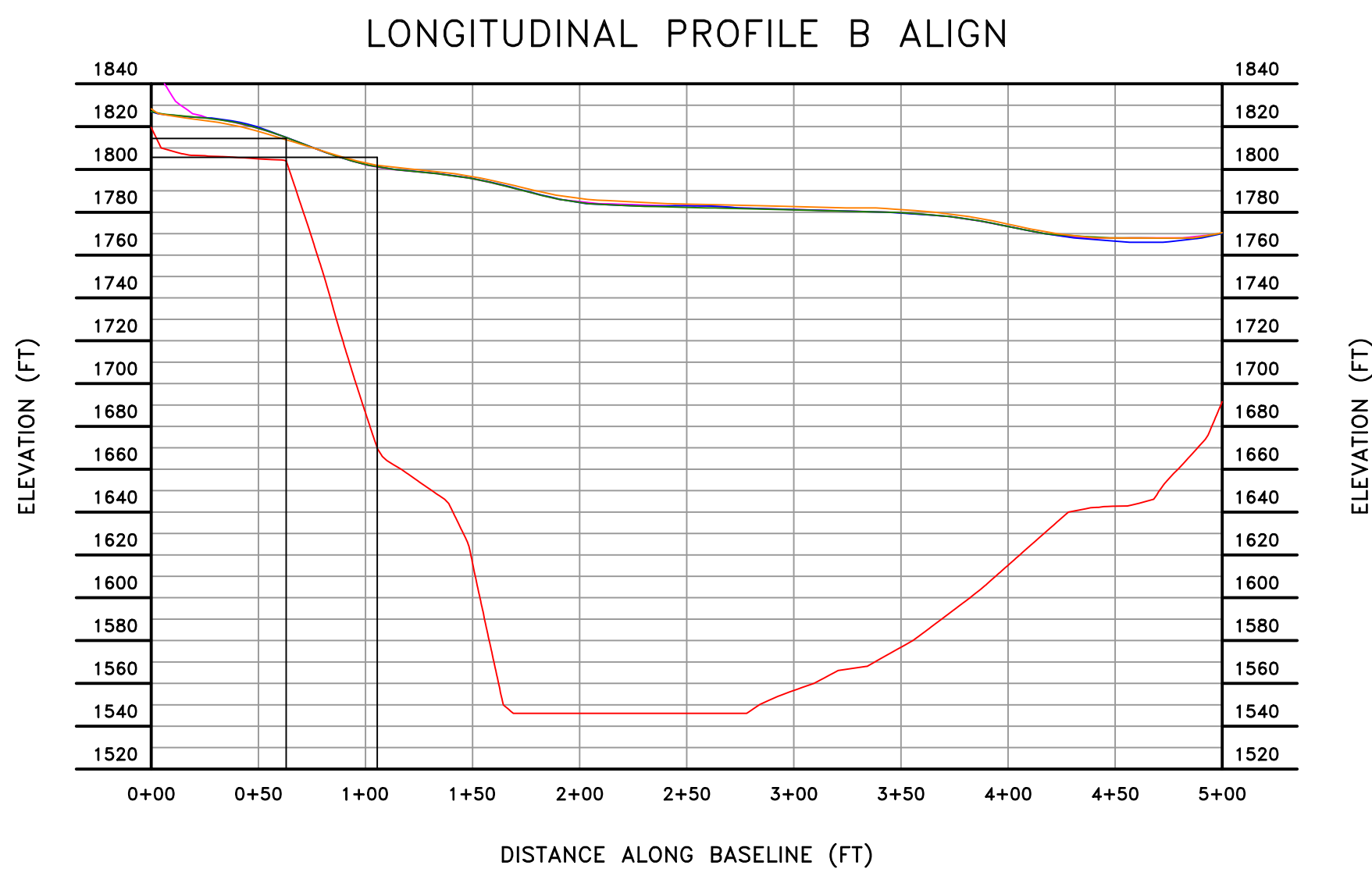
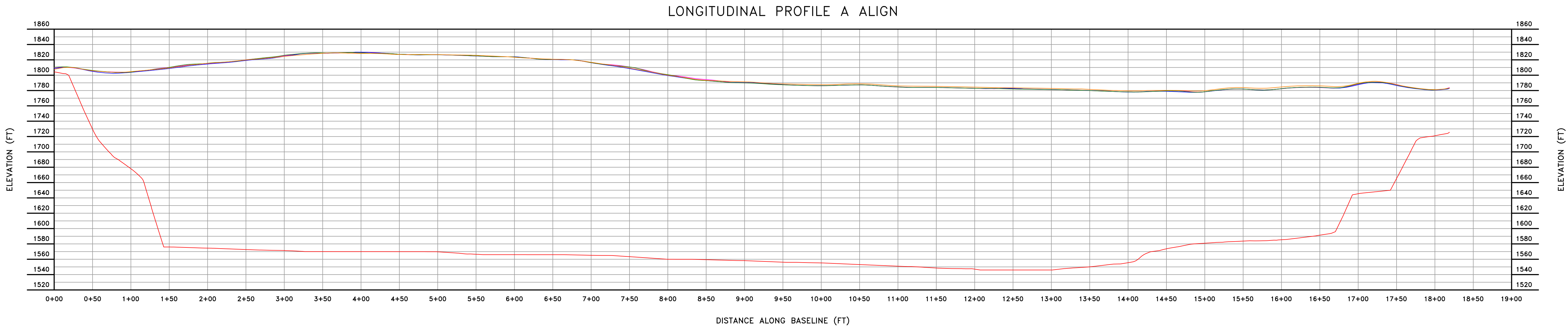


CLIENT	SHEET TITLE	JULY VOLUME CHANGE JUNE 2026 TO JULY 2026	NO.	REVISION	DATE
CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY 2655 VALLEY DRIVE BRISTOL, VIRGINIA 24201	PROJECT TITLE	MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588	NO.	REVISION	DATE
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 15521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113 PH: (804) 378-7440 FAX: (804) 378-7433	CADD FILE: SURF COMP	DATE: 8/3/2026	SCALE:	DRAWING NO.	8



SHEET TITLE	JULY VOLUME CHANGE APRIL 2026 TO JULY 2026	PROJECT TITLE MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588	DATE							
			REVISION							
			NO.	1	2	3	4	5	6	7
CLIENT	CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY 2655 VALLEY DRIVE BRISTOL, VIRGINIA 24201		SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 1523 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113 PH: (804) 378-7440 FAX: (804) 378-7433		PROJ. NO. 220208.05 DATE: 8/3/2026		DWN. BY: JAW CHK. BY: C.JW		O/A RW BY: C.JW APP. BY: C.JW	
CADD FILE: SURF COMP		DATE: 8/3/2026		SCALE:		DRAWING NO. 6		8		





- LEGEND**
- BOTTOM LINER ELEVATION
 - JULY 2025 TOPO
 - APRIL 2026 TOPO
 - JUNE 2026 TOPO
 - JULY 2026 TOPO

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 15521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113 PH. (804) 378-7440 FAX. (804) 378-7433 CADD FILE: SURF COMP DATE: 8/3/2026 SCALE:		CLIENT CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY 2655 VALLEY DRIVE BRISTOL, VIRGINIA 24201 SHEET TITLE PROFILES PROJECT TITLE MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588		NO. REVISION DATE	
PROJ. NO. 2208.05 DATE: 8/3/2026 DRAWN BY: JWM CHECKED BY: C.JW APPR. BY: C.JW					
DRAWING NO.					
8					

Appendix F

Field Logs (July 2026)
Lab Report (July 2026)
Historical LFG-EW Leachate Monitoring Results Summary
Time-Series Plots

City of Bristol SWP 588 Landfill
Dual Phase LFG-EW Liquid Level Measurement Log

Date	7/14-15/26														
SCS Personnel	Field Personnel:			L. Nelson, L. Culhane			Checked By: L. Howard and J. Robb								
Location ID	Date	Time	Casing Stickup (ft)	Depth to Liquid (ft)	Prior Depth to Liquid (ft)	Cycle Count	Prior Cycle Count	Well Casing Depth (ft)	Pump Depth (ft)	Liquid Column Thickness	Pump (Y/N)	Pump PSI	Sample Collected	Check/Photo	Comments
PUMP INSTALLED															
EW-49	7/14/2026	15:45	4.07	68.24	71.81	170774	109721	96.15	87	27.91	Y	70	N		
EW-50	7/15/2026	9:26	3.94	43.51	51.37	1737378	1712121	77.70	83	34.19	Y	100	N		
EW-54	7/14/2026	15:12	3.53	58.45	37.34	---	---	82.70	---	24.25	Y	100	Y		
EW-59	7/14/2026	13:39	4.60	60.08	55.78	4145232	3832820	73.40	61	13.32	Y	105	Y		
EW-65	7/15/2026	10:05	3.37	49.34	48.95	256288	167437	88.40	70	39.06	Y	110	N		
EW-66	7/15/2026	14:17	2.80	---	---	1308325	142047	---	---	---	Y	120	Y		
EW-67	7/15/2026	8:54	2.00	86.20	42.03	---	---	107.75	---	21.55	Y	115	Y		
EW-68	7/15/2026	9:17	2.22	---	---	2780910	2669461	73.57	60	---	Y	100	Y		
EW-78	7/15/2026	11:12	2.94	46.44	44.07	591908	362996	57.00	47	10.56	Y	40	N		
EW-85	7/15/2026	9:39	5.23	58.63	62.44	400472	372033	91.00	78	32.37	Y	100	N		
EW-98	7/15/2026	14:00	3.80	---	---	3435249	2835732	51.00	46	---	Y	90	Y		
NO PUMP															
EW-56	7/14/2026	13:04	3.86	16.64	17.72	---	---	42.71	---	26.07	N	---	---		
EW-61	7/15/2026	9:34	3.63	65.54	74.7	348843	257484	87.80	75	22.26	N	---	N		
EW-69	7/15/2026	10:39	4.40	92.38	93.48	---	---	98.00	---	5.62	N	---	---		
EW-70	7/15/2026	10:49		63.87	64.46	---	---	71.00	---	7.13	N	---	---		In Water
EW-73	7/15/2026	11:03	2.91	106.40	106.97	---	---	116.00	---	9.60	N	---	---		
EW-76	7/15/2026	10:31	3.79	106.60	107.63	---	---	127.00	---	20.40	N	---	---		
EW-80	7/15/2026	10:12	3.17	121.28	136.61	---	---	149.00	---	27.72	N	---	---		
EW-82	7/15/2026	11:16	4.20	118.22	123.97	---	---	163.26	---	45.04	N	---	---		

City of Bristol SWP 588 Landfill
Dual Phase LFG-EW Liquid Level Measurement Log

Date	7/14-15/26														
SCS Personnel	Field Personnel:			L. Nelson, L. Culhane			Checked By: L. Howard and J. Robb								
Location ID	Date	Time	Casing Stickup (ft)	Depth to Liquid (ft)	Prior Depth to Liquid (ft)	Cycle Count	Prior Cycle Count	Well Casing Depth (ft)	Pump Depth (ft)	Liquid Column Thickness	Pump (Y/N)	Pump PSI	Sample Collected	Check/Photo	Comments
NO PUMP															
EW-84	7/15/2026	9:56	4.12	79.91	79.15	---	---	130.56	---	50.65	N	---	---		
EW-91	7/15/2026	9:12	5.87	---	50.18	---	---	137.70	---	---	N	---	---		Too Tall to read
EW-92	7/15/2026	9:11	7.85	---	---	---	---	112.99	---	---	N	---	---		Too Tall to read
EW-95	7/14/2026	15:27	3.00	55.01	57.28	---	---	68.00	---	12.99	N	---	---		
EW-97	7/14/2026	15:25	8.00	---	---	---	---	144.50	---	---	N	---	---		Too Tall to read
EW-99	7/14/2026	12:51	4.08	50.61	57.4	---	---	65.00	---	14.39	N	---	---		
MEASURE CASING STICKUP AND CYCLE COUNTER ONLY (PUMP INSTALLED) ¹															
EW-55	7/15/2026	9:10	3.04	---	---	258889	73387	90.40	90	---	Y	110	Y		
EW-94	7/15/2026	9:08	3.13	---	---	2040618	1946997	50.00	38	---	Y	110	Y		
MEASURE CASING STICKUP AND CYCLE COUNTER ONLY (NO PUMP) ¹															
EW-36A	7/15/2026	9:32	3.64	---	---	--	478994	180.00	135	---	N	---	N		
EW-53	7/15/2026	9:05	12.73	---	---	---	---	100.70	77	---	N	---	---		
EW-81	7/15/2026	10:21	4.80	---	---	---	108332	151.56	125	---	N	---	N		
EW-83	7/15/2026	10:10	4.20	---	---	---	---	167.04	145	---	N	---	---		
EW-86 ²	7/14/2026	15:42	3.19	---	---	---	---	153.00	---	---	N	---	---		
EW-87	7/15/2026	9:18	4.80	---	---	---	---	149.57	110	---	N	---	---		

City of Bristol SWP 588 Landfill
Dual Phase LFG-EW Liquid Level Measurement Log

Date	7/14-15/26														
SCS Personnel	Field Personnel:			L. Nelson, L. Culhane			Checked By: L. Howard and J. Robb								
Location ID	Date	Time	Casing Stickup (ft)	Depth to Liquid (ft)	Prior Depth to Liquid (ft)	Cycle Count	Prior Cycle Count	Well Casing Depth (ft)	Pump Depth (ft)	Liquid Column Thickness	Pump (Y/N)	Pump PSI	Sample Collected	Check/ Photo	Comments
MEASURE CASING STICKUP AND CYCLE COUNTER ONLY (PUMP INSTALLED) ²															
EW-62	7/15/2026	10:35	5.20	---	---	264515	373827	110.60	91.5	---	Y	100	---		
MEASURE CASING STICKUP AND CYCLE COUNTER ONLY (NO PUMP) ²															
EW-52	7/15/2026	9:15	2.69	---	---	---	1272927	98.70	80	---	N	---	---		
EW-60	7/15/2026	9:20	3.48	---	---	464896	218245	81.80	72.5	---	N	---	---		
EW-88	7/15/2026	9:24	4.20	---	---	---	470793	100.00	61	---	N	---	---		
EW-89	7/15/2026	9:22	3.51	---	---	---	835523	84.57	70	---	N	---	---		Well Head Swapped, Currently Labeled EW-87
EW-96	7/15/2026	---	7.05	---	---	---	---	164.35	145	---	N	---	---		
DO NOT APPROACH															
EW-33B	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SSO Concerns - Do not approach
EW-63	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SSO Concerns - Do not approach
EW-64	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SSO Concerns - Do not approach
EW-77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SSO Concerns - Do not approach
EW-79	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SSO Concerns - Do not approach
EW-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SSO Concerns - Do not approach

--- = not applicable or available

CO = Carbon monoxide

ft = feet

LEL = Lower Explosive Limit

1 = Not Measured as gauging equipment has historically become stuck in well.

2 = Not Measured as pump is shut off and intended to be pulled for maintenance/replacement or has been removed for maintenance or replacement.

Prior Depth to Liquid (ft) = last monthly event a liquid level was collected, not limited to previous calendar month.

O2 = Oxygen

ppm = parts per million

SSO = Subsurface oxygen event

VOC = Total Volatile Organic Compounds

City of Bristol SWP 588 Landfill
Dual Phase LFG-EW Sample Collection Log

Location ID	Sample Date	Sample Time	Temperature(°C)	pH (s.u.)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Observations
EW-54	7/14/2026	14:54	75.50	5.38	33.156	0.25	-81.10	13.64	Amber Brown
EW-55	7/15/2026	8:00	78.10	5.42	46.494	0.26	-42.30	259.10	Dark Brown, muddy
EW-59	7/14/2026	13:16	67.80	5.77	25.466	0.11	-93.00	18.32	Brownish Black
EW-66	7/14/2026	14:22	75.60	5.46	43.801	0.07	-111.90	4.91	Amber Brown
EW-67	7/15/2026	7:45	76.70	5.40	44.452	0.15	-105.80	9.42	Amber Brown
EW-68	7/15/2026	8:34	72.50	5.93	33.444	0.10	-114.20	37.42	Amber Brown
EW-94	7/15/2026	8:15	60.80	6.80	11.469	1.06	-35.00	444.20	Med Brown, Slightly Translucent
EW-98	7/14/2026	0:58	28.40	6.28	2.164	2.21	16.40	67.89	Cloudy, Suspended Solids
SCS Personnel		Sampler: L. Nelson, L. Culhane				Checked By: L. Howard and J. Robb			
Samples Shipped By: Courier						Laboratory: Enthalpy Analytical			

°C = degrees Celsius

mg/L = milligrams per liter

mV = milliVolts

NTU = Nephelometric Turbidity Unit

s.u. = Standard Unit

mS/cm = milliSiemens per centimeter



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 26G1507

Client Name: SCS Engineers - Winchester
296 Victory Road
Winchester, VA 22602

Date Received: July 15, 2026 17:12
Date Issued: July 29, 2026 17:49
Project Number: [none]
Purchase Order:

Submitted To: Jennifer Robb

Client Site I.D.: Bristol LFG - EW Monthly

Enclosed are the results of analyses for samples received by the laboratory on 07/15/2026 17:12. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Cedric Nelson
Group Leader

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Analysis Detects Report

Client Name: SCS Engineers - Winchester
 Client Site ID: Bristol LFG - EW Monthly
 Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Laboratory Sample ID: 26G1507-01

Client Sample ID: EW-54

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	01	SW6020B	150		1.5	4.0	10	ug/L
Barium	01	SW6020B	2560		5.70	50.0	10	ug/L
Chromium	01	SW6020B	260		3.20	10.0	10	ug/L
Lead	01	SW6020B	16		2.5	10	10	ug/L
Mercury	01	SW6020B	9.07		0.270	2.00	10	ug/L
Nickel	01	SW6020B	69.30		2.500	10.00	10	ug/L
Selenium	01	SW6020B	2.86	J	1.80	10.0	10	ug/L
Zinc	01	SW6020B	916		12.1	50.0	10	ug/L
2-Butanone (MEK)	01	SW8260D	12500		97.0	100	100	ug/L
Acetone	01RE1	SW8260D	30800		1380	2000	500	ug/L
Benzene	01	SW8260D	395		13.9	40.0	100	ug/L
Ethylbenzene	01	SW8260D	16.0	J	15.1	40.0	100	ug/L
Tetrahydrofuran	01	SW8260D	4070		75.4	100	100	ug/L
Toluene	01	SW8260D	22.0	J	16.0	40.0	100	ug/L
Acetic Acid	01	In house	4960		71.4	500	1000	mg/L
Butyric Acid	01	In house	1570		70.3	500	1000	mg/L
Lactic Acid	01	In house	1500		55.7	500	1000	mg/L
Propionic Acid	01	In house	1110		57.3	500	1000	mg/L
Pyruvic Acid	01	In house	144	J	88.9	500	1000	mg/L
Ammonia as N	01	EPA350.1 R2.0	911		60.0	100	1000	mg/L
BOD	01	SM5210B-2016	28600		0.2	2.0	1	mg/L
COD	01	SM5220D-2011	51100		6300	10000	1000	mg/L
TKN as N	01	EPA351.2 R2.0	1260		45.9	50.0	1	mg/L
Total Recoverable Phenolics	01	SW9065	31.7		1.54	2.50	50	mg/L

Analysis Detects Report

Client Name: SCS Engineers - Winchester
 Client Site ID: Bristol LFG - EW Monthly
 Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Laboratory Sample ID: 26G1507-02

Client Sample ID: EW-55

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	02RE1	SW6020B	110		1.5	4.0	10	ug/L
Barium	02RE1	SW6020B	3020		5.70	50.0	10	ug/L
Chromium	02RE1	SW6020B	252		3.20	10.0	10	ug/L
Copper	02RE1	SW6020B	4.81	J	3.60	10.0	10	ug/L
Lead	02	SW6020B	22		0.25	1.0	1	ug/L
Mercury	02	SW6020B	3.74		0.0270	0.200	1	ug/L
Nickel	02RE1	SW6020B	26.99		2.500	10.00	10	ug/L
Selenium	02RE1	SW6020B	3.49	J	1.80	10.0	10	ug/L
Zinc	02RE1	SW6020B	509		12.1	50.0	10	ug/L
2-Butanone (MEK)	02	SW8260D	1790		97.0	100	100	ug/L
Acetone	02RE2	SW8260D	24500		277	400	100	ug/L
Benzene	02	SW8260D	30.0	J	13.9	40.0	100	ug/L
Tetrahydrofuran	02	SW8260D	655		75.4	100	100	ug/L
Acetic Acid	02	In house	7640		71.4	500	1000	mg/L
Butyric Acid	02	In house	2100		70.3	500	1000	mg/L
Lactic Acid	02	In house	1410		55.7	500	1000	mg/L
Propionic Acid	02	In house	2630		57.3	500	1000	mg/L
Pyruvic Acid	02	In house	179	J	88.9	500	1000	mg/L
Ammonia as N	02	EPA350.1 R2.0	1480		60.0	100	1000	mg/L
BOD	02	SM5210B-2016	>35157.00		0.2	2.0	1	mg/L
COD	02	SM5220D-2011	64000		6300	10000	1000	mg/L
TKN as N	02	EPA351.2 R2.0	2060		45.9	50.0	1	mg/L
Total Recoverable Phenolics	02	SW9065	56.4		6.18	10.0	200	mg/L

Analysis Detects Report

Client Name: SCS Engineers - Winchester
 Client Site ID: Bristol LFG - EW Monthly
 Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Laboratory Sample ID: 26G1507-03

Client Sample ID: EW-59

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	03RE1	SW6020B	260		1.5	4.0	10	ug/L
Barium	03RE1	SW6020B	1550		5.70	50.0	10	ug/L
Chromium	03RE1	SW6020B	168		3.20	10.0	10	ug/L
Lead	03	SW6020B	1.2		0.25	1.0	1	ug/L
Mercury	03	SW6020B	0.593		0.0270	0.200	1	ug/L
Nickel	03RE1	SW6020B	28.21		2.500	10.00	10	ug/L
Selenium	03RE1	SW6020B	3.24	J	1.80	10.0	10	ug/L
Zinc	03RE1	SW6020B	78.4		12.1	50.0	10	ug/L
2-Butanone (MEK)	03	SW8260D	26900		97.0	100	100	ug/L
Acetone	03RE1	SW8260D	7300		692	1000	250	ug/L
Benzene	03	SW8260D	795		13.9	40.0	100	ug/L
Ethylbenzene	03	SW8260D	44.0		15.1	40.0	100	ug/L
Tetrahydrofuran	03	SW8260D	6460		75.4	100	100	ug/L
Toluene	03	SW8260D	45.0		16.0	40.0	100	ug/L
Xylenes, Total	03	SW8260D	75.0	J	43.8	300	100	ug/L
Acetic Acid	03	In house	4440		71.4	500	1000	mg/L
Butyric Acid	03	In house	1050		70.3	500	1000	mg/L
Lactic Acid	03	In house	566		55.7	500	1000	mg/L
Propionic Acid	03	In house	1360		57.3	500	1000	mg/L
Pyruvic Acid	03	In house	157	J	88.9	500	1000	mg/L
Ammonia as N	03	EPA350.1 R2.0	1880		120	200	2000	mg/L
BOD	03	SM5210B-2016	22400		0.2	2.0	1	mg/L
COD	03	SM5220D-2011	36700		3150	5000	500	mg/L
TKN as N	03	EPA351.2 R2.0	2000		45.9	50.0	1	mg/L
Total Recoverable Phenolics	03	SW9065	45.4		3.09	5.00	100	mg/L

Analysis Detects Report

Client Name: SCS Engineers - Winchester
 Client Site ID: Bristol LFG - EW Monthly
 Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Laboratory Sample ID: 26G1507-04

Client Sample ID: EW-66

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	04	SW6020B	150		1.5	4.0	10	ug/L
Barium	04	SW6020B	2480		5.70	50.0	10	ug/L
Chromium	04	SW6020B	364		3.20	10.0	10	ug/L
Lead	04	SW6020B	8.6	J	2.5	10	10	ug/L
Mercury	04	SW6020B	0.750	J	0.270	2.00	10	ug/L
Nickel	04	SW6020B	61.29		2.500	10.00	10	ug/L
Selenium	04	SW6020B	3.50	J	1.80	10.0	10	ug/L
Silver	04	SW6020B	0.144	J	0.110	1.00	10	ug/L
Zinc	04	SW6020B	643		12.1	50.0	10	ug/L
2-Butanone (MEK)	04	SW8260D	9660		97.0	100	100	ug/L
Acetone	04RE1	SW8260D	32700		1380	2000	500	ug/L
Benzene	04	SW8260D	283		13.9	40.0	100	ug/L
Ethylbenzene	04	SW8260D	24.0	J	15.1	40.0	100	ug/L
Tetrahydrofuran	04	SW8260D	3380		75.4	100	100	ug/L
Toluene	04	SW8260D	27.0	J	16.0	40.0	100	ug/L
Xylenes, Total	04	SW8260D	52.0	J	43.8	300	100	ug/L
Acetic Acid	04	In house	7660		71.4	500	1000	mg/L
Butyric Acid	04	In house	1900		70.3	500	1000	mg/L
Lactic Acid	04	In house	1610		55.7	500	1000	mg/L
Propionic Acid	04	In house	2290		57.3	500	1000	mg/L
Pyruvic Acid	04	In house	176	J	88.9	500	1000	mg/L
Ammonia as N	04	EPA350.1 R2.0	1800		60.0	100	1000	mg/L
BOD	04	SM5210B-2016	>34857		0.2	2.0	1	mg/L
COD	04	SM5220D-2011	65000		6300	10000	1000	mg/L
TKN as N	04	EPA351.2 R2.0	2310		45.9	50.0	1	mg/L
Total Recoverable Phenolics	04	SW9065	61.4		3.09	5.00	100	mg/L

Analysis Detects Report

Client Name: SCS Engineers - Winchester
 Client Site ID: Bristol LFG - EW Monthly
 Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Laboratory Sample ID: 26G1507-05

Client Sample ID: EW-67

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	05	SW6020B	160		1.5	4.0	10	ug/L
Barium	05	SW6020B	3100		5.70	50.0	10	ug/L
Cadmium	05	SW6020B	6.77		0.500	4.00	10	ug/L
Chromium	05	SW6020B	342		3.20	10.0	10	ug/L
Copper	05	SW6020B	4.33	J	3.60	10.0	10	ug/L
Lead	05	SW6020B	13		2.5	10	10	ug/L
Mercury	05	SW6020B	6.77		0.270	2.00	10	ug/L
Nickel	05	SW6020B	66.37		2.500	10.00	10	ug/L
Selenium	05	SW6020B	2.95	J	1.80	10.0	10	ug/L
Zinc	05	SW6020B	1160		12.1	50.0	10	ug/L
2-Butanone (MEK)	05	SW8260D	9510		97.0	100	100	ug/L
Acetone	05RE1	SW8260D	26200		1380	2000	500	ug/L
Benzene	05	SW8260D	97.0		13.9	40.0	100	ug/L
Tetrahydrofuran	05	SW8260D	3040		75.4	100	100	ug/L
Acetic Acid	05	In house	7770		71.4	500	1000	mg/L
Butyric Acid	05	In house	2100		70.3	500	1000	mg/L
Lactic Acid	05	In house	1450		55.7	500	1000	mg/L
Propionic Acid	05	In house	2520		57.3	500	1000	mg/L
Pyruvic Acid	05	In house	187	J	88.9	500	1000	mg/L
Ammonia as N	05	EPA350.1 R2.0	1590		60.0	100	1000	mg/L
BOD	05	SM5210B-2016	>35157		0.2	2.0	1	mg/L
COD	05	SM5220D-2011	63700		6300	10000	1000	mg/L
TKN as N	05	EPA351.2 R2.0	2280		45.9	50.0	1	mg/L
Total Recoverable Phenolics	05	SW9065	55.8		3.09	5.00	100	mg/L

Analysis Detects Report

Client Name: SCS Engineers - Winchester
 Client Site ID: Bristol LFG - EW Monthly
 Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Laboratory Sample ID: 26G1507-06

Client Sample ID: EW-68

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	06	SW6020B	310		1.5	4.0	10	ug/L
Barium	06	SW6020B	5130		5.70	50.0	10	ug/L
Cadmium	06	SW6020B	1.12	J	0.500	4.00	10	ug/L
Chromium	06	SW6020B	189		3.20	10.0	10	ug/L
Copper	06	SW6020B	4.01	J	3.60	10.0	10	ug/L
Mercury	06	SW6020B	2.48		0.270	2.00	10	ug/L
Nickel	06	SW6020B	53.62		2.500	10.00	10	ug/L
Selenium	06	SW6020B	3.74	J	1.80	10.0	10	ug/L
Zinc	06	SW6020B	81.7		12.1	50.0	10	ug/L
2-Butanone (MEK)	06	SW8260D	21800		97.0	100	100	ug/L
Acetone	06RE1	SW8260D	71000		1380	2000	500	ug/L
Benzene	06	SW8260D	556		13.9	40.0	100	ug/L
Ethylbenzene	06	SW8260D	53.0		15.1	40.0	100	ug/L
Tetrahydrofuran	06	SW8260D	5570		75.4	100	100	ug/L
Toluene	06	SW8260D	57.0		16.0	40.0	100	ug/L
Xylenes, Total	06	SW8260D	94.0	J	43.8	300	100	ug/L
Acetic Acid	06	In house	4770		71.4	500	1000	mg/L
Butyric Acid	06	In house	894		70.3	500	1000	mg/L
Lactic Acid	06	In house	279	J	55.7	500	1000	mg/L
Propionic Acid	06	In house	1580		57.3	500	1000	mg/L
Pyruvic Acid	06	In house	169	J	88.9	500	1000	mg/L
Ammonia as N	06	EPA350.1 R2.0	2530		120	200	2000	mg/L
BOD	06	SM5210B-2016	27300		0.2	2.0	1	mg/L
COD	06	SM5220D-2011	47100		6300	10000	1000	mg/L
Nitrate+Nitrite as N	06	SM4500-NO3F-2019	0.17	J	0.14	0.20	10	mg/L
TKN as N	06	EPA351.2 R2.0	3400		45.9	50.0	1	mg/L
Total Recoverable Phenolics	06	SW9065	45.4		3.09	5.00	100	mg/L

Analysis Detects Report

Client Name: SCS Engineers - Winchester
 Client Site ID: Bristol LFG - EW Monthly
 Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Laboratory Sample ID: 26G1507-07

Client Sample ID: EW-94

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	07RE1	SW6020B	76		1.5	4.0	10	ug/L
Barium	07RE1	SW6020B	1040		5.70	50.0	10	ug/L
Cadmium	07RE1	SW6020B	10.9		0.500	4.00	10	ug/L
Chromium	07RE1	SW6020B	28.2		3.20	10.0	10	ug/L
Lead	07	SW6020B	1.0		0.25	1.0	1	ug/L
Mercury	07	SW6020B	6.30		0.0270	0.200	1	ug/L
Nickel	07RE1	SW6020B	12.87		2.500	10.00	10	ug/L
Zinc	07RE1	SW6020B	107		12.1	50.0	10	ug/L
2-Butanone (MEK)	07	SW8260D	16700		97.0	100	100	ug/L
Acetone	07RE2	SW8260D	56200		1380	2000	500	ug/L
Benzene	07	SW8260D	150		13.9	40.0	100	ug/L
Tetrahydrofuran	07	SW8260D	5000		75.4	100	100	ug/L
Acetic Acid	07RE1	In house	1090		14.3	100	200	mg/L
Butyric Acid	07	In house	378		7.0	50.0	100	mg/L
Lactic Acid	07	In house	132		5.6	50.0	100	mg/L
Propionic Acid	07	In house	400		5.7	50.0	100	mg/L
Pyruvic Acid	07	In house	25.0	J	8.9	50.0	100	mg/L
Ammonia as N	07	EPA350.1 R2.0	534		120	200	2000	mg/L
BOD	07	SM5210B-2016	9720		0.2	2.0	1	mg/L
COD	07	SM5220D-2011	36700		6300	10000	1000	mg/L
TKN as N	07	EPA351.2 R2.0	545		45.9	50.0	1	mg/L
Total Recoverable Phenolics	07	SW9065	18.8		3.09	5.00	100	mg/L

Analysis Detects Report

Client Name: SCS Engineers - Winchester
 Client Site ID: Bristol LFG - EW Monthly
 Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Laboratory Sample ID: 26G1507-08

Client Sample ID: EW-98

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	08RE1	SW6020B	53		1.5	4.0	10	ug/L
Barium	08RE1	SW6020B	192		5.70	50.0	10	ug/L
Chromium	08RE1	SW6020B	8.73	J	3.20	10.0	10	ug/L
Mercury	08	SW6020B	0.289		0.0270	0.200	1	ug/L
Nickel	08RE1	SW6020B	5.737	J	2.500	10.00	10	ug/L
Zinc	08RE1	SW6020B	23.9	J	12.1	50.0	10	ug/L
2-Butanone (MEK)	08	SW8260D	12500		97.0	100	100	ug/L
Acetone	08RE1	SW8260D	14800		277	400	100	ug/L
Benzene	08	SW8260D	10800		13.9	40.0	100	ug/L
Ethylbenzene	08	SW8260D	1300		15.1	40.0	100	ug/L
Tetrahydrofuran	08	SW8260D	14100		75.4	100	100	ug/L
Toluene	08	SW8260D	880		16.0	40.0	100	ug/L
Xylenes, Total	08	SW8260D	2670		43.8	300	100	ug/L
Acetic Acid	08	In house	157		7.1	50.0	100	mg/L
Butyric Acid	08	In house	77.2		7.0	50.0	100	mg/L
Lactic Acid	08	In house	7.1	J	5.6	50.0	100	mg/L
Propionic Acid	08	In house	55.2		5.7	50.0	100	mg/L
Pyruvic Acid	08	In house	11.6	J	8.9	50.0	100	mg/L
Ammonia as N	08	EPA350.1 R2.0	123		60.0	100	1000	mg/L
BOD	08	SM5210B-2016	1050		0.2	2.0	1	mg/L
COD	08	SM5220D-2011	3580	J	3150	5000	500	mg/L
TKN as N	08	EPA351.2 R2.0	112		45.9	50.0	1	mg/L
Total Recoverable Phenolics	08RE1	SW9065	1.07		0.175	0.250	5	mg/L

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the "Certificate of Analysis".

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EW-54	26G1507-01	Ground Water	07/14/2026 14:54	07/15/2026 17:12
EW-55	26G1507-02	Ground Water	07/15/2026 08:00	07/15/2026 17:12
EW-59	26G1507-03	Ground Water	07/14/2026 13:16	07/15/2026 17:12
EW-66	26G1507-04	Ground Water	07/14/2026 14:22	07/15/2026 17:12
EW-67	26G1507-05	Ground Water	07/15/2026 07:45	07/15/2026 17:12
EW-68	26G1507-06	Ground Water	07/15/2026 08:31	07/15/2026 17:12
EW-94	26G1507-07	Ground Water	07/15/2026 08:15	07/15/2026 17:12
EW-98	26G1507-08	Ground Water	07/14/2026 13:50	07/15/2026 17:12
Trip Blank	26G1507-09	Non-Potable Water	06/21/2026 16:00	07/15/2026 17:12

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-54

Laboratory Sample ID: 26G1507-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	01	7440-22-4	SW6020B	07/21/2026 17:00	07/23/2026 11:35	BLOD		0.110	1.00	10	ug/L	AB
Arsenic	01	7440-38-2	SW6020B	07/21/2026 17:00	07/23/2026 11:35	150		1.5	4.0	10	ug/L	AB
Barium	01	7440-39-3	SW6020B	07/21/2026 17:00	07/23/2026 11:35	2560		5.70	50.0	10	ug/L	AB
Cadmium	01	7440-43-9	SW6020B	07/21/2026 17:00	07/23/2026 11:35	BLOD		0.500	4.00	10	ug/L	AB
Chromium	01	7440-47-3	SW6020B	07/21/2026 17:00	07/23/2026 11:35	260		3.20	10.0	10	ug/L	AB
Copper	01	7440-50-8	SW6020B	07/21/2026 17:00	07/23/2026 11:35	BLOD		3.60	10.0	10	ug/L	AB
Mercury	01	7439-97-6	SW6020B	07/21/2026 17:00	07/23/2026 11:35	9.07		0.270	2.00	10	ug/L	AB
Nickel	01	7440-02-0	SW6020B	07/21/2026 17:00	07/23/2026 11:35	69.30		2.500	10.00	10	ug/L	AB
Lead	01	7439-92-1	SW6020B	07/21/2026 17:00	07/23/2026 11:35	16		2.5	10	10	ug/L	AB
Selenium	01	7782-49-2	SW6020B	07/21/2026 17:00	07/23/2026 11:35	2.86	J	1.80	10.0	10	ug/L	AB
Zinc	01	7440-66-6	SW6020B	07/21/2026 17:00	07/23/2026 11:35	916		12.1	50.0	10	ug/L	AB

Volatile Organic Compounds by GCMS

Sample Qualifier: pH

2-Butanone (MEK)	01	78-93-3	SW8260D	07/18/2026 00:50	07/18/2026 00:50	12500		97.0	100	100	ug/L	NSD
Acetone	01RE1	67-64-1	SW8260D	07/24/2026 18:52	07/24/2026 18:52	30800		1380	2000	500	ug/L	NSD
Benzene	01	71-43-2	SW8260D	07/18/2026 00:50	07/18/2026 00:50	395		13.9	40.0	100	ug/L	NSD
Ethylbenzene	01	100-41-4	SW8260D	07/18/2026 00:50	07/18/2026 00:50	16.0	J	15.1	40.0	100	ug/L	NSD
Toluene	01	108-88-3	SW8260D	07/18/2026 00:50	07/18/2026 00:50	22.0	J	16.0	40.0	100	ug/L	NSD
Xylenes, Total	01	1330-20-7	SW8260D	07/18/2026 00:50	07/18/2026 00:50	BLOD		43.8	300	100	ug/L	NSD
Tetrahydrofuran	01	109-99-9	SW8260D	07/18/2026 00:50	07/18/2026 00:50	4070		75.4	100	100	ug/L	NSD
Surr: 1,2-Dichloroethane-d4 (Surr)	01	116 %	70-120	07/18/2026 00:50	07/18/2026 00:50							
Surr: 4-Bromofluorobenzene (Surr)	01	98.4 %	75-120	07/18/2026 00:50	07/18/2026 00:50							
Surr: Dibromofluoromethane (Surr)	01	109 %	70-130	07/18/2026 00:50	07/18/2026 00:50							
Surr: Toluene-d8 (Surr)	01	102 %	70-130	07/18/2026 00:50	07/18/2026 00:50							
Surr: 1,2-Dichloroethane-d4 (Surr)	01RE1	98.3 %	70-120	07/24/2026 18:52	07/24/2026 18:52							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-54

Laboratory Sample ID: 26G1507-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS						Sample Qualifier: pH						
Surr: 4-Bromofluorobenzene (Surr)	01RE1	96.4 %	75-120	07/24/2026 18:52	07/24/2026 18:52							
Surr: Dibromofluoromethane (Surr)	01RE1	99.2 %	70-130	07/24/2026 18:52	07/24/2026 18:52							
Surr: Toluene-d8 (Surr)	01RE1	103 %	70-130	07/24/2026 18:52	07/24/2026 18:52							
Semivolatile Organic Compounds by GCMS												
Anthracene	01	120-12-7	SW8270E	07/20/2026 08:40	07/20/2026 22:44	BLOD		1000	2000	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	01	%	5-136	07/20/2026 08:40	07/20/2026 22:44							DS
Surr: 2-Fluorobiphenyl (Surr)	01	44.0 %	9-117	07/20/2026 08:40	07/20/2026 22:44							
Surr: 2-Fluorophenol (Surr)	01	28.0 %	5-60	07/20/2026 08:40	07/20/2026 22:44							
Surr: Nitrobenzene-d5 (Surr)	01	584 %	5-151	07/20/2026 08:40	07/20/2026 22:44							DS
Surr: Phenol-d5 (Surr)	01	151 %	5-60	07/20/2026 08:40	07/20/2026 22:44							DS
Surr: p-Terphenyl-d14 (Surr)	01	22.0 %	5-141	07/20/2026 08:40	07/20/2026 22:44							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-54

Laboratory Sample ID: 26G1507-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Ion Chromatography Analyses												
Acetic Acid	01	64-19-7	In house	07/28/2026 18:42	07/28/2026 18:42	4960		71.4	500	1000	mg/L	MGC
Butyric Acid	01	107-92-6	In house	07/28/2026 18:42	07/28/2026 18:42	1570		70.3	500	1000	mg/L	MGC
Lactic Acid	01	50-21-5	In house	07/28/2026 18:42	07/28/2026 18:42	1500		55.7	500	1000	mg/L	MGC
Propionic Acid	01	79-09-4	In house	07/28/2026 18:42	07/28/2026 18:42	1110		57.3	500	1000	mg/L	MGC
Pyruvic Acid	01	127-17-3	In house	07/28/2026 18:42	07/28/2026 18:42	144	J	88.9	500	1000	mg/L	MGC

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-54

Laboratory Sample ID: 26G1507-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Wet Chemistry Analysis												
Ammonia as N	01	7664-41-7	EPA350.1 R2.0	07/28/2026 12:04	07/28/2026 12:04	911		60.0	100	1000	mg/L	AAL
BOD	01	E1640606	SM5210B-20 16	07/16/2026 13:06	07/16/2026 13:06	28600		0.2	2.0	1	mg/L	CET
COD	01	NA	SM5220D-20 11	07/29/2026 13:54	07/29/2026 13:54	51100		6300	10000	1000	mg/L	WGW
Nitrate as N	01	14797-55-8	SM4500-NO 3F-2019CAL C	07/28/2026 13:00	07/28/2026 14:52	BLOD		0.145	0.500	10	mg/L	LNLM
Nitrate+Nitrite as N	01	E701177	SM4500-NO 3F-2019	07/28/2026 13:00	07/28/2026 14:52	BLOD		0.14	0.20	10	mg/L	AAL
Nitrite as N	01	14797-65-0	SM4500-NO 2B-2021	07/16/2026 12:07	07/16/2026 13:00	BLOD		0.13	0.50	1	mg/L	LNLM
Total Recoverable Phenolics	01	NA	SW9065	07/24/2026 15:31	07/24/2026 15:31	31.7		1.54	2.50	50	mg/L	KJM
TKN as N	01	E17148461	EPA351.2 R2.0	07/22/2026 09:00	07/23/2026 10:41	1260		45.9	50.0	1	mg/L	CSS

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-55

Laboratory Sample ID: 26G1507-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	02RE1	7440-22-4	SW6020B	07/20/2026 17:00	07/22/2026 11:42	BLOD		0.110	1.00	10	ug/L	AB
Arsenic	02RE1	7440-38-2	SW6020B	07/20/2026 17:00	07/22/2026 11:42	110		1.5	4.0	10	ug/L	AB
Barium	02RE1	7440-39-3	SW6020B	07/20/2026 17:00	07/22/2026 11:42	3020		5.70	50.0	10	ug/L	AB
Cadmium	02RE1	7440-43-9	SW6020B	07/20/2026 17:00	07/22/2026 11:42	BLOD		0.500	4.00	10	ug/L	AB
Chromium	02RE1	7440-47-3	SW6020B	07/20/2026 17:00	07/22/2026 11:42	252		3.20	10.0	10	ug/L	AB
Copper	02RE1	7440-50-8	SW6020B	07/20/2026 17:00	07/22/2026 11:42	4.81	J	3.60	10.0	10	ug/L	AB
Mercury	02	7439-97-6	SW6020B	07/20/2026 17:00	07/22/2026 12:02	3.74		0.0270	0.200	1	ug/L	AB
Nickel	02RE1	7440-02-0	SW6020B	07/20/2026 17:00	07/22/2026 11:42	26.99		2.500	10.00	10	ug/L	AB
Lead	02	7439-92-1	SW6020B	07/20/2026 17:00	07/22/2026 12:02	22		0.25	1.0	1	ug/L	AB
Selenium	02RE1	7782-49-2	SW6020B	07/20/2026 17:00	07/22/2026 11:42	3.49	J	1.80	10.0	10	ug/L	AB
Zinc	02RE1	7440-66-6	SW6020B	07/20/2026 17:00	07/22/2026 11:42	509		12.1	50.0	10	ug/L	AB

Volatile Organic Compounds by GCMS

						Sample Qualifier:	pH					
2-Butanone (MEK)	02	78-93-3	SW8260D	07/18/2026 01:16	07/18/2026 01:16	1790		97.0	100	100	ug/L	NSD
Acetone	02RE2	67-64-1	SW8260D	07/24/2026 21:09	07/24/2026 21:09	24500		277	400	100	ug/L	NSD
Benzene	02	71-43-2	SW8260D	07/18/2026 01:16	07/18/2026 01:16	30.0	J	13.9	40.0	100	ug/L	NSD
Ethylbenzene	02	100-41-4	SW8260D	07/18/2026 01:16	07/18/2026 01:16	BLOD		15.1	40.0	100	ug/L	NSD
Toluene	02	108-88-3	SW8260D	07/18/2026 01:16	07/18/2026 01:16	BLOD		16.0	40.0	100	ug/L	NSD
Xylenes, Total	02	1330-20-7	SW8260D	07/18/2026 01:16	07/18/2026 01:16	BLOD		43.8	300	100	ug/L	NSD
Tetrahydrofuran	02	109-99-9	SW8260D	07/18/2026 01:16	07/18/2026 01:16	655		75.4	100	100	ug/L	NSD
Surr: 1,2-Dichloroethane-d4 (Surr)	02	119 %	70-120	07/18/2026 01:16	07/18/2026 01:16							
Surr: 4-Bromofluorobenzene (Surr)	02	97.8 %	75-120	07/18/2026 01:16	07/18/2026 01:16							
Surr: Dibromofluoromethane (Surr)	02	110 %	70-130	07/18/2026 01:16	07/18/2026 01:16							
Surr: Toluene-d8 (Surr)	02	102 %	70-130	07/18/2026 01:16	07/18/2026 01:16							
Surr: 1,2-Dichloroethane-d4 (Surr)	02RE1	111 %	70-120	07/23/2026 18:53	07/23/2026 18:53							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-55

Laboratory Sample ID: 26G1507-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS						Sample Qualifier:		pH				
Surr: 4-Bromofluorobenzene (Surr)	02RE1	101 %	75-120	07/23/2026 18:53	07/23/2026 18:53							
Surr: Dibromofluoromethane (Surr)	02RE1	127 %	70-130	07/23/2026 18:53	07/23/2026 18:53							
Surr: Toluene-d8 (Surr)	02RE1	103 %	70-130	07/23/2026 18:53	07/23/2026 18:53							
Surr: 1,2-Dichloroethane-d4 (Surr)	02RE2	99.7 %	70-120	07/24/2026 21:09	07/24/2026 21:09							
Surr: 4-Bromofluorobenzene (Surr)	02RE2	96.7 %	75-120	07/24/2026 21:09	07/24/2026 21:09							
Surr: Dibromofluoromethane (Surr)	02RE2	100 %	70-130	07/24/2026 21:09	07/24/2026 21:09							
Surr: Toluene-d8 (Surr)	02RE2	102 %	70-130	07/24/2026 21:09	07/24/2026 21:09							
Semivolatile Organic Compounds by GCMS												
Anthracene	02	120-12-7	SW8270E	07/20/2026 08:40	07/20/2026 23:18	BLOD		1000	2000	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	02	%	5-136	07/20/2026 08:40	07/20/2026 23:18							DS
Surr: 2-Fluorobiphenyl (Surr)	02	38.0 %	9-117	07/20/2026 08:40	07/20/2026 23:18							
Surr: 2-Fluorophenol (Surr)	02	28.0 %	5-60	07/20/2026 08:40	07/20/2026 23:18							
Surr: Nitrobenzene-d5 (Surr)	02	1140 %	5-151	07/20/2026 08:40	07/20/2026 23:18							DS
Surr: Phenol-d5 (Surr)	02	2.00 %	5-60	07/20/2026 08:40	07/20/2026 23:18							DS
Surr: p-Terphenyl-d14 (Surr)	02	22.0 %	5-141	07/20/2026 08:40	07/20/2026 23:18							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-55

Laboratory Sample ID: 26G1507-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Ion Chromatography Analyses												
Acetic Acid	02	64-19-7	In house	07/28/2026 20:18	07/28/2026 20:18	7640		71.4	500	1000	mg/L	MGC
Butyric Acid	02	107-92-6	In house	07/28/2026 20:18	07/28/2026 20:18	2100		70.3	500	1000	mg/L	MGC
Lactic Acid	02	50-21-5	In house	07/28/2026 20:18	07/28/2026 20:18	1410		55.7	500	1000	mg/L	MGC
Propionic Acid	02	79-09-4	In house	07/28/2026 20:18	07/28/2026 20:18	2630		57.3	500	1000	mg/L	MGC
Pyruvic Acid	02	127-17-3	In house	07/28/2026 20:18	07/28/2026 20:18	179	J	88.9	500	1000	mg/L	MGC

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-55

Laboratory Sample ID: 26G1507-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Wet Chemistry Analysis												
Ammonia as N	02	7664-41-7	EPA350.1 R2.0	07/28/2026 12:06	07/28/2026 12:06	1480		60.0	100	1000	mg/L	AAL
BOD	02	E1640606	SM5210B-20 16	07/16/2026 13:04	07/16/2026 13:04	>35157.00		0.2	2.0	1	mg/L	CET
BOD	02	E1640606	SM5210B-20 16	07/16/2026 13:04	07/16/2026 13:04	>35157.00		0.2	2.0	1	mg/L	CET
COD	02	NA	SM5220D-20 11	07/29/2026 13:54	07/29/2026 13:54	64000		6300	10000	1000	mg/L	WGW
Nitrate as N	02	14797-55-8	SM4500-NO 3F-2019CAL C	07/28/2026 13:00	07/28/2026 14:53	BLOD		0.145	0.500	10	mg/L	LNLM
Nitrate+Nitrite as N	02	E701177	SM4500-NO 3F-2019	07/28/2026 13:00	07/28/2026 14:53	BLOD		0.14	0.20	10	mg/L	AAL
Nitrite as N	02	14797-65-0	SM4500-NO 2B-2021	07/16/2026 12:07	07/16/2026 13:00	BLOD		0.13	0.50	1	mg/L	LNLM
Total Recoverable Phenolics	02	NA	SW9065	07/24/2026 15:31	07/24/2026 15:31	56.4		6.18	10.0	200	mg/L	KJM
TKN as N	02	E17148461	EPA351.2 R2.0	07/24/2026 13:43	07/27/2026 13:40	2060		45.9	50.0	1	mg/L	CSS

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-59

Laboratory Sample ID: 26G1507-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	03RE1	7440-22-4	SW6020B	07/20/2026 17:00	07/22/2026 11:44	BLOD		0.110	1.00	10	ug/L	AB
Arsenic	03RE1	7440-38-2	SW6020B	07/20/2026 17:00	07/22/2026 11:44	260		1.5	4.0	10	ug/L	AB
Barium	03RE1	7440-39-3	SW6020B	07/20/2026 17:00	07/22/2026 11:44	1550		5.70	50.0	10	ug/L	AB
Cadmium	03RE1	7440-43-9	SW6020B	07/20/2026 17:00	07/22/2026 11:44	BLOD		0.500	4.00	10	ug/L	AB
Chromium	03RE1	7440-47-3	SW6020B	07/20/2026 17:00	07/22/2026 11:44	168		3.20	10.0	10	ug/L	AB
Copper	03RE1	7440-50-8	SW6020B	07/20/2026 17:00	07/22/2026 11:44	BLOD		3.60	10.0	10	ug/L	AB
Mercury	03	7439-97-6	SW6020B	07/20/2026 17:00	07/22/2026 12:05	0.593		0.0270	0.200	1	ug/L	AB
Nickel	03RE1	7440-02-0	SW6020B	07/20/2026 17:00	07/22/2026 11:44	28.21		2.500	10.00	10	ug/L	AB
Lead	03	7439-92-1	SW6020B	07/20/2026 17:00	07/22/2026 12:05	1.2		0.25	1.0	1	ug/L	AB
Selenium	03RE1	7782-49-2	SW6020B	07/20/2026 17:00	07/22/2026 11:44	3.24	J	1.80	10.0	10	ug/L	AB
Zinc	03RE1	7440-66-6	SW6020B	07/20/2026 17:00	07/22/2026 11:44	78.4		12.1	50.0	10	ug/L	AB

Volatile Organic Compounds by GCMS

Sample Qualifier: pH

2-Butanone (MEK)	03	78-93-3	SW8260D	07/18/2026 01:42	07/18/2026 01:42	26900		97.0	100	100	ug/L	NSD
Acetone	03RE1	67-64-1	SW8260D	07/24/2026 20:46	07/24/2026 20:46	7300		692	1000	250	ug/L	NSD
Benzene	03	71-43-2	SW8260D	07/18/2026 01:42	07/18/2026 01:42	795		13.9	40.0	100	ug/L	NSD
Ethylbenzene	03	100-41-4	SW8260D	07/18/2026 01:42	07/18/2026 01:42	44.0		15.1	40.0	100	ug/L	NSD
Toluene	03	108-88-3	SW8260D	07/18/2026 01:42	07/18/2026 01:42	45.0		16.0	40.0	100	ug/L	NSD
Xylenes, Total	03	1330-20-7	SW8260D	07/18/2026 01:42	07/18/2026 01:42	75.0	J	43.8	300	100	ug/L	NSD
Tetrahydrofuran	03	109-99-9	SW8260D	07/18/2026 01:42	07/18/2026 01:42	6460		75.4	100	100	ug/L	NSD
Surr: 1,2-Dichloroethane-d4 (Surr)	03	118 %	70-120	07/18/2026 01:42	07/18/2026 01:42							
Surr: 4-Bromofluorobenzene (Surr)	03	97.4 %	75-120	07/18/2026 01:42	07/18/2026 01:42							
Surr: Dibromofluoromethane (Surr)	03	111 %	70-130	07/18/2026 01:42	07/18/2026 01:42							
Surr: Toluene-d8 (Surr)	03	101 %	70-130	07/18/2026 01:42	07/18/2026 01:42							
Surr: 1,2-Dichloroethane-d4 (Surr)	03RE1	96.0 %	70-120	07/24/2026 20:46	07/24/2026 20:46							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-59

Laboratory Sample ID: 26G1507-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS							Sample Qualifier: pH					
Surr: 4-Bromofluorobenzene (Surr)	03RE1	96.7 %	75-120	07/24/2026 20:46	07/24/2026 20:46							
Surr: Dibromofluoromethane (Surr)	03RE1	98.2 %	70-130	07/24/2026 20:46	07/24/2026 20:46							
Surr: Toluene-d8 (Surr)	03RE1	102 %	70-130	07/24/2026 20:46	07/24/2026 20:46							
Semivolatile Organic Compounds by GCMS												
Anthracene	03	120-12-7	SW8270E	07/20/2026 08:40	07/20/2026 23:52	BLOD		1000	2000	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	03	%	5-136	07/20/2026 08:40	07/20/2026 23:52							DS
Surr: 2-Fluorobiphenyl (Surr)	03	30.0 %	9-117	07/20/2026 08:40	07/20/2026 23:52							
Surr: 2-Fluorophenol (Surr)	03	24.0 %	5-60	07/20/2026 08:40	07/20/2026 23:52							
Surr: Nitrobenzene-d5 (Surr)	03	400 %	5-151	07/20/2026 08:40	07/20/2026 23:52							DS
Surr: Phenol-d5 (Surr)	03	26.0 %	5-60	07/20/2026 08:40	07/20/2026 23:52							
Surr: p-Terphenyl-d14 (Surr)	03	14.0 %	5-141	07/20/2026 08:40	07/20/2026 23:52							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-59

Laboratory Sample ID: 26G1507-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Ion Chromatography Analyses												
Acetic Acid	03	64-19-7	In house	07/28/2026 20:49	07/28/2026 20:49	4440		71.4	500	1000	mg/L	MGC
Butyric Acid	03	107-92-6	In house	07/28/2026 20:49	07/28/2026 20:49	1050		70.3	500	1000	mg/L	MGC
Lactic Acid	03	50-21-5	In house	07/28/2026 20:49	07/28/2026 20:49	566		55.7	500	1000	mg/L	MGC
Propionic Acid	03	79-09-4	In house	07/28/2026 20:49	07/28/2026 20:49	1360		57.3	500	1000	mg/L	MGC
Pyruvic Acid	03	127-17-3	In house	07/28/2026 20:49	07/28/2026 20:49	157	J	88.9	500	1000	mg/L	MGC

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-59

Laboratory Sample ID: 26G1507-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Wet Chemistry Analysis												
Ammonia as N	03	7664-41-7	EPA350.1 R2.0	07/28/2026 12:08	07/28/2026 12:08	1880		120	200	2000	mg/L	AAL
BOD	03	E1640606	SM5210B-20 16	07/16/2026 13:00	07/16/2026 13:00	22400		0.2	2.0	1	mg/L	CET
COD	03	NA	SM5220D-20 11	07/29/2026 13:54	07/29/2026 13:54	36700		3150	5000	500	mg/L	WGW
Nitrate as N	03	14797-55-8	SM4500-NO 3F-2019CAL C	07/28/2026 13:00	07/28/2026 14:55	BLOD		0.145	0.500	10	mg/L	LNLM
Nitrate+Nitrite as N	03	E701177	SM4500-NO 3F-2019	07/28/2026 13:00	07/28/2026 14:55	BLOD		0.14	0.20	10	mg/L	AAL
Nitrite as N	03	14797-65-0	SM4500-NO 2B-2021	07/16/2026 12:07	07/16/2026 13:00	BLOD		0.13	0.50	1	mg/L	LNLM
Total Recoverable Phenolics	03	NA	SW9065	07/24/2026 15:31	07/24/2026 15:31	45.4		3.09	5.00	100	mg/L	KJM
TKN as N	03	E17148461	EPA351.2 R2.0	07/24/2026 13:43	07/27/2026 13:32	2000		45.9	50.0	1	mg/L	CSS

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-66

Laboratory Sample ID: 26G1507-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	04	7440-22-4	SW6020B	07/21/2026 17:00	07/23/2026 11:38	0.144	J	0.110	1.00	10	ug/L	AB
Arsenic	04	7440-38-2	SW6020B	07/21/2026 17:00	07/23/2026 11:38	150		1.5	4.0	10	ug/L	AB
Barium	04	7440-39-3	SW6020B	07/21/2026 17:00	07/23/2026 11:38	2480		5.70	50.0	10	ug/L	AB
Cadmium	04	7440-43-9	SW6020B	07/21/2026 17:00	07/23/2026 11:38	BLOD		0.500	4.00	10	ug/L	AB
Chromium	04	7440-47-3	SW6020B	07/21/2026 17:00	07/23/2026 11:38	364		3.20	10.0	10	ug/L	AB
Copper	04	7440-50-8	SW6020B	07/21/2026 17:00	07/23/2026 11:38	BLOD		3.60	10.0	10	ug/L	AB
Mercury	04	7439-97-6	SW6020B	07/21/2026 17:00	07/23/2026 11:38	0.750	J	0.270	2.00	10	ug/L	AB
Nickel	04	7440-02-0	SW6020B	07/21/2026 17:00	07/23/2026 11:38	61.29		2.500	10.00	10	ug/L	AB
Lead	04	7439-92-1	SW6020B	07/21/2026 17:00	07/23/2026 11:38	8.6	J	2.5	10	10	ug/L	AB
Selenium	04	7782-49-2	SW6020B	07/21/2026 17:00	07/23/2026 11:38	3.50	J	1.80	10.0	10	ug/L	AB
Zinc	04	7440-66-6	SW6020B	07/21/2026 17:00	07/23/2026 11:38	643		12.1	50.0	10	ug/L	AB

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-66

Laboratory Sample ID: 26G1507-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS						Sample Qualifier:		pH				
2-Butanone (MEK)	04	78-93-3	SW8260D	07/18/2026 02:07	07/18/2026 02:07	9660		97.0	100	100	ug/L	NSD
Acetone	04RE1	67-64-1	SW8260D	07/24/2026 19:37	07/24/2026 19:37	32700		1380	2000	500	ug/L	NSD
Benzene	04	71-43-2	SW8260D	07/18/2026 02:07	07/18/2026 02:07	283		13.9	40.0	100	ug/L	NSD
Ethylbenzene	04	100-41-4	SW8260D	07/18/2026 02:07	07/18/2026 02:07	24.0	J	15.1	40.0	100	ug/L	NSD
Toluene	04	108-88-3	SW8260D	07/18/2026 02:07	07/18/2026 02:07	27.0	J	16.0	40.0	100	ug/L	NSD
Xylenes, Total	04	1330-20-7	SW8260D	07/18/2026 02:07	07/18/2026 02:07	52.0	J	43.8	300	100	ug/L	NSD
Tetrahydrofuran	04	109-99-9	SW8260D	07/18/2026 02:07	07/18/2026 02:07	3380		75.4	100	100	ug/L	NSD
Surr: 1,2-Dichloroethane-d4 (Surr)	04	119 %	70-120	07/18/2026 02:07	07/18/2026 02:07							
Surr: 4-Bromofluorobenzene (Surr)	04	97.6 %	75-120	07/18/2026 02:07	07/18/2026 02:07							
Surr: Dibromofluoromethane (Surr)	04	110 %	70-130	07/18/2026 02:07	07/18/2026 02:07							
Surr: Toluene-d8 (Surr)	04	102 %	70-130	07/18/2026 02:07	07/18/2026 02:07							
Surr: 1,2-Dichloroethane-d4 (Surr)	04RE1	99.7 %	70-120	07/24/2026 19:37	07/24/2026 19:37							
Surr: 4-Bromofluorobenzene (Surr)	04RE1	96.7 %	75-120	07/24/2026 19:37	07/24/2026 19:37							
Surr: Dibromofluoromethane (Surr)	04RE1	99.6 %	70-130	07/24/2026 19:37	07/24/2026 19:37							
Surr: Toluene-d8 (Surr)	04RE1	102 %	70-130	07/24/2026 19:37	07/24/2026 19:37							
Semivolatile Organic Compounds by GCMS												
Anthracene	04	120-12-7	SW8270E	07/20/2026 08:40	07/21/2026 00:27	BLOD		1000	2000	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	04	%	5-136	07/20/2026 08:40	07/21/2026 00:27							DS
Surr: 2-Fluorobiphenyl (Surr)	04	34.0 %	9-117	07/20/2026 08:40	07/21/2026 00:27							
Surr: 2-Fluorophenol (Surr)	04	33.0 %	5-60	07/20/2026 08:40	07/21/2026 00:27							
Surr: Nitrobenzene-d5 (Surr)	04	804 %	5-151	07/20/2026 08:40	07/21/2026 00:27							DS
Surr: Phenol-d5 (Surr)	04	6.00 %	5-60	07/20/2026 08:40	07/21/2026 00:27							
Surr: p-Terphenyl-d14 (Surr)	04	16.0 %	5-141	07/20/2026 08:40	07/21/2026 00:27							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-66

Laboratory Sample ID: 26G1507-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Ion Chromatography Analyses												
Acetic Acid	04	64-19-7	In house	07/28/2026 21:21	07/28/2026 21:21	7660		71.4	500	1000	mg/L	MGC
Butyric Acid	04	107-92-6	In house	07/28/2026 21:21	07/28/2026 21:21	1900		70.3	500	1000	mg/L	MGC
Lactic Acid	04	50-21-5	In house	07/28/2026 21:21	07/28/2026 21:21	1610		55.7	500	1000	mg/L	MGC
Propionic Acid	04	79-09-4	In house	07/28/2026 21:21	07/28/2026 21:21	2290		57.3	500	1000	mg/L	MGC
Pyruvic Acid	04	127-17-3	In house	07/28/2026 21:21	07/28/2026 21:21	176	J	88.9	500	1000	mg/L	MGC

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-66

Laboratory Sample ID: 26G1507-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Wet Chemistry Analysis												
Ammonia as N	04	7664-41-7	EPA350.1 R2.0	07/28/2026 12:09	07/28/2026 12:09	1800		60.0	100	1000	mg/L	AAL
BOD	04	E1640606	SM5210B-20 16	07/16/2026 13:10	07/16/2026 13:10	>34857		0.2	2.0	1	mg/L	CET
BOD	04	E1640606	SM5210B-20 16	07/16/2026 13:10	07/16/2026 13:10	>34857		0.2	2.0	1	mg/L	CET
COD	04	NA	SM5220D-20 11	07/29/2026 13:54	07/29/2026 13:54	65000		6300	10000	1000	mg/L	WGW
Nitrate as N	04	14797-55-8	SM4500-NO 3F-2019CAL C	07/29/2026 10:00	07/29/2026 12:32	BLOD		0.145	0.500	10	mg/L	LNLM
Nitrate+Nitrite as N	04	E701177	SM4500-NO 3F-2019	07/29/2026 10:00	07/29/2026 12:32	BLOD		0.14	0.20	10	mg/L	AAL
Nitrite as N	04	14797-65-0	SM4500-NO 2B-2021	07/16/2026 12:07	07/16/2026 13:00	BLOD		0.13	0.50	1	mg/L	LNLM
Total Recoverable Phenolics	04	NA	SW9065	07/24/2026 15:31	07/24/2026 15:31	61.4		3.09	5.00	100	mg/L	KJM
TKN as N	04	E17148461	EPA351.2 R2.0	07/23/2026 13:36	07/24/2026 11:14	2310		45.9	50.0	1	mg/L	CSS

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-67

Laboratory Sample ID: 26G1507-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	05	7440-22-4	SW6020B	07/21/2026 17:00	07/23/2026 11:41	BLOD		0.110	1.00	10	ug/L	AB
Arsenic	05	7440-38-2	SW6020B	07/21/2026 17:00	07/23/2026 11:41	160		1.5	4.0	10	ug/L	AB
Barium	05	7440-39-3	SW6020B	07/21/2026 17:00	07/23/2026 11:41	3100		5.70	50.0	10	ug/L	AB
Cadmium	05	7440-43-9	SW6020B	07/21/2026 17:00	07/23/2026 11:41	6.77		0.500	4.00	10	ug/L	AB
Chromium	05	7440-47-3	SW6020B	07/21/2026 17:00	07/23/2026 11:41	342		3.20	10.0	10	ug/L	AB
Copper	05	7440-50-8	SW6020B	07/21/2026 17:00	07/23/2026 11:41	4.33	J	3.60	10.0	10	ug/L	AB
Mercury	05	7439-97-6	SW6020B	07/21/2026 17:00	07/23/2026 11:41	6.77		0.270	2.00	10	ug/L	AB
Nickel	05	7440-02-0	SW6020B	07/21/2026 17:00	07/23/2026 11:41	66.37		2.500	10.00	10	ug/L	AB
Lead	05	7439-92-1	SW6020B	07/21/2026 17:00	07/23/2026 11:41	13		2.5	10	10	ug/L	AB
Selenium	05	7782-49-2	SW6020B	07/21/2026 17:00	07/23/2026 11:41	2.95	J	1.80	10.0	10	ug/L	AB
Zinc	05	7440-66-6	SW6020B	07/21/2026 17:00	07/23/2026 11:41	1160		12.1	50.0	10	ug/L	AB

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-67

Laboratory Sample ID: 26G1507-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS						Sample Qualifier:		pH				
2-Butanone (MEK)	05	78-93-3	SW8260D	07/18/2026 02:33	07/18/2026 02:33	9510		97.0	100	100	ug/L	NSD
Acetone	05RE1	67-64-1	SW8260D	07/24/2026 20:00	07/24/2026 20:00	26200		1380	2000	500	ug/L	NSD
Benzene	05	71-43-2	SW8260D	07/18/2026 02:33	07/18/2026 02:33	97.0		13.9	40.0	100	ug/L	NSD
Ethylbenzene	05	100-41-4	SW8260D	07/18/2026 02:33	07/18/2026 02:33	BLOD		15.1	40.0	100	ug/L	NSD
Toluene	05	108-88-3	SW8260D	07/18/2026 02:33	07/18/2026 02:33	BLOD		16.0	40.0	100	ug/L	NSD
Xylenes, Total	05	1330-20-7	SW8260D	07/18/2026 02:33	07/18/2026 02:33	BLOD		43.8	300	100	ug/L	NSD
Tetrahydrofuran	05	109-99-9	SW8260D	07/18/2026 02:33	07/18/2026 02:33	3040		75.4	100	100	ug/L	NSD
Surr: 1,2-Dichloroethane-d4 (Surr)	05	118 %	70-120	07/18/2026 02:33	07/18/2026 02:33							
Surr: 4-Bromofluorobenzene (Surr)	05	98.9 %	75-120	07/18/2026 02:33	07/18/2026 02:33							
Surr: Dibromofluoromethane (Surr)	05	110 %	70-130	07/18/2026 02:33	07/18/2026 02:33							
Surr: Toluene-d8 (Surr)	05	103 %	70-130	07/18/2026 02:33	07/18/2026 02:33							
Surr: 1,2-Dichloroethane-d4 (Surr)	05RE1	99.9 %	70-120	07/24/2026 20:00	07/24/2026 20:00							
Surr: 4-Bromofluorobenzene (Surr)	05RE1	96.6 %	75-120	07/24/2026 20:00	07/24/2026 20:00							
Surr: Dibromofluoromethane (Surr)	05RE1	100 %	70-130	07/24/2026 20:00	07/24/2026 20:00							
Surr: Toluene-d8 (Surr)	05RE1	102 %	70-130	07/24/2026 20:00	07/24/2026 20:00							
Semivolatile Organic Compounds by GCMS												
Anthracene	05	120-12-7	SW8270E	07/20/2026 08:40	07/21/2026 01:02	BLOD		1000	2000	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	05	%	5-136	07/20/2026 08:40	07/21/2026 01:02							DS
Surr: 2-Fluorobiphenyl (Surr)	05	46.0 %	9-117	07/20/2026 08:40	07/21/2026 01:02							
Surr: 2-Fluorophenol (Surr)	05	13.0 %	5-60	07/20/2026 08:40	07/21/2026 01:02							
Surr: Nitrobenzene-d5 (Surr)	05	966 %	5-151	07/20/2026 08:40	07/21/2026 01:02							DS
Surr: Phenol-d5 (Surr)	05	26.0 %	5-60	07/20/2026 08:40	07/21/2026 01:02							
Surr: p-Terphenyl-d14 (Surr)	05	16.0 %	5-141	07/20/2026 08:40	07/21/2026 01:02							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-67

Laboratory Sample ID: 26G1507-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Ion Chromatography Analyses												
Acetic Acid	05	64-19-7	In house	07/28/2026 21:53	07/28/2026 21:53	7770		71.4	500	1000	mg/L	MGC
Butyric Acid	05	107-92-6	In house	07/28/2026 21:53	07/28/2026 21:53	2100		70.3	500	1000	mg/L	MGC
Lactic Acid	05	50-21-5	In house	07/28/2026 21:53	07/28/2026 21:53	1450		55.7	500	1000	mg/L	MGC
Propionic Acid	05	79-09-4	In house	07/28/2026 21:53	07/28/2026 21:53	2520		57.3	500	1000	mg/L	MGC
Pyruvic Acid	05	127-17-3	In house	07/28/2026 21:53	07/28/2026 21:53	187	J	88.9	500	1000	mg/L	MGC

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-67

Laboratory Sample ID: 26G1507-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Wet Chemistry Analysis												
Ammonia as N	05	7664-41-7	EPA350.1 R2.0	07/28/2026 12:11	07/28/2026 12:11	1590		60.0	100	1000	mg/L	AAL
BOD	05	E1640606	SM5210B-20 16	07/16/2026 13:08	07/16/2026 13:08	>35157		0.2	2.0	1	mg/L	CET
BOD	05	E1640606	SM5210B-20 16	07/16/2026 13:08	07/16/2026 13:08	>35157		0.2	2.0	1	mg/L	CET
COD	05	NA	SM5220D-20 11	07/29/2026 13:54	07/29/2026 13:54	63700		6300	10000	1000	mg/L	WGW
Nitrate as N	05	14797-55-8	SM4500-NO 3F-2019CAL C	07/29/2026 10:00	07/29/2026 12:34	BLOD		0.145	0.500	10	mg/L	LNLM
Nitrate+Nitrite as N	05	E701177	SM4500-NO 3F-2019	07/29/2026 10:00	07/29/2026 12:34	BLOD		0.14	0.20	10	mg/L	AAL
Nitrite as N	05	14797-65-0	SM4500-NO 2B-2021	07/16/2026 12:07	07/16/2026 13:00	BLOD		0.13	0.50	1	mg/L	LNLM
Total Recoverable Phenolics	05	NA	SW9065	07/24/2026 15:31	07/24/2026 15:31	55.8		3.09	5.00	100	mg/L	KJM
TKN as N	05	E17148461	EPA351.2 R2.0	07/23/2026 13:36	07/24/2026 11:23	2280		45.9	50.0	1	mg/L	CSS

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-68

Laboratory Sample ID: 26G1507-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	06	7440-22-4	SW6020B	07/21/2026 17:00	07/23/2026 11:47	BLOD		0.110	1.00	10	ug/L	AB
Arsenic	06	7440-38-2	SW6020B	07/21/2026 17:00	07/23/2026 11:47	310		1.5	4.0	10	ug/L	AB
Barium	06	7440-39-3	SW6020B	07/21/2026 17:00	07/23/2026 11:47	5130		5.70	50.0	10	ug/L	AB
Cadmium	06	7440-43-9	SW6020B	07/21/2026 17:00	07/23/2026 11:47	1.12	J	0.500	4.00	10	ug/L	AB
Chromium	06	7440-47-3	SW6020B	07/21/2026 17:00	07/23/2026 11:47	189		3.20	10.0	10	ug/L	AB
Copper	06	7440-50-8	SW6020B	07/21/2026 17:00	07/23/2026 11:47	4.01	J	3.60	10.0	10	ug/L	AB
Mercury	06	7439-97-6	SW6020B	07/21/2026 17:00	07/23/2026 11:47	2.48		0.270	2.00	10	ug/L	AB
Nickel	06	7440-02-0	SW6020B	07/21/2026 17:00	07/23/2026 11:47	53.62		2.500	10.00	10	ug/L	AB
Lead	06	7439-92-1	SW6020B	07/21/2026 17:00	07/23/2026 11:47	BLOD		2.5	10	10	ug/L	AB
Selenium	06	7782-49-2	SW6020B	07/21/2026 17:00	07/23/2026 11:47	3.74	J	1.80	10.0	10	ug/L	AB
Zinc	06	7440-66-6	SW6020B	07/21/2026 17:00	07/23/2026 11:47	81.7		12.1	50.0	10	ug/L	AB

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-68

Laboratory Sample ID: 26G1507-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS						Sample Qualifier:		pH				
2-Butanone (MEK)	06	78-93-3	SW8260D	07/18/2026 01:17	07/18/2026 01:17	21800		97.0	100	100	ug/L	JWR
Acetone	06RE1	67-64-1	SW8260D	07/23/2026 19:18	07/23/2026 19:18	71000		1380	2000	500	ug/L	NSD
Benzene	06	71-43-2	SW8260D	07/18/2026 01:17	07/18/2026 01:17	556		13.9	40.0	100	ug/L	JWR
Ethylbenzene	06	100-41-4	SW8260D	07/18/2026 01:17	07/18/2026 01:17	53.0		15.1	40.0	100	ug/L	JWR
Toluene	06	108-88-3	SW8260D	07/18/2026 01:17	07/18/2026 01:17	57.0		16.0	40.0	100	ug/L	JWR
Xylenes, Total	06	1330-20-7	SW8260D	07/18/2026 01:17	07/18/2026 01:17	94.0	J	43.8	300	100	ug/L	JWR
Tetrahydrofuran	06	109-99-9	SW8260D	07/18/2026 01:17	07/18/2026 01:17	5570		75.4	100	100	ug/L	JWR
Surr: 1,2-Dichloroethane-d4 (Surr)	06	98.2 %	70-120	07/18/2026 01:17	07/18/2026 01:17							
Surr: 4-Bromofluorobenzene (Surr)	06	97.3 %	75-120	07/18/2026 01:17	07/18/2026 01:17							
Surr: Dibromofluoromethane (Surr)	06	95.2 %	70-130	07/18/2026 01:17	07/18/2026 01:17							
Surr: Toluene-d8 (Surr)	06	99.2 %	70-130	07/18/2026 01:17	07/18/2026 01:17							
Surr: 1,2-Dichloroethane-d4 (Surr)	06RE1	114 %	70-120	07/23/2026 19:18	07/23/2026 19:18							
Surr: 4-Bromofluorobenzene (Surr)	06RE1	99.8 %	75-120	07/23/2026 19:18	07/23/2026 19:18							
Surr: Dibromofluoromethane (Surr)	06RE1	110 %	70-130	07/23/2026 19:18	07/23/2026 19:18							
Surr: Toluene-d8 (Surr)	06RE1	104 %	70-130	07/23/2026 19:18	07/23/2026 19:18							
Semivolatile Organic Compounds by GCMS												
Anthracene	06	120-12-7	SW8270E	07/20/2026 08:40	07/21/2026 01:37	BLOD		1000	2000	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	06	%	5-136	07/20/2026 08:40	07/21/2026 01:37							DS
Surr: 2-Fluorobiphenyl (Surr)	06	22.0 %	9-117	07/20/2026 08:40	07/21/2026 01:37							
Surr: 2-Fluorophenol (Surr)	06	25.0 %	5-60	07/20/2026 08:40	07/21/2026 01:37							
Surr: Nitrobenzene-d5 (Surr)	06	482 %	5-151	07/20/2026 08:40	07/21/2026 01:37							DS
Surr: Phenol-d5 (Surr)	06	22.0 %	5-60	07/20/2026 08:40	07/21/2026 01:37							
Surr: p-Terphenyl-d14 (Surr)	06	8.00 %	5-141	07/20/2026 08:40	07/21/2026 01:37							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-68

Laboratory Sample ID: 26G1507-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Ion Chromatography Analyses												
Acetic Acid	06	64-19-7	In house	07/29/2026 00:00	07/29/2026 00:00	4770		71.4	500	1000	mg/L	MGC
Butyric Acid	06	107-92-6	In house	07/29/2026 00:00	07/29/2026 00:00	894		70.3	500	1000	mg/L	MGC
Lactic Acid	06	50-21-5	In house	07/29/2026 00:00	07/29/2026 00:00	279	J	55.7	500	1000	mg/L	MGC
Propionic Acid	06	79-09-4	In house	07/29/2026 00:00	07/29/2026 00:00	1580		57.3	500	1000	mg/L	MGC
Pyruvic Acid	06	127-17-3	In house	07/29/2026 00:00	07/29/2026 00:00	169	J	88.9	500	1000	mg/L	MGC

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-68

Laboratory Sample ID: 26G1507-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Wet Chemistry Analysis												
Ammonia as N	06	7664-41-7	EPA350.1 R2.0	07/28/2026 12:13	07/28/2026 12:13	2530		120	200	2000	mg/L	AAL
BOD	06	E1640606	SM5210B-20 16	07/16/2026 13:03	07/16/2026 13:03	27300		0.2	2.0	1	mg/L	CET
COD	06	NA	SM5220D-20 11	07/29/2026 13:54	07/29/2026 13:54	47100		6300	10000	1000	mg/L	WGW
Nitrate as N	06	14797-55-8	SM4500-NO 3F-2019CAL C	07/29/2026 10:00	07/29/2026 12:35	BLOD		0.145	0.500	10	mg/L	LNLM
Nitrate+Nitrite as N	06	E701177	SM4500-NO 3F-2019	07/29/2026 10:00	07/29/2026 12:35	0.17	J	0.14	0.20	10	mg/L	AAL
Nitrite as N	06	14797-65-0	SM4500-NO 2B-2021	07/16/2026 12:07	07/16/2026 13:00	BLOD		0.13	0.50	1	mg/L	LNLM
Total Recoverable Phenolics	06	NA	SW9065	07/24/2026 15:31	07/24/2026 15:31	45.4		3.09	5.00	100	mg/L	KJM
TKN as N	06	E17148461	EPA351.2 R2.0	07/23/2026 13:36	07/24/2026 11:28	3400		45.9	50.0	1	mg/L	CSS

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-94

Laboratory Sample ID: 26G1507-07

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	07RE1	7440-22-4	SW6020B	07/20/2026 17:00	07/22/2026 11:46	BLOD		0.110	1.00	10	ug/L	AB
Arsenic	07RE1	7440-38-2	SW6020B	07/20/2026 17:00	07/22/2026 11:46	76		1.5	4.0	10	ug/L	AB
Barium	07RE1	7440-39-3	SW6020B	07/20/2026 17:00	07/22/2026 11:46	1040		5.70	50.0	10	ug/L	AB
Cadmium	07RE1	7440-43-9	SW6020B	07/20/2026 17:00	07/22/2026 11:46	10.9		0.500	4.00	10	ug/L	AB
Chromium	07RE1	7440-47-3	SW6020B	07/20/2026 17:00	07/22/2026 11:46	28.2		3.20	10.0	10	ug/L	AB
Copper	07RE1	7440-50-8	SW6020B	07/20/2026 17:00	07/22/2026 11:46	BLOD		3.60	10.0	10	ug/L	AB
Mercury	07	7439-97-6	SW6020B	07/20/2026 17:00	07/22/2026 12:07	6.30		0.0270	0.200	1	ug/L	AB
Nickel	07RE1	7440-02-0	SW6020B	07/20/2026 17:00	07/22/2026 11:46	12.87		2.500	10.00	10	ug/L	AB
Lead	07	7439-92-1	SW6020B	07/20/2026 17:00	07/22/2026 12:07	1.0		0.25	1.0	1	ug/L	AB
Selenium	07RE1	7782-49-2	SW6020B	07/20/2026 17:00	07/22/2026 11:46	BLOD		1.80	10.0	10	ug/L	AB
Zinc	07RE1	7440-66-6	SW6020B	07/20/2026 17:00	07/22/2026 11:46	107		12.1	50.0	10	ug/L	AB

Volatile Organic Compounds by GCMS

Sample Qualifier: pH

2-Butanone (MEK)	07	78-93-3	SW8260D	07/18/2026 02:06	07/18/2026 02:06	16700		97.0	100	100	ug/L	JWR
Acetone	07RE2	67-64-1	SW8260D	07/24/2026 20:23	07/24/2026 20:23	56200		1380	2000	500	ug/L	NSD
Benzene	07	71-43-2	SW8260D	07/18/2026 02:06	07/18/2026 02:06	150		13.9	40.0	100	ug/L	JWR
Ethylbenzene	07	100-41-4	SW8260D	07/18/2026 02:06	07/18/2026 02:06	BLOD		15.1	40.0	100	ug/L	JWR
Toluene	07	108-88-3	SW8260D	07/18/2026 02:06	07/18/2026 02:06	BLOD		16.0	40.0	100	ug/L	JWR
Xylenes, Total	07	1330-20-7	SW8260D	07/18/2026 02:06	07/18/2026 02:06	BLOD		43.8	300	100	ug/L	JWR
Tetrahydrofuran	07	109-99-9	SW8260D	07/18/2026 02:06	07/18/2026 02:06	5000		75.4	100	100	ug/L	JWR
Surr: 1,2-Dichloroethane-d4 (Surr)	07	96.8 %	70-120	07/18/2026 02:06	07/18/2026 02:06							
Surr: 4-Bromofluorobenzene (Surr)	07	95.6 %	75-120	07/18/2026 02:06	07/18/2026 02:06							
Surr: Dibromofluoromethane (Surr)	07	93.7 %	70-130	07/18/2026 02:06	07/18/2026 02:06							
Surr: Toluene-d8 (Surr)	07	98.0 %	70-130	07/18/2026 02:06	07/18/2026 02:06							
Surr: 1,2-Dichloroethane-d4 (Surr)	07RE2	96.8 %	70-120	07/24/2026 20:23	07/24/2026 20:23							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-94

Laboratory Sample ID: 26G1507-07

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS						Sample Qualifier:		pH				
Surr: 4-Bromofluorobenzene (Surr)	07RE2	95.7 %	75-120	07/24/2026 20:23	07/24/2026 20:23							
Surr: Dibromofluoromethane (Surr)	07RE2	99.7 %	70-130	07/24/2026 20:23	07/24/2026 20:23							
Surr: Toluene-d8 (Surr)	07RE2	101 %	70-130	07/24/2026 20:23	07/24/2026 20:23							
Semivolatile Organic Compounds by GCMS												
Anthracene	07	120-12-7	SW8270E	07/20/2026 08:40	07/21/2026 02:12	BLOD		100	200	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	07	69.9 %	5-136	07/20/2026 08:40	07/21/2026 02:12							
Surr: 2-Fluorobiphenyl (Surr)	07	40.4 %	9-117	07/20/2026 08:40	07/21/2026 02:12							
Surr: 2-Fluorophenol (Surr)	07	26.0 %	5-60	07/20/2026 08:40	07/21/2026 02:12							
Surr: Nitrobenzene-d5 (Surr)	07	307 %	5-151	07/20/2026 08:40	07/21/2026 02:12							DS
Surr: Phenol-d5 (Surr)	07	12.9 %	5-60	07/20/2026 08:40	07/21/2026 02:12							
Surr: p-Terphenyl-d14 (Surr)	07	20.2 %	5-141	07/20/2026 08:40	07/21/2026 02:12							
Ion Chromatography Analyses												
Acetic Acid	07RE1	64-19-7	In house	07/29/2026 10:51	07/29/2026 10:51	1090		14.3	100	200	mg/L	MGC
Butyric Acid	07	107-92-6	In house	07/29/2026 00:32	07/29/2026 00:32	378		7.0	50.0	100	mg/L	MGC
Lactic Acid	07	50-21-5	In house	07/29/2026 00:32	07/29/2026 00:32	132		5.6	50.0	100	mg/L	MGC
Propionic Acid	07	79-09-4	In house	07/29/2026 00:32	07/29/2026 00:32	400		5.7	50.0	100	mg/L	MGC
Pyruvic Acid	07	127-17-3	In house	07/29/2026 00:32	07/29/2026 00:32	25.0	J	8.9	50.0	100	mg/L	MGC

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-94

Laboratory Sample ID: 26G1507-07

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Wet Chemistry Analysis												
Ammonia as N	07	7664-41-7	EPA350.1 R2.0	07/28/2026 12:15	07/28/2026 12:15	534		120	200	2000	mg/L	AAL
BOD	07	E1640606	SM5210B-20 16	07/16/2026 13:05	07/16/2026 13:05	9720		0.2	2.0	1	mg/L	CET
COD	07	NA	SM5220D-20 11	07/29/2026 13:54	07/29/2026 13:54	36700		6300	10000	1000	mg/L	WGW
Nitrate as N	07	14797-55-8	SM4500-NO 3F-2019CAL C	07/29/2026 10:00	07/29/2026 12:37	BLOD		0.145	0.200	10	mg/L	LNLM
Nitrate+Nitrite as N	07	E701177	SM4500-NO 3F-2019	07/29/2026 10:00	07/29/2026 12:37	BLOD		0.14	0.20	10	mg/L	AAL
Nitrite as N	07	14797-65-0	SM4500-NO 2B-2021	07/16/2026 12:07	07/16/2026 13:00	BLOD		0.03	0.10	1	mg/L	LNLM
Total Recoverable Phenolics	07	NA	SW9065	07/24/2026 15:31	07/24/2026 15:31	18.8		3.09	5.00	100	mg/L	KJM
TKN as N	07	E17148461	EPA351.2 R2.0	07/23/2026 13:36	07/24/2026 11:30	545		45.9	50.0	1	mg/L	CSS

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-98

Laboratory Sample ID: 26G1507-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	08RE1	7440-22-4	SW6020B	07/20/2026 17:00	07/22/2026 11:49	BLOD		0.110	1.00	10	ug/L	AB
Arsenic	08RE1	7440-38-2	SW6020B	07/20/2026 17:00	07/22/2026 11:49	53		1.5	4.0	10	ug/L	AB
Barium	08RE1	7440-39-3	SW6020B	07/20/2026 17:00	07/22/2026 11:49	192		5.70	50.0	10	ug/L	AB
Cadmium	08RE1	7440-43-9	SW6020B	07/20/2026 17:00	07/22/2026 11:49	BLOD		0.500	4.00	10	ug/L	AB
Chromium	08RE1	7440-47-3	SW6020B	07/20/2026 17:00	07/22/2026 11:49	8.73	J	3.20	10.0	10	ug/L	AB
Copper	08RE1	7440-50-8	SW6020B	07/20/2026 17:00	07/22/2026 11:49	BLOD		3.60	10.0	10	ug/L	AB
Mercury	08	7439-97-6	SW6020B	07/20/2026 17:00	07/22/2026 12:09	0.289		0.0270	0.200	1	ug/L	AB
Nickel	08RE1	7440-02-0	SW6020B	07/20/2026 17:00	07/22/2026 11:49	5.737	J	2.500	10.00	10	ug/L	AB
Lead	08	7439-92-1	SW6020B	07/20/2026 17:00	07/22/2026 12:09	BLOD		0.25	1.0	1	ug/L	AB
Selenium	08RE1	7782-49-2	SW6020B	07/20/2026 17:00	07/22/2026 11:49	BLOD		1.80	10.0	10	ug/L	AB
Zinc	08RE1	7440-66-6	SW6020B	07/20/2026 17:00	07/22/2026 11:49	23.9	J	12.1	50.0	10	ug/L	AB

Volatile Organic Compounds by GCMS

Sample Qualifier: pH

2-Butanone (MEK)	08	78-93-3	SW8260D	07/18/2026 02:30	07/18/2026 02:30	12500		97.0	100	100	ug/L	JWR
Acetone	08RE1	67-64-1	SW8260D	07/24/2026 21:32	07/24/2026 21:32	14800		277	400	100	ug/L	NSD
Benzene	08	71-43-2	SW8260D	07/18/2026 02:30	07/18/2026 02:30	10800		13.9	40.0	100	ug/L	JWR
Ethylbenzene	08	100-41-4	SW8260D	07/18/2026 02:30	07/18/2026 02:30	1300		15.1	40.0	100	ug/L	JWR
Toluene	08	108-88-3	SW8260D	07/18/2026 02:30	07/18/2026 02:30	880		16.0	40.0	100	ug/L	JWR
Xylenes, Total	08	1330-20-7	SW8260D	07/18/2026 02:30	07/18/2026 02:30	2670		43.8	300	100	ug/L	JWR
Tetrahydrofuran	08	109-99-9	SW8260D	07/18/2026 02:30	07/18/2026 02:30	14100		75.4	100	100	ug/L	JWR
Surr: 1,2-Dichloroethane-d4 (Surr)	08	98.9 %	70-120	07/18/2026 02:30	07/18/2026 02:30							
Surr: 4-Bromofluorobenzene (Surr)	08	97.6 %	75-120	07/18/2026 02:30	07/18/2026 02:30							
Surr: Dibromofluoromethane (Surr)	08	96.1 %	70-130	07/18/2026 02:30	07/18/2026 02:30							
Surr: Toluene-d8 (Surr)	08	99.7 %	70-130	07/18/2026 02:30	07/18/2026 02:30							
Surr: 1,2-Dichloroethane-d4 (Surr)	08RE1	95.7 %	70-120	07/24/2026 21:32	07/24/2026 21:32							

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: EW-98

Laboratory Sample ID: 26G1507-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS						Sample Qualifier: pH						
Surr: 4-Bromofluorobenzene (Surr)	08RE1	100 %	75-120	07/24/2026 21:32	07/24/2026 21:32							
Surr: Dibromofluoromethane (Surr)	08RE1	95.0 %	70-130	07/24/2026 21:32	07/24/2026 21:32							
Surr: Toluene-d8 (Surr)	08RE1	104 %	70-130	07/24/2026 21:32	07/24/2026 21:32							
Semivolatile Organic Compounds by GCMS												
Anthracene	08	120-12-7	SW8270E	07/20/2026 08:40	07/21/2026 02:46	BLOD		100	200	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	08	90.6 %	5-136	07/20/2026 08:40	07/21/2026 02:46							
Surr: 2-Fluorobiphenyl (Surr)	08	61.4 %	9-117	07/20/2026 08:40	07/21/2026 02:46							
Surr: 2-Fluorophenol (Surr)	08	30.4 %	5-60	07/20/2026 08:40	07/21/2026 02:46							
Surr: Nitrobenzene-d5 (Surr)	08	296 %	5-151	07/20/2026 08:40	07/21/2026 02:46							DS
Surr: Phenol-d5 (Surr)	08	4.20 %	5-60	07/20/2026 08:40	07/21/2026 02:46							DS
Surr: p-Terphenyl-d14 (Surr)	08	59.8 %	5-141	07/20/2026 08:40	07/21/2026 02:46							

Certificate of Analysis

Client Name: SCS Engineers - Winchester

Date Issued: 7/29/2026 5:49:17PM

Client Site I.D.: Bristol LFG - EW Monthly

Submitted To: Jennifer Robb

Work Order: 26G1507

Client Sample ID: EW-98

Laboratory Sample ID: 26G1507-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Ion Chromatography Analyses												
Acetic Acid	08	64-19-7	In house	07/29/2026 01:04	07/29/2026 01:04	157		7.1	50.0	100	mg/L	MGC
Butyric Acid	08	107-92-6	In house	07/29/2026 01:04	07/29/2026 01:04	77.2		7.0	50.0	100	mg/L	MGC
Lactic Acid	08	50-21-5	In house	07/29/2026 01:04	07/29/2026 01:04	7.1	J	5.6	50.0	100	mg/L	MGC
Propionic Acid	08	79-09-4	In house	07/29/2026 01:04	07/29/2026 01:04	55.2		5.7	50.0	100	mg/L	MGC
Pyruvic Acid	08	127-17-3	In house	07/29/2026 01:04	07/29/2026 01:04	11.6	J	8.9	50.0	100	mg/L	MGC

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
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Work Order: 26G1507

Client Sample ID: EW-98

Laboratory Sample ID: 26G1507-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Wet Chemistry Analysis												
Ammonia as N	08	7664-41-7	EPA350.1 R2.0	07/28/2026 12:17	07/28/2026 12:17	123		60.0	100	1000	mg/L	AAL
BOD	08	E1640606	SM5210B-20 16	07/16/2026 13:02	07/16/2026 13:02	1050		0.2	2.0	1	mg/L	CET
COD	08	NA	SM5220D-20 11	07/29/2026 13:54	07/29/2026 13:54	3580	J	3150	5000	500	mg/L	WGW
Nitrate as N	08	14797-55-8	SM4500-NO 3F-2019CAL C	07/29/2026 10:00	07/29/2026 12:38	BLOD		0.145	0.200	10	mg/L	LNLM
Nitrate+Nitrite as N	08	E701177	SM4500-NO 3F-2019	07/29/2026 10:00	07/29/2026 12:38	BLOD		0.14	0.20	10	mg/L	AAL
Nitrite as N	08	14797-65-0	SM4500-NO 2B-2021	07/16/2026 12:07	07/16/2026 13:00	BLOD		0.03	0.10	1	mg/L	LNLM
Total Recoverable Phenolics	08RE1	NA	SW9065	07/28/2026 15:06	07/28/2026 15:06	1.07		0.175	0.250	5	mg/L	KJM
TKN as N	08	E17148461	EPA351.2 R2.0	07/22/2026 09:00	07/23/2026 10:42	112		45.9	50.0	1	mg/L	CSS

Certificate of Analysis

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Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Client Sample ID: Trip Blank

Laboratory Sample ID: 26G1507-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS												
2-Butanone (MEK)	09	78-93-3	SW8260D	07/17/2026 20:24	07/17/2026 20:24	BLOD		0.97	10.0	1	ug/L	JWR
Acetone	09	67-64-1	SW8260D	07/17/2026 20:24	07/17/2026 20:24	BLOD		2.77	10.0	1	ug/L	JWR
Benzene	09	71-43-2	SW8260D	07/17/2026 20:24	07/17/2026 20:24	BLOD		0.14	1.00	1	ug/L	JWR
Ethylbenzene	09	100-41-4	SW8260D	07/17/2026 20:24	07/17/2026 20:24	BLOD		0.15	1.00	1	ug/L	JWR
Toluene	09	108-88-3	SW8260D	07/17/2026 20:24	07/17/2026 20:24	BLOD		0.16	1.00	1	ug/L	JWR
Xylenes, Total	09	1330-20-7	SW8260D	07/17/2026 20:24	07/17/2026 20:24	BLOD		0.44	3.00	1	ug/L	JWR
Tetrahydrofuran	09	109-99-9	SW8260D	07/17/2026 20:24	07/17/2026 20:24	BLOD		0.75	10.0	1	ug/L	JWR
Surr: 1,2-Dichloroethane-d4 (Surr)	09	94.8 %	70-120	07/17/2026 20:24	07/17/2026 20:24							
Surr: 4-Bromofluorobenzene (Surr)	09	96.3 %	75-120	07/17/2026 20:24	07/17/2026 20:24							
Surr: Dibromofluoromethane (Surr)	09	97.5 %	70-130	07/17/2026 20:24	07/17/2026 20:24							
Surr: Toluene-d8 (Surr)	09	99.5 %	70-130	07/17/2026 20:24	07/17/2026 20:24							

Certificate of Analysis

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Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ0932 - SW3005A-ICPMS

Blank (BJG0932-BLK1)

Prepared: 07/20/2026 Analyzed: 07/22/2026

Mercury	ND	0.200	ug/L
Arsenic	ND	1.0	ug/L
Barium	ND	5.00	ug/L
Cadmium	ND	1.00	ug/L
Chromium	ND	1.00	ug/L
Copper	ND	1.00	ug/L
Lead	ND	1.0	ug/L
Nickel	ND	1.000	ug/L
Selenium	ND	1.00	ug/L
Silver	ND	1.00	ug/L
Zinc	ND	5.00	ug/L

LCS (BJG0932-BS1)

Prepared: 07/20/2026 Analyzed: 07/22/2026

Mercury	1.01	0.200	ug/L	1.00	101	80-120
Arsenic	50	1.0	ug/L	50.0	101	80-120
Barium	51.2	5.00	ug/L	50.0	102	80-120
Cadmium	50.2	1.00	ug/L	50.0	100	80-120
Chromium	51.8	1.00	ug/L	50.0	104	80-120
Copper	51.2	1.00	ug/L	50.0	102	80-120
Lead	50	1.0	ug/L	50.0	100	80-120
Nickel	51.04	1.000	ug/L	50.0	102	80-120
Selenium	49.8	1.00	ug/L	50.0	99.6	80-120
Silver	10.0	1.00	ug/L	10.0	100	80-120
Zinc	51.4	5.00	ug/L	50.0	103	80-120

Matrix Spike (BJG0932-MS1)

Source: 26G1891-06

Prepared: 07/20/2026 Analyzed: 07/22/2026

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0932 - SW3005A-ICPMS

Matrix Spike (BJG0932-MS1) **Source: 26G1891-06** Prepared: 07/20/2026 Analyzed: 07/22/2026

Mercury	1.01	0.200	ug/L	1.00	BLOD	101	70-130
Arsenic	51	1.0	ug/L	50.0	BLOD	102	75-125
Barium	65.3	5.00	ug/L	50.0	13.1	104	75-125
Cadmium	51.2	1.00	ug/L	50.0	BLOD	102	75-125
Chromium	55.2	1.00	ug/L	50.0	2.66	105	75-125
Copper	52.1	1.00	ug/L	50.0	BLOD	104	75-125
Lead	51	1.0	ug/L	50.0	BLOD	102	75-125
Nickel	53.26	1.000	ug/L	50.0	0.8487	105	75-125
Selenium	49.7	1.00	ug/L	50.0	0.242	98.9	75-125
Silver	10.3	1.00	ug/L	10.0	BLOD	103	75-125
Zinc	52.1	5.00	ug/L	50.0	BLOD	104	75-125

Matrix Spike Dup (BJG0932-MSD1) **Source: 26G1891-06** Prepared: 07/20/2026 Analyzed: 07/22/2026

Mercury	1.00	0.200	ug/L	1.00	BLOD	100	70-130	0.490	20
Arsenic	51	1.0	ug/L	50.0	BLOD	101	75-125	0.708	20
Barium	65.5	5.00	ug/L	50.0	13.1	105	75-125	0.346	20
Cadmium	50.5	1.00	ug/L	50.0	BLOD	101	75-125	1.46	20
Chromium	52.8	1.00	ug/L	50.0	2.66	100	75-125	4.40	20
Copper	51.2	1.00	ug/L	50.0	BLOD	102	75-125	1.68	20
Lead	51	1.0	ug/L	50.0	BLOD	102	75-125	0.340	20
Nickel	52.11	1.000	ug/L	50.0	0.8487	103	75-125	2.18	20
Selenium	50.2	1.00	ug/L	50.0	0.242	100	75-125	1.01	20
Silver	10.2	1.00	ug/L	10.0	BLOD	102	75-125	0.656	20
Zinc	51.9	5.00	ug/L	50.0	BLOD	104	75-125	0.383	20

Batch BJG1026 - SW3005A-ICPMS

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ1026 - SW3005A-ICPMS

Blank (BJG1026-BLK1)

Prepared: 07/21/2026 Analyzed: 07/23/2026

Mercury	ND	0.200	ug/L
Arsenic	ND	1.0	ug/L
Barium	ND	5.00	ug/L
Cadmium	ND	1.00	ug/L
Chromium	ND	1.00	ug/L
Copper	ND	1.00	ug/L
Lead	ND	1.0	ug/L
Nickel	ND	1.000	ug/L
Selenium	ND	1.00	ug/L
Silver	ND	1.00	ug/L
Zinc	ND	5.00	ug/L

LCS (BJG1026-BS1)

Prepared: 07/21/2026 Analyzed: 07/23/2026

Mercury	0.991	0.200	ug/L	1.00	99.1	80-120
Arsenic	51	1.0	ug/L	50.0	101	80-120
Barium	50.6	5.00	ug/L	50.0	101	80-120
Cadmium	51.4	1.00	ug/L	50.0	103	80-120
Chromium	53.3	1.00	ug/L	50.0	107	80-120
Copper	53.0	1.00	ug/L	50.0	106	80-120
Lead	51	1.0	ug/L	50.0	101	80-120
Nickel	52.75	1.000	ug/L	50.0	106	80-120
Selenium	49.9	1.00	ug/L	50.0	99.7	80-120
Silver	10.3	1.00	ug/L	10.0	103	80-120
Zinc	51.4	5.00	ug/L	50.0	103	80-120

Matrix Spike (BJG1026-MS1)

Source: 26G1507-06

Prepared: 07/21/2026 Analyzed: 07/23/2026

Certificate of Analysis

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Work Order: 26G1507

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ1026 - SW3005A-ICPMS

Matrix Spike (BJG1026-MS1)		Source: 26G1507-06		Prepared: 07/21/2026 Analyzed: 07/23/2026						
Mercury	3.60	2.00	ug/L	1.00	2.48	112	70-130			
Arsenic	370	4.0	ug/L	50.0	310	118	75-125			
Barium	5350	50.0	ug/L	50.0	5130	442	75-125			M2
Cadmium	51.8	4.00	ug/L	50.0	1.12	101	75-125			
Chromium	236	10.0	ug/L	50.0	189	92.2	75-125			
Copper	49.8	10.0	ug/L	50.0	4.01	91.6	75-125			
Lead	54	10	ug/L	50.0	BLOD	107	75-125			
Nickel	102.3	10.00	ug/L	50.0	53.62	97.3	75-125			
Selenium	52.4	10.0	ug/L	50.0	3.74	97.4	75-125			
Silver	10.3	1.00	ug/L	10.0	BLOD	103	75-125			
Zinc	125	50.0	ug/L	50.0	81.7	87.1	75-125			

Matrix Spike Dup (BJG1026-MSD1)		Source: 26G1507-06		Prepared: 07/21/2026 Analyzed: 07/23/2026						
Mercury	3.49	2.00	ug/L	1.00	2.48	101	70-130	3.06	20	
Arsenic	380	4.0	ug/L	50.0	310	132	75-125	1.79	20	M2
Barium	5320	50.0	ug/L	50.0	5130	378	75-125	0.592	20	M2
Cadmium	51.6	4.00	ug/L	50.0	1.12	101	75-125	0.488	20	
Chromium	242	10.0	ug/L	50.0	189	106	75-125	2.90	20	
Copper	50.5	10.0	ug/L	50.0	4.01	93.1	75-125	1.44	20	
Lead	54	10	ug/L	50.0	BLOD	108	75-125	0.796	20	
Nickel	104.6	10.00	ug/L	50.0	53.62	102	75-125	2.20	20	
Selenium	49.3	10.0	ug/L	50.0	3.74	91.0	75-125	6.26	20	
Silver	10.3	1.00	ug/L	10.0	BLOD	103	75-125	0.122	20	
Zinc	126	50.0	ug/L	50.0	81.7	88.5	75-125	0.559	20	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ0895 - SW5030B-MS

Blank (BJG0895-BLK1)

Prepared & Analyzed: 07/17/2026

<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	60.5		ug/L	50.0		121	70-120			S
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	49.8		ug/L	50.0		99.5	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	56.2		ug/L	50.0		112	70-130			
<i>Surr: Toluene-d8 (Surr)</i>	50.8		ug/L	50.0		102	70-130			

Blank (BJG0895-BLK2)

Prepared & Analyzed: 07/17/2026

2-Butanone (MEK)	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Benzene	ND	1.00	ug/L							
Ethylbenzene	ND	1.00	ug/L							
Toluene	ND	1.00	ug/L							
Xylenes, Total	ND	3.00	ug/L							
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	62.0		ug/L	50.0		124	70-120			S
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	49.1		ug/L	50.0		98.2	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	55.8		ug/L	50.0		112	70-130			
<i>Surr: Toluene-d8 (Surr)</i>	51.3		ug/L	50.0		103	70-130			

LCS (BJG0895-BS1)

Prepared & Analyzed: 07/17/2026

1,1,1,2-Tetrachloroethane	47.8		ug/L	50.0		95.5	80-130			
1,1,1-Trichloroethane	48.1		ug/L	50.0		96.2	65-130			
1,1,2,2-Tetrachloroethane	60.1		ug/L	50.0		120	65-130			
1,1,2-Trichloroethane	56.5		ug/L	50.0		113	75-125			
1,1-Dichloroethane	58.0		ug/L	50.0		116	70-135			
1,1-Dichloroethylene	39.6		ug/L	50.0		79.3	70-130			
1,1-Dichloropropene	53.1		ug/L	50.0		106	75-135			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0895 - SW5030B-MS

LCS (BJG0895-BS1)

Prepared & Analyzed: 07/17/2026

1,2,3-Trichlorobenzene	54.2		ug/L	50.0		108	55-140			
1,2,3-Trichloropropane	55.9		ug/L	50.0		112	75-125			
1,2,4-Trichlorobenzene	55.1		ug/L	50.0		110	65-135			
1,2,4-Trimethylbenzene	52.5		ug/L	50.0		105	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	56.8		ug/L	50.0		114	50-130			
1,2-Dibromoethane (EDB)	54.0		ug/L	50.0		108	80-120			
1,2-Dichlorobenzene	51.9		ug/L	50.0		104	70-120			
1,2-Dichloroethane	51.5		ug/L	50.0		103	70-130			
1,2-Dichloropropane	56.6		ug/L	50.0		113	75-125			
1,3,5-Trimethylbenzene	51.9		ug/L	50.0		104	75-125			
1,3-Dichlorobenzene	51.8		ug/L	50.0		104	75-125			
1,3-Dichloropropane	55.5		ug/L	50.0		111	75-125			
1,4-Dichlorobenzene	51.0		ug/L	50.0		102	75-125			
2,2-Dichloropropane	52.8		ug/L	50.0		106	70-135			
2-Butanone (MEK)	63.4		ug/L	50.0		127	30-150			
2-Chlorotoluene	51.0		ug/L	50.0		102	75-125			
2-Hexanone (MBK)	63.3		ug/L	50.0		127	55-130			
4-Chlorotoluene	51.6		ug/L	50.0		103	75-130			
4-Isopropyltoluene	51.3		ug/L	50.0		103	75-130			
4-Methyl-2-pentanone (MIBK)	63.7		ug/L	50.0		127	60-135			
Acetone	50.8		ug/L	50.0		102	40-140			
Benzene	51.2		ug/L	50.0		102	80-120			
Bromobenzene	44.8		ug/L	50.0		89.7	75-125			
Bromochloromethane	53.5		ug/L	50.0		107	65-130			
Bromodichloromethane	48.8		ug/L	50.0		97.5	75-120			

Certificate of Analysis

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Work Order: 26G1507

Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0895 - SW5030B-MS

LCS (BJG0895-BS1)

Prepared & Analyzed: 07/17/2026

Bromoform	40.5		ug/L	50.0		81.0	70-130			
Bromomethane	55.5		ug/L	50.0		111	30-145			
Carbon disulfide	45.9		ug/L	50.0		91.9	35-160			
Carbon tetrachloride	42.1		ug/L	50.0		84.2	65-140			
Chlorobenzene	48.0		ug/L	50.0		96.0	80-120			
Chloroethane	64.6		ug/L	50.0		129	60-135			
Chloroform	50.6		ug/L	50.0		101	65-135			
Chloromethane	66.2		ug/L	50.0		132	40-125			L
cis-1,2-Dichloroethylene	55.2		ug/L	50.0		110	70-125			
cis-1,3-Dichloropropene	55.2		ug/L	50.0		110	70-130			
Dibromochloromethane	53.8		ug/L	50.0		108	60-135			
Dibromomethane	51.8		ug/L	50.0		104	75-125			
Dichlorodifluoromethane	55.0		ug/L	50.0		110	30-155			
Ethylbenzene	48.5		ug/L	50.0		97.0	75-125			
Hexachlorobutadiene	48.3		ug/L	50.0		96.5	50-140			
Isopropylbenzene	44.5		ug/L	50.0		89.0	75-125			
m+p-Xylenes	97.1		ug/L	100		97.1	75-130			
Methylene chloride	43.2		ug/L	50.0		86.5	55-140			
Methyl-t-butyl ether (MTBE)	58.0		ug/L	50.0		116	65-125			
Naphthalene	58.4		ug/L	50.0		117	55-140			
n-Butylbenzene	57.2		ug/L	50.0		114	70-135			
n-Propylbenzene	52.0		ug/L	50.0		104	70-130			
o-Xylene	48.7		ug/L	50.0		97.4	80-120			
sec-Butylbenzene	53.6		ug/L	50.0		107	70-125			
Styrene	50.8		ug/L	50.0		102	65-135			

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0895 - SW5030B-MS

LCS (BJG0895-BS1)

Prepared & Analyzed: 07/17/2026

tert-Butylbenzene	49.2		ug/L	50.0		98.3	70-130			
Tetrachloroethylene (PCE)	39.6		ug/L	50.0		79.2	45-150			
Toluene	48.4		ug/L	50.0		96.7	75-120			
trans-1,2-Dichloroethylene	54.3		ug/L	50.0		109	60-140			
trans-1,3-Dichloropropene	55.5		ug/L	50.0		111	55-140			
Trichloroethylene	47.3		ug/L	50.0		94.5	70-125			
Trichlorofluoromethane	48.9		ug/L	50.0		97.7	60-145			
Vinyl chloride	42.0		ug/L	50.0		83.9	50-145			
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>57.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>115</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>47.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.6</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>55.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>111</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>50.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-130</i>			

Duplicate (BJG0895-DUP1)

Source: 26G0713-22

Prepared & Analyzed: 07/17/2026

1,1,1,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	
1,1,1-Trichloroethane	ND	1.00	ug/L		BLOD				30	
1,1,2,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	
1,1,2-Trichloroethane	ND	1.00	ug/L		BLOD				30	
1,1-Dichloroethane	0.54	1.00	ug/L		0.49			9.71	30	
1,1-Dichloroethylene	ND	1.00	ug/L		BLOD				30	
1,1-Dichloropropene	ND	1.00	ug/L		BLOD				30	
1,2,3-Trichlorobenzene	ND	1.00	ug/L		BLOD				30	
1,2,3-Trichloropropane	ND	1.00	ug/L		BLOD				30	
1,2,4-Trichlorobenzene	ND	1.00	ug/L		BLOD				30	
1,2,4-Trimethylbenzene	ND	1.00	ug/L		BLOD				30	

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0895 - SW5030B-MS

Duplicate (BJG0895-DUP1)

Source: 26G0713-22

Prepared & Analyzed: 07/17/2026

1,2-Dibromo-3-chloropropane (DBCP)	ND	1.00	ug/L		BLOD				30	
1,2-Dibromoethane (EDB)	ND	1.00	ug/L		BLOD				30	
1,2-Dichlorobenzene	ND	0.50	ug/L		BLOD				30	
1,2-Dichloroethane	ND	1.00	ug/L		BLOD				30	
1,2-Dichloropropane	ND	0.50	ug/L		BLOD				30	
1,3,5-Trimethylbenzene	ND	1.00	ug/L		BLOD				30	
1,3-Dichlorobenzene	ND	1.00	ug/L		BLOD				30	
1,3-Dichloropropane	ND	1.00	ug/L		BLOD				30	
1,4-Dichlorobenzene	0.26	1.00	ug/L		0.26			0.00	30	
2,2-Dichloropropane	ND	1.00	ug/L		BLOD				30	
2-Butanone (MEK)	ND	10.0	ug/L		BLOD				30	
2-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
2-Hexanone (MBK)	ND	5.00	ug/L		BLOD				30	
4-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
4-Isopropyltoluene	ND	1.00	ug/L		BLOD				30	
4-Methyl-2-pentanone (MIBK)	ND	5.00	ug/L		BLOD				30	
Acetone	ND	10.0	ug/L		4.56				30	
Benzene	ND	1.00	ug/L		BLOD				30	
Bromobenzene	ND	1.00	ug/L		BLOD				30	
Bromochloromethane	ND	1.00	ug/L		BLOD				30	
Bromodichloromethane	ND	0.50	ug/L		BLOD				30	
Bromoform	ND	1.00	ug/L		BLOD				30	
Bromomethane	ND	1.00	ug/L		BLOD				30	
Carbon disulfide	ND	10.0	ug/L		BLOD				30	
Carbon tetrachloride	ND	1.00	ug/L		BLOD				30	

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG0895 - SW5030B-MS										
Duplicate (BJG0895-DUP1)		Source: 26G0713-22			Prepared & Analyzed: 07/17/2026					
Chlorobenzene	0.33	1.00	ug/L		0.31			6.25	30	
Chloroethane	0.18	1.00	ug/L		0.21			15.4	30	
Chloroform	ND	0.50	ug/L		BLOD				30	
Chloromethane	ND	1.00	ug/L		BLOD				30	
cis-1,2-Dichloroethylene	0.40	1.00	ug/L		0.40			0.00	30	
cis-1,3-Dichloropropene	ND	1.00	ug/L		BLOD				30	
Dibromochloromethane	ND	0.50	ug/L		BLOD				30	
Dibromomethane	ND	1.00	ug/L		BLOD				30	
Dichlorodifluoromethane	ND	1.00	ug/L		BLOD				30	
Di-isopropyl ether (DIPE)	ND	5.00	ug/L		BLOD				30	
Ethylbenzene	ND	1.00	ug/L		BLOD				30	
Hexachlorobutadiene	ND	0.80	ug/L		BLOD				30	
Iodomethane	ND	10.0	ug/L		BLOD				30	
Isopropylbenzene	ND	1.00	ug/L		BLOD				30	
m+p-Xylenes	ND	2.00	ug/L		BLOD				30	
Methylene chloride	ND	4.00	ug/L		BLOD				30	
Methyl-t-butyl ether (MTBE)	0.22	1.00	ug/L		0.23			4.44	30	
Naphthalene	ND	1.00	ug/L		BLOD				30	
n-Butylbenzene	ND	1.00	ug/L		BLOD				30	
n-Propylbenzene	ND	1.00	ug/L		BLOD				30	
o-Xylene	ND	1.00	ug/L		BLOD				30	
sec-Butylbenzene	ND	1.00	ug/L		BLOD				30	
Styrene	ND	1.00	ug/L		BLOD				30	
tert-Butylbenzene	ND	1.00	ug/L		BLOD				30	
Tetrachloroethylene (PCE)	ND	1.00	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0895 - SW5030B-MS

Duplicate (BJG0895-DUP1)		Source: 26G0713-22		Prepared & Analyzed: 07/17/2026						
Toluene	ND	1.00	ug/L		BLOD				30	
trans-1,2-Dichloroethylene	ND	1.00	ug/L		BLOD				30	
trans-1,3-Dichloropropene	ND	1.00	ug/L		BLOD				30	
Trichloroethylene	ND	1.00	ug/L		BLOD				30	
Trichlorofluoromethane	ND	1.00	ug/L		BLOD				30	
Vinyl acetate	ND	10.0	ug/L		BLOD				30	
Vinyl chloride	0.24	0.50	ug/L		BLOD				30	
Xylenes, Total	ND	3.00	ug/L		BLOD				30	
Tetrahydrofuran	ND	10.0	ug/L		BLOD				30	
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	62.5		ug/L	50.0		125	70-120			S
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	49.7		ug/L	50.0		99.4	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	57.0		ug/L	50.0		114	70-130			
<i>Surr: Toluene-d8 (Surr)</i>	51.5		ug/L	50.0		103	70-130			

Matrix Spike (BJG0895-MS1)		Source: 26G0713-21		Prepared & Analyzed: 07/17/2026						
1,1,1,2-Tetrachloroethane	50.4		ug/L	50.0	BLOD	101	80-130			
1,1,1-Trichloroethane	56.5		ug/L	50.0	BLOD	113	65-130			
1,1,2,2-Tetrachloroethane	55.8		ug/L	50.0	BLOD	112	65-130			
1,1,2-Trichloroethane	56.5		ug/L	50.0	BLOD	113	75-125			
1,1-Dichloroethane	66.4		ug/L	50.0	BLOD	133	70-135			
1,1-Dichloroethylene	50.1		ug/L	50.0	BLOD	100	50-145			
1,1-Dichloropropene	63.0		ug/L	50.0	BLOD	126	75-135			
1,2,3-Trichlorobenzene	56.3		ug/L	50.0	BLOD	113	55-140			
1,2,3-Trichloropropane	51.1		ug/L	50.0	BLOD	102	75-125			
1,2,4-Trichlorobenzene	56.9		ug/L	50.0	BLOD	114	65-135			

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Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ0895 - SW5030B-MS										
Matrix Spike (BJG0895-MS1)		Source: 26G0713-21		Prepared & Analyzed: 07/17/2026						
1,2,4-Trimethylbenzene	57.1		ug/L	50.0	BLOD	114	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	50.9		ug/L	50.0	BLOD	102	50-130			
1,2-Dibromoethane (EDB)	51.6		ug/L	50.0	BLOD	103	80-120			
1,2-Dichlorobenzene	54.1		ug/L	50.0	BLOD	108	70-120			
1,2-Dichloroethane	52.2		ug/L	50.0	BLOD	104	70-130			
1,2-Dichloropropane	62.0		ug/L	50.0	BLOD	124	75-125			
1,3,5-Trimethylbenzene	56.9		ug/L	50.0	BLOD	114	75-124			
1,3-Dichlorobenzene	55.5		ug/L	50.0	BLOD	111	75-125			
1,3-Dichloropropane	56.5		ug/L	50.0	BLOD	113	75-125			
1,4-Dichlorobenzene	54.3		ug/L	50.0	BLOD	109	75-125			
2,2-Dichloropropane	61.3		ug/L	50.0	BLOD	123	70-135			
2-Butanone (MEK)	66.6		ug/L	50.0	BLOD	131	30-150			
2-Chlorotoluene	56.5		ug/L	50.0	BLOD	113	75-125			
2-Hexanone (MBK)	65.1		ug/L	50.0	BLOD	130	55-130			M
4-Chlorotoluene	56.7		ug/L	50.0	BLOD	113	75-130			
4-Isopropyltoluene	57.5		ug/L	50.0	BLOD	115	75-130			
4-Methyl-2-pentanone (MIBK)	68.9		ug/L	50.0	BLOD	138	60-135			M
Acetone	57.8		ug/L	50.0	8.37	99.0	40-140			
Benzene	58.1		ug/L	50.0	BLOD	116	80-120			
Bromobenzene	46.9		ug/L	50.0	BLOD	93.8	75-125			
Bromochloromethane	55.6		ug/L	50.0	BLOD	111	65-130			
Bromodichloromethane	52.5		ug/L	50.0	0.23	105	75-136			
Bromoform	38.3		ug/L	50.0	BLOD	76.7	70-130			
Bromomethane	64.0		ug/L	50.0	BLOD	128	30-145			
Carbon disulfide	49.5		ug/L	50.0	BLOD	99.0	35-160			

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Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0895 - SW5030B-MS

Matrix Spike (BJG0895-MS1)		Source: 26G0713-21		Prepared & Analyzed: 07/17/2026						
Carbon tetrachloride	49.6		ug/L	50.0	BLOD	99.1	65-140			
Chlorobenzene	51.3		ug/L	50.0	BLOD	103	80-120			
Chloroethane	69.2		ug/L	50.0	BLOD	138	60-135			M
Chloroform	56.9		ug/L	50.0	1.41	111	65-135			
Chloromethane	78.2		ug/L	50.0	BLOD	156	40-125			M
cis-1,2-Dichloroethylene	62.2		ug/L	50.0	BLOD	124	70-125			
cis-1,3-Dichloropropene	59.1		ug/L	50.0	BLOD	118	47-136			
Dibromochloromethane	54.5		ug/L	50.0	BLOD	109	60-135			
Dibromomethane	52.5		ug/L	50.0	BLOD	105	75-125			
Dichlorodifluoromethane	65.4		ug/L	50.0	BLOD	131	30-155			
Ethylbenzene	54.0		ug/L	50.0	BLOD	108	75-125			
Hexachlorobutadiene	50.9		ug/L	50.0	BLOD	102	50-140			
Isopropylbenzene	49.8		ug/L	50.0	BLOD	99.6	75-125			
m+p-Xylenes	107		ug/L	100	BLOD	107	75-130			
Methylene chloride	48.8		ug/L	50.0	BLOD	96.0	55-140			
Methyl-t-butyl ether (MTBE)	57.6		ug/L	50.0	BLOD	115	65-125			
Naphthalene	56.7		ug/L	50.0	BLOD	113	55-140			
n-Butylbenzene	62.9		ug/L	50.0	BLOD	126	70-135			
n-Propylbenzene	58.4		ug/L	50.0	BLOD	117	70-130			
o-Xylene	52.8		ug/L	50.0	BLOD	106	80-120			
sec-Butylbenzene	58.7		ug/L	50.0	BLOD	117	70-125			
Styrene	54.9		ug/L	50.0	BLOD	110	65-135			
tert-Butylbenzene	55.1		ug/L	50.0	BLOD	110	70-130			
Tetrachloroethylene (PCE)	44.4		ug/L	50.0	BLOD	88.8	51-231			
Toluene	55.4		ug/L	50.0	BLOD	111	75-120			

Certificate of Analysis

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Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ0895 - SW5030B-MS

Matrix Spike (BJG0895-MS1)		Source: 26G0713-21		Prepared & Analyzed: 07/17/2026						
trans-1,2-Dichloroethylene	62.1		ug/L	50.0	BLOD	124	60-140			
trans-1,3-Dichloropropene	57.6		ug/L	50.0	BLOD	115	55-140			
Trichloroethylene	54.1		ug/L	50.0	BLOD	108	70-125			
Trichlorofluoromethane	58.7		ug/L	50.0	BLOD	117	60-145			
Vinyl chloride	47.7		ug/L	50.0	BLOD	95.3	50-145			
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>60.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>120</i>	<i>70-120</i>			<i>S</i>
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.9</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>55.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>111</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>51.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>70-130</i>			

Batch BJJ0926 - SW5030B-MS

Blank (BJG0926-BLK2)		Prepared & Analyzed: 07/17/2026								
2-Butanone (MEK)	ND	1.00	ug/L							
Acetone	ND	4.00	ug/L							
Benzene	ND	0.40	ug/L							
Ethylbenzene	ND	0.40	ug/L							
Toluene	ND	0.40	ug/L							
Xylenes, Total	ND	3.00	ug/L							
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>49.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.2</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>48.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.1</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>49.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.0</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>49.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.5</i>	<i>70-130</i>			

LCS (BJG0926-BS1)		Prepared & Analyzed: 07/17/2026								
1,1,1,2-Tetrachloroethane	50.5		ug/L	50.0		101	80-130			

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Batch BJG0926 - SW5030B-MS										
LCS (BJG0926-BS1)				Prepared & Analyzed: 07/17/2026						
1,1,1-Trichloroethane	66.2		ug/L	50.0		132	65-130			L
1,1,2,2-Tetrachloroethane	39.2		ug/L	50.0		78.3	65-130			
1,1,2-Trichloroethane	47.6		ug/L	50.0		95.1	75-125			
1,1-Dichloroethane	63.3		ug/L	50.0		127	70-135			
1,1-Dichloroethylene	60.4		ug/L	50.0		121	70-130			
1,1-Dichloropropene	58.2		ug/L	50.0		116	75-135			
1,2,3-Trichlorobenzene	48.7		ug/L	50.0		97.5	55-140			
1,2,3-Trichloropropane	44.8		ug/L	50.0		89.6	75-125			
1,2,4-Trichlorobenzene	50.7		ug/L	50.0		101	65-135			
1,2,4-Trimethylbenzene	47.0		ug/L	50.0		93.9	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	42.0		ug/L	50.0		84.1	50-130			
1,2-Dibromoethane (EDB)	48.7		ug/L	50.0		97.5	80-120			
1,2-Dichlorobenzene	50.9		ug/L	50.0		102	70-120			
1,2-Dichloroethane	49.5		ug/L	50.0		99.1	70-130			
1,2-Dichloropropane	50.2		ug/L	50.0		100	75-125			
1,3,5-Trimethylbenzene	44.8		ug/L	50.0		89.6	75-125			
1,3-Dichlorobenzene	52.7		ug/L	50.0		105	75-125			
1,3-Dichloropropane	46.8		ug/L	50.0		93.5	75-125			
1,4-Dichlorobenzene	51.5		ug/L	50.0		103	75-125			
2,2-Dichloropropane	70.3		ug/L	50.0		141	70-135			L
2-Butanone (MEK)	44.0		ug/L	50.0		87.9	30-150			
2-Chlorotoluene	53.8		ug/L	50.0		108	75-125			
2-Hexanone (MBK)	34.4		ug/L	50.0		68.7	55-130			
4-Chlorotoluene	52.2		ug/L	50.0		104	75-130			
4-Isopropyltoluene	46.6		ug/L	50.0		93.2	75-130			

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0926 - SW5030B-MS

LCS (BJG0926-BS1)

Prepared & Analyzed: 07/17/2026

4-Methyl-2-pentanone (MIBK)	42.3		ug/L	50.0		84.6	60-135			
Acetone	39.0		ug/L	50.0		77.9	40-140			
Benzene	46.2		ug/L	50.0		92.4	80-120			
Bromobenzene	49.3		ug/L	50.0		98.6	75-125			
Bromochloromethane	53.5		ug/L	50.0		107	65-130			
Bromodichloromethane	49.4		ug/L	50.0		98.9	75-120			
Bromoform	47.9		ug/L	50.0		95.8	70-130			
Bromomethane	77.8		ug/L	50.0		156	30-145			L
Carbon disulfide	76.3		ug/L	50.0		153	35-160			
Carbon tetrachloride	46.8		ug/L	50.0		93.6	65-140			
Chlorobenzene	50.7		ug/L	50.0		101	80-120			
Chloroethane	64.9		ug/L	50.0		130	60-135			
Chloroform	54.0		ug/L	50.0		108	65-135			
Chloromethane	60.6		ug/L	50.0		121	40-125			
cis-1,2-Dichloroethylene	62.0		ug/L	50.0		124	70-125			
cis-1,3-Dichloropropene	52.1		ug/L	50.0		104	70-130			
Dibromochloromethane	50.8		ug/L	50.0		102	60-135			
Dibromomethane	48.4		ug/L	50.0		96.8	75-125			
Dichlorodifluoromethane	80.7		ug/L	50.0		161	30-155			L
Ethylbenzene	55.1		ug/L	50.0		110	75-125			
Hexachlorobutadiene	57.2		ug/L	50.0		114	50-140			
Isopropylbenzene	55.9		ug/L	50.0		112	75-125			
m+p-Xylenes	109		ug/L	100		109	75-130			
Methylene chloride	54.1		ug/L	50.0		108	55-140			
Methyl-t-butyl ether (MTBE)	52.3		ug/L	50.0		105	65-125			

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0926 - SW5030B-MS

LCS (BJG0926-BS1)

Prepared & Analyzed: 07/17/2026

Naphthalene	46.6		ug/L	50.0		93.2	55-140			
n-Butylbenzene	46.7		ug/L	50.0		93.5	70-135			
n-Propylbenzene	56.9		ug/L	50.0		114	70-130			
o-Xylene	52.2		ug/L	50.0		104	80-120			
sec-Butylbenzene	47.6		ug/L	50.0		95.3	70-125			
Styrene	52.4		ug/L	50.0		105	65-135			
tert-Butylbenzene	57.9		ug/L	50.0		116	70-130			
Tetrachloroethylene (PCE)	41.9		ug/L	50.0		83.7	45-150			
Toluene	51.7		ug/L	50.0		103	75-120			
trans-1,2-Dichloroethylene	66.6		ug/L	50.0		133	60-140			
trans-1,3-Dichloropropene	50.2		ug/L	50.0		100	55-140			
Trichloroethylene	46.2		ug/L	50.0		92.4	70-125			
Trichlorofluoromethane	59.9		ug/L	50.0		120	60-145			
Vinyl chloride	68.6		ug/L	50.0		137	50-145			
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	53.0		ug/L	50.0		106	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	50.5		ug/L	50.0		101	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	53.7		ug/L	50.0		107	70-130			
<i>Surr: Toluene-d8 (Surr)</i>	49.6		ug/L	50.0		99.3	70-130			

Duplicate (BJG0926-DUP1)

Source: 26G1507-06

Prepared & Analyzed: 07/18/2026

1,1,1,2-Tetrachloroethane	ND	40.0	ug/L		BLOD				30	
1,1,1-Trichloroethane	ND	40.0	ug/L		BLOD				30	
1,1,2,2-Tetrachloroethane	ND	40.0	ug/L		BLOD				30	
1,1,2-Trichloroethane	ND	40.0	ug/L		BLOD				30	
1,1-Dichloroethane	ND	40.0	ug/L		BLOD				30	

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG0926 - SW5030B-MS										
Duplicate (BJG0926-DUP1)		Source: 26G1507-06			Prepared & Analyzed: 07/18/2026					
1,1-Dichloroethylene	ND	40.0	ug/L		BLOD				30	
1,1-Dichloropropene	ND	100	ug/L		BLOD				30	
1,2,3-Trichlorobenzene	ND	40.0	ug/L		BLOD				30	
1,2,3-Trichloropropane	ND	100	ug/L		BLOD				30	
1,2,4-Trichlorobenzene	ND	40.0	ug/L		BLOD				30	
1,2,4-Trimethylbenzene	55.0	100	ug/L		55.0			0.00	30	
1,2-Dibromo-3-chloropropane (DBCP)	ND	40.0	ug/L		BLOD				30	
1,2-Dibromoethane (EDB)	ND	40.0	ug/L		BLOD				30	
1,2-Dichlorobenzene	ND	40.0	ug/L		BLOD				30	
1,2-Dichloroethane	ND	40.0	ug/L		BLOD				30	
1,2-Dichloropropane	ND	40.0	ug/L		BLOD				30	
1,3,5-Trimethylbenzene	ND	100	ug/L		52.0				30	
1,3-Dichlorobenzene	ND	40.0	ug/L		BLOD				30	
1,3-Dichloropropane	ND	100	ug/L		BLOD				30	
1,4-Dichlorobenzene	ND	40.0	ug/L		BLOD				30	
2,2-Dichloropropane	ND	100	ug/L		BLOD				30	
2-Butanone (MEK)	21500	100	ug/L		21800			1.60	30	
2-Chlorotoluene	ND	100	ug/L		BLOD				30	
2-Hexanone (MBK)	174	100	ug/L		BLOD				30	
4-Chlorotoluene	ND	100	ug/L		BLOD				30	
4-Isopropyltoluene	66.0	100	ug/L		65.0			1.53	30	
4-Methyl-2-pentanone (MIBK)	439	100	ug/L		443			0.907	30	
Acetone	55800	400	ug/L		57300			2.66	30	
Benzene	557	40.0	ug/L		556			0.180	30	
Bromobenzene	ND	100	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ0926 - SW5030B-MS										
Duplicate (BJG0926-DUP1)		Source: 26G1507-06		Prepared & Analyzed: 07/18/2026						
Bromochloromethane	ND	40.0	ug/L		BLOD				30	
Bromodichloromethane	ND	40.0	ug/L		BLOD				30	
Bromoform	ND	40.0	ug/L		BLOD				30	
Bromomethane	ND	40.0	ug/L		BLOD				30	
Carbon disulfide	ND	40.0	ug/L		BLOD				30	
Carbon tetrachloride	ND	40.0	ug/L		BLOD				30	
Chlorobenzene	ND	40.0	ug/L		BLOD				30	
Chloroethane	ND	40.0	ug/L		BLOD				30	
Chloroform	ND	40.0	ug/L		BLOD				30	
Chloromethane	ND	40.0	ug/L		BLOD				30	
cis-1,2-Dichloroethylene	ND	40.0	ug/L		BLOD				30	
cis-1,3-Dichloropropene	ND	40.0	ug/L		BLOD				30	
Dibromochloromethane	ND	40.0	ug/L		BLOD				30	
Dibromomethane	ND	100	ug/L		BLOD				30	
Dichlorodifluoromethane	ND	40.0	ug/L		BLOD				30	
Di-isopropyl ether (DIPE)	ND	100	ug/L		BLOD				30	
Ethylbenzene	56.0	40.0	ug/L		53.0			5.50	30	
Hexachlorobutadiene	ND	40.0	ug/L		BLOD				30	
Iodomethane	ND	100	ug/L		BLOD				30	
Isopropylbenzene	ND	40.0	ug/L		BLOD				30	
m+p-Xylenes	67.0	80.0	ug/L		61.0			9.38	30	
Methylene chloride	ND	400	ug/L		BLOD				30	
Methyl-t-butyl ether (MTBE)	ND	40.0	ug/L		BLOD				30	
Naphthalene	ND	100	ug/L		BLOD				30	
n-Butylbenzene	ND	100	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ0926 - SW5030B-MS

Duplicate (BJG0926-DUP1)		Source: 26G1507-06		Prepared & Analyzed: 07/18/2026						
n-Propylbenzene	ND	100	ug/L		BLOD				30	
o-Xylene	36.0	40.0	ug/L		33.0			8.70	30	
sec-Butylbenzene	ND	100	ug/L		BLOD				30	
Styrene	ND	40.0	ug/L		BLOD				30	
tert-Butylbenzene	ND	100	ug/L		BLOD				30	
Tetrachloroethylene (PCE)	ND	40.0	ug/L		BLOD				30	
Toluene	58.0	40.0	ug/L		57.0			1.74	30	
trans-1,2-Dichloroethylene	ND	40.0	ug/L		BLOD				30	
trans-1,3-Dichloropropene	ND	40.0	ug/L		BLOD				30	
Trichloroethylene	ND	40.0	ug/L		BLOD				30	
Trichlorofluoromethane	ND	40.0	ug/L		BLOD				30	
Vinyl acetate	ND	100	ug/L		BLOD				30	
Vinyl chloride	ND	40.0	ug/L		BLOD				30	
Xylenes, Total	103	300	ug/L		94.0			9.14	30	
Tetrahydrofuran	5370	100	ug/L		5570			3.69	30	
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>47.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.1</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>49.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.9</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>47.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.9</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>49.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.3</i>	<i>70-130</i>			
Duplicate (BJG0926-DUP2)		Source: 26G1813-01		Prepared & Analyzed: 07/17/2026						
1,1,1,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	
1,1,1-Trichloroethane	ND	0.40	ug/L		BLOD				30	
1,1,2,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	
1,1,2-Trichloroethane	ND	0.40	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG0926 - SW5030B-MS										
Duplicate (BJG0926-DUP2)		Source: 26G1813-01			Prepared & Analyzed: 07/17/2026					
1,1-Dichloroethane	ND	0.40	ug/L		BLOD				30	
1,1-Dichloroethylene	ND	0.40	ug/L		BLOD				30	
1,1-Dichloropropene	ND	1.00	ug/L		BLOD				30	
1,2,3-Trichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,2,3-Trichloropropane	ND	1.00	ug/L		BLOD				30	
1,2,4-Trichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,2,4-Trimethylbenzene	ND	1.00	ug/L		BLOD				30	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.40	ug/L		BLOD				30	
1,2-Dibromoethane (EDB)	ND	0.40	ug/L		BLOD				30	
1,2-Dichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,2-Dichloroethane	ND	0.40	ug/L		BLOD				30	
1,2-Dichloropropane	ND	0.40	ug/L		BLOD				30	
1,3,5-Trimethylbenzene	ND	1.00	ug/L		BLOD				30	
1,3-Dichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,3-Dichloropropane	ND	1.00	ug/L		BLOD				30	
1,4-Dichlorobenzene	ND	0.40	ug/L		BLOD				30	
2,2-Dichloropropane	ND	1.00	ug/L		BLOD				30	
2-Butanone (MEK)	ND	1.00	ug/L		BLOD				30	
2-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
2-Hexanone (MBK)	ND	1.00	ug/L		BLOD				30	
4-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
4-Isopropyltoluene	0.46	1.00	ug/L		0.47			2.15	30	
4-Methyl-2-pentanone (MIBK)	ND	1.00	ug/L		BLOD				30	
Acetone	ND	4.00	ug/L		BLOD				30	
Benzene	ND	0.40	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG0926 - SW5030B-MS										
Duplicate (BJG0926-DUP2)		Source: 26G1813-01			Prepared & Analyzed: 07/17/2026					
Bromobenzene	ND	1.00	ug/L		BLOD				30	
Bromochloromethane	ND	0.40	ug/L		BLOD				30	
Bromodichloromethane	ND	0.40	ug/L		BLOD				30	
Bromoform	ND	0.40	ug/L		BLOD				30	
Bromomethane	0.37	0.40	ug/L		BLOD				30	
Carbon disulfide	ND	0.40	ug/L		BLOD				30	
Carbon tetrachloride	ND	0.40	ug/L		BLOD				30	
Chlorobenzene	ND	0.40	ug/L		BLOD				30	
Chloroethane	ND	0.40	ug/L		BLOD				30	
Chloroform	0.18	0.40	ug/L		0.22			20.0	30	
Chloromethane	ND	0.40	ug/L		BLOD				30	
cis-1,2-Dichloroethylene	ND	0.40	ug/L		BLOD				30	
cis-1,3-Dichloropropene	ND	0.40	ug/L		BLOD				30	
Dibromochloromethane	ND	0.40	ug/L		BLOD				30	
Dibromomethane	ND	1.00	ug/L		BLOD				30	
Dichlorodifluoromethane	ND	0.40	ug/L		BLOD				30	
Di-isopropyl ether (DIPE)	ND	1.00	ug/L		BLOD				30	
Ethylbenzene	ND	0.40	ug/L		BLOD				30	
Hexachlorobutadiene	ND	0.40	ug/L		BLOD				30	
Iodomethane	ND	1.00	ug/L		BLOD				30	
Isopropylbenzene	ND	0.40	ug/L		BLOD				30	
m+p-Xylenes	ND	0.80	ug/L		BLOD				30	
Methylene chloride	ND	4.00	ug/L		BLOD				30	
Methyl-t-butyl ether (MTBE)	ND	0.40	ug/L		BLOD				30	
Naphthalene	ND	1.00	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ0926 - SW5030B-MS										
Duplicate (BJG0926-DUP2) Source: 26G1813-01 Prepared & Analyzed: 07/17/2026										
n-Butylbenzene	0.51	1.00	ug/L		0.51			0.00	30	
n-Propylbenzene	ND	1.00	ug/L		BLOD				30	
o-Xylene	ND	0.40	ug/L		BLOD				30	
sec-Butylbenzene	0.50	1.00	ug/L		0.50			0.00	30	
Styrene	ND	0.40	ug/L		BLOD				30	
tert-Butylbenzene	ND	1.00	ug/L		BLOD				30	
Tetrachloroethylene (PCE)	ND	0.40	ug/L		BLOD				30	
Toluene	ND	0.40	ug/L		BLOD				30	
trans-1,2-Dichloroethylene	ND	0.40	ug/L		BLOD				30	
trans-1,3-Dichloropropene	ND	0.40	ug/L		BLOD				30	
Trichloroethylene	ND	0.40	ug/L		BLOD				30	
Trichlorofluoromethane	ND	0.40	ug/L		BLOD				30	
Vinyl acetate	ND	1.00	ug/L		BLOD				30	
Vinyl chloride	ND	0.40	ug/L		BLOD				30	
Xylenes, Total	ND	3.00	ug/L		BLOD				30	
Tetrahydrofuran	ND	1.00	ug/L		BLOD				30	
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>50.4</i>		ug/L	<i>50.0</i>		<i>101</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>47.8</i>		ug/L	<i>50.0</i>		<i>95.7</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>48.6</i>		ug/L	<i>50.0</i>		<i>97.2</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>49.9</i>		ug/L	<i>50.0</i>		<i>99.8</i>	<i>70-130</i>			
Duplicate (BJG0926-DUP3) Source: 26G1813-02 Prepared & Analyzed: 07/17/2026										
1,1,1,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	
1,1,1-Trichloroethane	ND	0.40	ug/L		BLOD				30	
1,1,2,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ0926 - SW5030B-MS										
Duplicate (BJG0926-DUP3)		Source: 26G1813-02			Prepared & Analyzed: 07/17/2026					
1,1,2-Trichloroethane	ND	0.40	ug/L		BLOD				30	
1,1-Dichloroethane	ND	0.40	ug/L		BLOD				30	
1,1-Dichloroethylene	ND	0.40	ug/L		BLOD				30	
1,1-Dichloropropene	ND	1.00	ug/L		BLOD				30	
1,2,3-Trichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,2,3-Trichloropropane	ND	1.00	ug/L		BLOD				30	
1,2,4-Trichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,2,4-Trimethylbenzene	ND	1.00	ug/L		BLOD				30	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.40	ug/L		BLOD				30	
1,2-Dibromoethane (EDB)	ND	0.40	ug/L		BLOD				30	
1,2-Dichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,2-Dichloroethane	ND	0.40	ug/L		BLOD				30	
1,2-Dichloropropane	ND	0.40	ug/L		BLOD				30	
1,3,5-Trimethylbenzene	ND	1.00	ug/L		BLOD				30	
1,3-Dichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,3-Dichloropropane	ND	1.00	ug/L		BLOD				30	
1,4-Dichlorobenzene	ND	0.40	ug/L		BLOD				30	
2,2-Dichloropropane	ND	1.00	ug/L		BLOD				30	
2-Butanone (MEK)	ND	1.00	ug/L		BLOD				30	
2-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
2-Hexanone (MBK)	ND	1.00	ug/L		BLOD				30	
4-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
4-Isopropyltoluene	ND	1.00	ug/L		BLOD				30	
4-Methyl-2-pentanone (MIBK)	ND	1.00	ug/L		BLOD				30	
Acetone	ND	4.00	ug/L		BLOD				30	

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ0926 - SW5030B-MS										
Duplicate (BJG0926-DUP3)		Source: 26G1813-02		Prepared & Analyzed: 07/17/2026						
Benzene	ND	0.40	ug/L		BLOD				30	
Bromobenzene	ND	1.00	ug/L		BLOD				30	
Bromochloromethane	ND	0.40	ug/L		BLOD				30	
Bromodichloromethane	ND	0.40	ug/L		BLOD				30	
Bromoform	ND	0.40	ug/L		BLOD				30	
Bromomethane	0.50	0.40	ug/L		0.44			12.8	30	
Carbon disulfide	ND	0.40	ug/L		BLOD				30	
Carbon tetrachloride	ND	0.40	ug/L		BLOD				30	
Chlorobenzene	ND	0.40	ug/L		BLOD				30	
Chloroethane	ND	0.40	ug/L		BLOD				30	
Chloroform	0.23	0.40	ug/L		0.20			14.0	30	
Chloromethane	ND	0.40	ug/L		BLOD				30	
cis-1,2-Dichloroethylene	ND	0.40	ug/L		BLOD				30	
cis-1,3-Dichloropropene	ND	0.40	ug/L		BLOD				30	
Dibromochloromethane	ND	0.40	ug/L		BLOD				30	
Dibromomethane	ND	1.00	ug/L		BLOD				30	
Dichlorodifluoromethane	ND	0.40	ug/L		BLOD				30	
Di-isopropyl ether (DIPE)	ND	1.00	ug/L		BLOD				30	
Ethylbenzene	ND	0.40	ug/L		BLOD				30	
Hexachlorobutadiene	ND	0.40	ug/L		BLOD				30	
Iodomethane	ND	1.00	ug/L		BLOD				30	
Isopropylbenzene	ND	0.40	ug/L		BLOD				30	
m+p-Xylenes	ND	0.80	ug/L		BLOD				30	
Methylene chloride	ND	4.00	ug/L		BLOD				30	
Methyl-t-butyl ether (MTBE)	ND	0.40	ug/L		BLOD				30	

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ0926 - SW5030B-MS										
Duplicate (BJG0926-DUP3) Source: 26G1813-02 Prepared & Analyzed: 07/17/2026										
Naphthalene	ND	1.00	ug/L		BLOD				30	
n-Butylbenzene	0.52	1.00	ug/L		BLOD				30	
n-Propylbenzene	ND	1.00	ug/L		BLOD				30	
o-Xylene	ND	0.40	ug/L		BLOD				30	
sec-Butylbenzene	0.49	1.00	ug/L		0.50			2.02	30	
Styrene	ND	0.40	ug/L		BLOD				30	
tert-Butylbenzene	ND	1.00	ug/L		BLOD				30	
Tetrachloroethylene (PCE)	ND	0.40	ug/L		BLOD				30	
Toluene	ND	0.40	ug/L		BLOD				30	
trans-1,2-Dichloroethylene	ND	0.40	ug/L		BLOD				30	
trans-1,3-Dichloropropene	ND	0.40	ug/L		BLOD				30	
Trichloroethylene	ND	0.40	ug/L		BLOD				30	
Trichlorofluoromethane	ND	0.40	ug/L		BLOD				30	
Vinyl acetate	ND	1.00	ug/L		BLOD				30	
Vinyl chloride	ND	0.40	ug/L		BLOD				30	
Xylenes, Total	ND	3.00	ug/L		BLOD				30	
Tetrahydrofuran	ND	1.00	ug/L		BLOD				30	
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>50.5</i>		ug/L	<i>50.0</i>		<i>101</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>48.3</i>		ug/L	<i>50.0</i>		<i>96.5</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>49.1</i>		ug/L	<i>50.0</i>		<i>98.1</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>49.6</i>		ug/L	<i>50.0</i>		<i>99.3</i>	<i>70-130</i>			
Duplicate (BJG0926-DUP4) Source: 26G1813-03 Prepared & Analyzed: 07/17/2026										
1,1,1,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	
1,1,1-Trichloroethane	ND	0.40	ug/L		BLOD				30	

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ0926 - SW5030B-MS

Duplicate (BJG0926-DUP4)				Source: 26G1813-03		Prepared & Analyzed: 07/17/2026				
1,1,2,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	
1,1,2-Trichloroethane	ND	0.40	ug/L		BLOD				30	
1,1-Dichloroethane	ND	0.40	ug/L		BLOD				30	
1,1-Dichloroethylene	ND	0.40	ug/L		BLOD				30	
1,1-Dichloropropene	ND	1.00	ug/L		BLOD				30	
1,2,3-Trichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,2,3-Trichloropropane	ND	1.00	ug/L		BLOD				30	
1,2,4-Trichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,2,4-Trimethylbenzene	ND	1.00	ug/L		BLOD				30	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.40	ug/L		BLOD				30	
1,2-Dibromoethane (EDB)	ND	0.40	ug/L		BLOD				30	
1,2-Dichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,2-Dichloroethane	ND	0.40	ug/L		BLOD				30	
1,2-Dichloropropane	ND	0.40	ug/L		BLOD				30	
1,3,5-Trimethylbenzene	0.47	1.00	ug/L		BLOD				30	
1,3-Dichlorobenzene	ND	0.40	ug/L		BLOD				30	
1,3-Dichloropropane	ND	1.00	ug/L		BLOD				30	
1,4-Dichlorobenzene	ND	0.40	ug/L		BLOD				30	
2,2-Dichloropropane	ND	1.00	ug/L		BLOD				30	
2-Butanone (MEK)	ND	1.00	ug/L		BLOD				30	
2-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
2-Hexanone (MBK)	ND	1.00	ug/L		BLOD				30	
4-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
4-Isopropyltoluene	ND	1.00	ug/L		0.47				30	
4-Methyl-2-pentanone (MIBK)	ND	1.00	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ0926 - SW5030B-MS

Duplicate (BJG0926-DUP4)

Source: 26G1813-03

Prepared & Analyzed: 07/17/2026

Acetone	ND	4.00	ug/L		BLOD				30	
Benzene	ND	0.40	ug/L		BLOD				30	
Bromobenzene	ND	1.00	ug/L		BLOD				30	
Bromochloromethane	ND	0.40	ug/L		BLOD				30	
Bromodichloromethane	ND	0.40	ug/L		BLOD				30	
Bromoform	ND	0.40	ug/L		BLOD				30	
Bromomethane	ND	0.40	ug/L		0.36				30	
Carbon disulfide	ND	0.40	ug/L		BLOD				30	
Carbon tetrachloride	ND	0.40	ug/L		BLOD				30	
Chlorobenzene	ND	0.40	ug/L		BLOD				30	
Chloroethane	ND	0.40	ug/L		BLOD				30	
Chloroform	0.22	0.40	ug/L		0.22			0.00	30	
Chloromethane	ND	0.40	ug/L		BLOD				30	
cis-1,2-Dichloroethylene	ND	0.40	ug/L		BLOD				30	
cis-1,3-Dichloropropene	ND	0.40	ug/L		BLOD				30	
Dibromochloromethane	ND	0.40	ug/L		BLOD				30	
Dibromomethane	ND	1.00	ug/L		BLOD				30	
Dichlorodifluoromethane	ND	0.40	ug/L		BLOD				30	
Di-isopropyl ether (DIPE)	ND	1.00	ug/L		BLOD				30	
Ethylbenzene	ND	0.40	ug/L		BLOD				30	
Hexachlorobutadiene	ND	0.40	ug/L		BLOD				30	
Iodomethane	ND	1.00	ug/L		BLOD				30	
Isopropylbenzene	ND	0.40	ug/L		BLOD				30	
m+p-Xylenes	ND	0.80	ug/L		BLOD				30	
Methylene chloride	ND	4.00	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ0926 - SW5030B-MS

Duplicate (BJG0926-DUP4)		Source: 26G1813-03		Prepared & Analyzed: 07/17/2026						
Methyl-t-butyl ether (MTBE)	ND	0.40	ug/L		BLOD				30	
Naphthalene	ND	1.00	ug/L		BLOD				30	
n-Butylbenzene	0.50	1.00	ug/L		0.51			1.98	30	
n-Propylbenzene	ND	1.00	ug/L		BLOD				30	
o-Xylene	ND	0.40	ug/L		BLOD				30	
sec-Butylbenzene	ND	1.00	ug/L		0.50				30	
Styrene	ND	0.40	ug/L		BLOD				30	
tert-Butylbenzene	ND	1.00	ug/L		BLOD				30	
Tetrachloroethylene (PCE)	ND	0.40	ug/L		BLOD				30	
Toluene	ND	0.40	ug/L		BLOD				30	
trans-1,2-Dichloroethylene	ND	0.40	ug/L		BLOD				30	
trans-1,3-Dichloropropene	ND	0.40	ug/L		BLOD				30	
Trichloroethylene	ND	0.40	ug/L		BLOD				30	
Trichlorofluoromethane	ND	0.40	ug/L		BLOD				30	
Vinyl acetate	ND	1.00	ug/L		BLOD				30	
Vinyl chloride	ND	0.40	ug/L		BLOD				30	
Xylenes, Total	ND	3.00	ug/L		BLOD				30	
Tetrahydrofuran	ND	1.00	ug/L		BLOD				30	
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>48.5</i>		ug/L	<i>50.0</i>		<i>97.0</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>48.7</i>		ug/L	<i>50.0</i>		<i>97.4</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>47.6</i>		ug/L	<i>50.0</i>		<i>95.3</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>49.9</i>		ug/L	<i>50.0</i>		<i>99.8</i>	<i>70-130</i>			

Matrix Spike (BJG0926-MS1)		Source: 26G1663-05RE1		Prepared & Analyzed: 07/17/2026						
1,1,1,2-Tetrachloroethane	56.4		ug/L	50.0	BLOD	113	80-130			

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ0926 - SW5030B-MS

Matrix Spike (BJG0926-MS1)

Source: 26G1663-05RE1

Prepared & Analyzed: 07/17/2026

1,1,1-Trichloroethane	74.1		ug/L	50.0	BLOD	148	65-130
1,1,2,2-Tetrachloroethane	47.4		ug/L	50.0	BLOD	94.7	65-130
1,1,2-Trichloroethane	53.9		ug/L	50.0	BLOD	108	75-125
1,1-Dichloroethane	70.1		ug/L	50.0	BLOD	140	70-135
1,1-Dichloroethylene	64.6		ug/L	50.0	BLOD	129	50-145
1,1-Dichloropropene	64.8		ug/L	50.0	BLOD	130	75-135
1,2,3-Trichlorobenzene	61.0		ug/L	50.0	BLOD	122	55-140
1,2,3-Trichloropropane	55.3		ug/L	50.0	BLOD	111	75-125
1,2,4-Trichlorobenzene	59.4		ug/L	50.0	BLOD	119	65-135
1,2,4-Trimethylbenzene	51.2		ug/L	50.0	BLOD	102	75-130
1,2-Dibromo-3-chloropropane (DBCP)	55.6		ug/L	50.0	BLOD	111	50-130
1,2-Dibromoethane (EDB)	55.2		ug/L	50.0	BLOD	110	80-120
1,2-Dichlorobenzene	55.5		ug/L	50.0	BLOD	111	70-120
1,2-Dichloroethane	55.5		ug/L	50.0	BLOD	111	70-130
1,2-Dichloropropane	55.1		ug/L	50.0	BLOD	110	75-125
1,3,5-Trimethylbenzene	49.8		ug/L	50.0	BLOD	99.6	75-124
1,3-Dichlorobenzene	57.8		ug/L	50.0	BLOD	116	75-125
1,3-Dichloropropane	51.6		ug/L	50.0	BLOD	103	75-125
1,4-Dichlorobenzene	56.2		ug/L	50.0	BLOD	112	75-125
2,2-Dichloropropane	77.8		ug/L	50.0	BLOD	156	70-135
2-Butanone (MEK)	67.6		ug/L	50.0	5.32	125	30-150
2-Chlorotoluene	58.8		ug/L	50.0	BLOD	118	75-125
2-Hexanone (MBK)	47.6		ug/L	50.0	BLOD	95.2	55-130
4-Chlorotoluene	57.4		ug/L	50.0	BLOD	115	75-130
4-Isopropyltoluene	51.2		ug/L	50.0	BLOD	102	75-130

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0926 - SW5030B-MS

Matrix Spike (BJG0926-MS1)

Source: 26G1663-05RE1

Prepared & Analyzed: 07/17/2026

4-Methyl-2-pentanone (MIBK)	54.7		ug/L	50.0	BLOD	109	60-135
Acetone	167		ug/L	50.0	96.7	140	40-140
Benzene	50.6		ug/L	50.0	BLOD	101	80-120
Bromobenzene	54.6		ug/L	50.0	BLOD	109	75-125
Bromochloromethane	57.8		ug/L	50.0	BLOD	116	65-130
Bromodichloromethane	54.0		ug/L	50.0	BLOD	108	75-136
Bromoform	51.6		ug/L	50.0	BLOD	103	70-130
Bromomethane	88.7		ug/L	50.0	0.99	176	30-145
Carbon disulfide	98.6		ug/L	50.0	17.9	162	35-160
Carbon tetrachloride	51.2		ug/L	50.0	BLOD	102	65-140
Chlorobenzene	55.9		ug/L	50.0	BLOD	112	80-120
Chloroethane	72.9		ug/L	50.0	BLOD	146	60-135
Chloroform	71.0		ug/L	50.0	8.51	125	65-135
Chloromethane	70.4		ug/L	50.0	0.63	140	40-125
cis-1,2-Dichloroethylene	67.2		ug/L	50.0	BLOD	134	70-125
cis-1,3-Dichloropropene	56.8		ug/L	50.0	BLOD	114	47-136
Dibromochloromethane	55.0		ug/L	50.0	BLOD	110	60-135
Dibromomethane	53.8		ug/L	50.0	BLOD	108	75-125
Dichlorodifluoromethane	86.6		ug/L	50.0	BLOD	173	30-155
Ethylbenzene	60.9		ug/L	50.0	BLOD	122	75-125
Hexachlorobutadiene	66.8		ug/L	50.0	BLOD	134	50-140
Isopropylbenzene	62.1		ug/L	50.0	BLOD	124	75-125
m+p-Xylenes	121		ug/L	100	BLOD	121	75-130
Methylene chloride	69.0		ug/L	50.0	9.62	119	55-140
Methyl-t-butyl ether (MTBE)	59.8		ug/L	50.0	BLOD	120	65-125

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0926 - SW5030B-MS

Matrix Spike (BJG0926-MS1)

Source: 26G1663-05RE1

Prepared & Analyzed: 07/17/2026

Naphthalene	62.9		ug/L	50.0	BLOD	126	55-140			
n-Butylbenzene	51.1		ug/L	50.0	0.51	101	70-135			
n-Propylbenzene	62.0		ug/L	50.0	BLOD	124	70-130			
o-Xylene	57.7		ug/L	50.0	BLOD	115	80-120			
sec-Butylbenzene	52.0		ug/L	50.0	0.50	103	70-125			
Styrene	58.3		ug/L	50.0	BLOD	117	65-135			
tert-Butylbenzene	63.0		ug/L	50.0	BLOD	126	70-130			
Tetrachloroethylene (PCE)	45.4		ug/L	50.0	BLOD	90.8	51-231			
Toluene	57.6		ug/L	50.0	BLOD	115	75-120			
trans-1,2-Dichloroethylene	72.3		ug/L	50.0	BLOD	145	60-140			
trans-1,3-Dichloropropene	54.7		ug/L	50.0	BLOD	109	55-140			
Trichloroethylene	50.4		ug/L	50.0	BLOD	101	70-125			
Trichlorofluoromethane	64.8		ug/L	50.0	BLOD	130	60-145			
Vinyl chloride	76.3		ug/L	50.0	BLOD	153	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	52.7		ug/L	50.0		105	70-120			
Surr: 4-Bromofluorobenzene (Surr)	51.2		ug/L	50.0		102	75-120			
Surr: Dibromofluoromethane (Surr)	54.2		ug/L	50.0		108	70-130			
Surr: Toluene-d8 (Surr)	49.3		ug/L	50.0		98.7	70-130			

Batch BJG1210 - SW5030B-MS

Blank (BJG1210-BLK1)

Prepared & Analyzed: 07/23/2026

2-Butanone (MEK)	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Ethylbenzene	ND	1.00	ug/L							

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ1210 - SW5030B-MS

Blank (BJG1210-BLK1)

Prepared & Analyzed: 07/23/2026

Toluene	ND	1.00	ug/L							
Xylenes, Total	ND	3.00	ug/L							
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	52.3		ug/L	50.0		105	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	50.1		ug/L	50.0		100	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	53.7		ug/L	50.0		107	70-130			
<i>Surr: Toluene-d8 (Surr)</i>	50.5		ug/L	50.0		101	70-130			

Blank (BJG1210-BLK2)

Prepared & Analyzed: 07/23/2026

Benzene	ND	1.00	ug/L							
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	51.4		ug/L	50.0		103	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	50.3		ug/L	50.0		101	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	53.1		ug/L	50.0		106	70-130			
<i>Surr: Toluene-d8 (Surr)</i>	50.8		ug/L	50.0		102	70-130			

LCS (BJG1210-BS1)

Prepared & Analyzed: 07/23/2026

1,1,1,2-Tetrachloroethane	56.5		ug/L	50.0		113	80-130			
1,1,1-Trichloroethane	60.2		ug/L	50.0		120	65-130			
1,1,2,2-Tetrachloroethane	55.1		ug/L	50.0		110	65-130			
1,1,2-Trichloroethane	60.1		ug/L	50.0		120	75-125			
1,1-Dichloroethane	56.9		ug/L	50.0		114	70-135			
1,1-Dichloroethylene	71.2		ug/L	50.0		142	70-130			L
1,1-Dichloropropene	55.3		ug/L	50.0		111	75-135			
1,2,3-Trichlorobenzene	58.3		ug/L	50.0		117	55-140			
1,2,3-Trichloropropane	52.7		ug/L	50.0		105	75-125			
1,2,4-Trichlorobenzene	59.3		ug/L	50.0		119	65-135			

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1210 - SW5030B-MS										
LCS (BJG1210-BS1)				Prepared & Analyzed: 07/23/2026						
1,2,4-Trimethylbenzene	53.6		ug/L	50.0		107	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	54.4		ug/L	50.0		109	50-130			
1,2-Dibromoethane (EDB)	54.8		ug/L	50.0		110	80-120			
1,2-Dichlorobenzene	54.6		ug/L	50.0		109	70-120			
1,2-Dichloroethane	57.8		ug/L	50.0		116	70-130			
1,2-Dichloropropane	55.2		ug/L	50.0		110	75-125			
1,3,5-Trimethylbenzene	52.7		ug/L	50.0		105	75-125			
1,3-Dichlorobenzene	53.8		ug/L	50.0		108	75-125			
1,3-Dichloropropane	59.6		ug/L	50.0		119	75-125			
1,4-Dichlorobenzene	53.4		ug/L	50.0		107	75-125			
2,2-Dichloropropane	61.6		ug/L	50.0		123	70-135			
2-Butanone (MEK)	56.5		ug/L	50.0		113	30-150			
2-Chlorotoluene	51.6		ug/L	50.0		103	75-125			
2-Hexanone (MBK)	50.5		ug/L	50.0		101	55-130			
4-Chlorotoluene	52.3		ug/L	50.0		105	75-130			
4-Isopropyltoluene	53.3		ug/L	50.0		107	75-130			
4-Methyl-2-pentanone (MIBK)	57.7		ug/L	50.0		115	60-135			
Acetone	52.5		ug/L	50.0		105	40-140			
Benzene	54.3		ug/L	50.0		109	80-120			
Bromobenzene	53.2		ug/L	50.0		106	75-125			
Bromochloromethane	57.6		ug/L	50.0		115	65-130			
Bromodichloromethane	60.8		ug/L	50.0		122	75-120			L
Bromoform	47.4		ug/L	50.0		94.8	70-130			
Bromomethane	71.3		ug/L	50.0		143	30-145			
Carbon disulfide	42.1		ug/L	50.0		84.1	35-160			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1210 - SW5030B-MS										
LCS (BJG1210-BS1)				Prepared & Analyzed: 07/23/2026						
Carbon tetrachloride	60.7		ug/L	50.0		121	65-140			
Chlorobenzene	51.4		ug/L	50.0		103	80-120			
Chloroethane	70.6		ug/L	50.0		141	60-135			L
Chloroform	55.7		ug/L	50.0		111	65-135			
Chloromethane	44.9		ug/L	50.0		89.9	40-125			
cis-1,2-Dichloroethylene	56.1		ug/L	50.0		112	70-125			
cis-1,3-Dichloropropene	61.7		ug/L	50.0		123	70-130			
Dibromochloromethane	69.0		ug/L	50.0		138	60-135			L
Dibromomethane	58.7		ug/L	50.0		117	75-125			
Dichlorodifluoromethane	55.6		ug/L	50.0		111	30-155			
Ethylbenzene	51.6		ug/L	50.0		103	75-125			
Hexachlorobutadiene	58.0		ug/L	50.0		116	50-140			
Isopropylbenzene	50.8		ug/L	50.0		102	75-125			
m+p-Xylenes	102		ug/L	100		102	75-130			
Methylene chloride	75.1		ug/L	50.0		150	55-140			L
Methyl-t-butyl ether (MTBE)	58.7		ug/L	50.0		117	65-125			
Naphthalene	56.5		ug/L	50.0		113	55-140			
n-Butylbenzene	54.6		ug/L	50.0		109	70-135			
n-Propylbenzene	51.6		ug/L	50.0		103	70-130			
o-Xylene	51.9		ug/L	50.0		104	80-120			
sec-Butylbenzene	52.4		ug/L	50.0		105	70-125			
Styrene	53.1		ug/L	50.0		106	65-135			
tert-Butylbenzene	51.9		ug/L	50.0		104	70-130			
Tetrachloroethylene (PCE)	47.4		ug/L	50.0		94.9	45-150			
Toluene	55.4		ug/L	50.0		111	75-120			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ1210 - SW5030B-MS

LCS (BJG1210-BS1)

Prepared & Analyzed: 07/23/2026

trans-1,2-Dichloroethylene	54.8		ug/L	50.0		110	60-140			
trans-1,3-Dichloropropene	64.4		ug/L	50.0		129	55-140			
Trichloroethylene	56.4		ug/L	50.0		113	70-125			
Trichlorofluoromethane	70.3		ug/L	50.0		141	60-145			
Vinyl chloride	55.4		ug/L	50.0		111	50-145			
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>50.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>50.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>52.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>105</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>52.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>70-130</i>			

Duplicate (BJG1210-DUP1)

Source: 26G1507-06RE1

Prepared & Analyzed: 07/23/2026

1,1,1,2-Tetrachloroethane	ND	200	ug/L		BLOD				30	
1,1,1-Trichloroethane	ND	200	ug/L		BLOD				30	
1,1,2,2-Tetrachloroethane	ND	200	ug/L		BLOD				30	
1,1,2-Trichloroethane	ND	200	ug/L		BLOD				30	
1,1-Dichloroethane	ND	200	ug/L		BLOD				30	
1,1-Dichloroethylene	ND	200	ug/L		BLOD				30	
1,1-Dichloropropene	ND	500	ug/L		BLOD				30	
1,2,3-Trichlorobenzene	ND	200	ug/L		BLOD				30	
1,2,3-Trichloropropane	ND	500	ug/L		BLOD				30	
1,2,4-Trichlorobenzene	ND	200	ug/L		BLOD				30	
1,2,4-Trimethylbenzene	ND	500	ug/L		BLOD				30	
1,2-Dibromo-3-chloropropane (DBCP)	ND	200	ug/L		BLOD				30	
1,2-Dibromoethane (EDB)	ND	200	ug/L		BLOD				30	
1,2-Dichlorobenzene	ND	200	ug/L		BLOD				30	

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ1210 - SW5030B-MS										
Duplicate (BJG1210-DUP1) Source: 26G1507-06RE1 Prepared & Analyzed: 07/23/2026										
1,2-Dichloroethane	ND	200	ug/L		BLOD				30	
1,2-Dichloropropane	ND	200	ug/L		BLOD				30	
1,3,5-Trimethylbenzene	ND	500	ug/L		BLOD				30	
1,3-Dichlorobenzene	ND	200	ug/L		BLOD				30	
1,3-Dichloropropane	ND	500	ug/L		BLOD				30	
1,4-Dichlorobenzene	ND	200	ug/L		BLOD				30	
2,2-Dichloropropane	ND	500	ug/L		BLOD				30	
2-Butanone (MEK)	20000	500	ug/L		19500			2.43	30	
2-Chlorotoluene	ND	500	ug/L		BLOD				30	
2-Hexanone (MBK)	ND	500	ug/L		BLOD				30	
4-Chlorotoluene	ND	500	ug/L		BLOD				30	
4-Isopropyltoluene	ND	500	ug/L		BLOD				30	
4-Methyl-2-pentanone (MIBK)	480	500	ug/L		515			7.04	30	
Acetone	95300	2000	ug/L		71000			29.3	30	
Benzene	730	200	ug/L		770			5.33	30	
Bromobenzene	ND	500	ug/L		BLOD				30	
Bromochloromethane	ND	200	ug/L		BLOD				30	
Bromodichloromethane	ND	200	ug/L		BLOD				30	
Bromoform	ND	200	ug/L		BLOD				30	
Bromomethane	ND	200	ug/L		BLOD				30	
Carbon disulfide	ND	200	ug/L		BLOD				30	
Carbon tetrachloride	ND	200	ug/L		BLOD				30	
Chlorobenzene	ND	200	ug/L		BLOD				30	
Chloroethane	ND	200	ug/L		BLOD				30	
Chloroform	ND	200	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1210 - SW5030B-MS										
Duplicate (BJG1210-DUP1)		Source: 26G1507-06RE1			Prepared & Analyzed: 07/23/2026					
Chloromethane	ND	200	ug/L		BLOD				30	
cis-1,2-Dichloroethylene	ND	200	ug/L		BLOD				30	
cis-1,3-Dichloropropene	ND	200	ug/L		BLOD				30	
Dibromochloromethane	ND	200	ug/L		BLOD				30	
Dibromomethane	ND	500	ug/L		BLOD				30	
Dichlorodifluoromethane	ND	200	ug/L		BLOD				30	
Di-isopropyl ether (DIPE)	ND	500	ug/L		BLOD				30	
Ethylbenzene	ND	200	ug/L		BLOD				30	
Hexachlorobutadiene	ND	200	ug/L		BLOD				30	
Iodomethane	ND	500	ug/L		BLOD				30	
Isopropylbenzene	ND	200	ug/L		BLOD				30	
m+p-Xylenes	ND	400	ug/L		BLOD				30	
Methylene chloride	ND	2000	ug/L		BLOD				30	
Methyl-t-butyl ether (MTBE)	ND	200	ug/L		BLOD				30	
Naphthalene	ND	500	ug/L		BLOD				30	
n-Butylbenzene	ND	500	ug/L		BLOD				30	
n-Propylbenzene	ND	500	ug/L		BLOD				30	
o-Xylene	ND	200	ug/L		BLOD				30	
sec-Butylbenzene	ND	500	ug/L		BLOD				30	
Styrene	ND	200	ug/L		BLOD				30	
tert-Butylbenzene	ND	500	ug/L		BLOD				30	
Tetrachloroethylene (PCE)	ND	200	ug/L		BLOD				30	
Toluene	95.0	200	ug/L		85.0			11.1	30	
trans-1,2-Dichloroethylene	ND	200	ug/L		BLOD				30	
trans-1,3-Dichloropropene	ND	200	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ1210 - SW5030B-MS										
Duplicate (BJG1210-DUP1) Source: 26G1507-06RE1 Prepared & Analyzed: 07/23/2026										
Trichloroethylene	ND	200	ug/L		BLOD				30	
Trichlorofluoromethane	ND	200	ug/L		BLOD				30	
Vinyl acetate	ND	500	ug/L		BLOD				30	
Vinyl chloride	ND	200	ug/L		BLOD				30	
Xylenes, Total	ND	1500	ug/L		BLOD				30	
Tetrahydrofuran	5650	500	ug/L		6100			7.74	30	
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	53.8		ug/L	50.0		108	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	50.5		ug/L	50.0		101	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	56.2		ug/L	50.0		112	70-130			
<i>Surr: Toluene-d8 (Surr)</i>	51.3		ug/L	50.0		103	70-130			
Matrix Spike (BJG1210-MS1) Source: 26G1507-02RE1 Prepared & Analyzed: 07/23/2026										
1,1,1,2-Tetrachloroethane	56.6		ug/L	50.0	BLOD	113	80-130			
1,1,1-Trichloroethane	62.9		ug/L	50.0	BLOD	126	65-130			
1,1,2,2-Tetrachloroethane	52.2		ug/L	50.0	BLOD	104	65-130			
1,1,2-Trichloroethane	57.5		ug/L	50.0	BLOD	115	75-125			
1,1-Dichloroethane	58.3		ug/L	50.0	BLOD	117	70-135			
1,1-Dichloroethylene	74.7		ug/L	50.0	BLOD	149	50-145			M
1,1-Dichloropropene	59.8		ug/L	50.0	BLOD	120	75-135			
1,2,3-Trichlorobenzene	59.7		ug/L	50.0	BLOD	119	55-140			
1,2,3-Trichloropropane	50.2		ug/L	50.0	BLOD	100	75-125			
1,2,4-Trichlorobenzene	59.8		ug/L	50.0	BLOD	120	65-135			
1,2,4-Trimethylbenzene	54.8		ug/L	50.0	BLOD	110	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	51.5		ug/L	50.0	BLOD	103	50-130			
1,2-Dibromoethane (EDB)	53.8		ug/L	50.0	BLOD	108	80-120			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1210 - SW5030B-MS										
Matrix Spike (BJG1210-MS1)		Source: 26G1507-02RE1			Prepared & Analyzed: 07/23/2026					
1,2-Dichlorobenzene	53.7		ug/L	50.0	BLOD	107	70-120			
1,2-Dichloroethane	56.9		ug/L	50.0	BLOD	114	70-130			
1,2-Dichloropropane	55.0		ug/L	50.0	BLOD	110	75-125			
1,3,5-Trimethylbenzene	54.4		ug/L	50.0	BLOD	109	75-124			
1,3-Dichlorobenzene	54.2		ug/L	50.0	BLOD	108	75-125			
1,3-Dichloropropane	57.2		ug/L	50.0	BLOD	114	75-125			
1,4-Dichlorobenzene	52.9		ug/L	50.0	BLOD	106	75-125			
2,2-Dichloropropane	63.8		ug/L	50.0	BLOD	128	70-135			
2-Butanone (MEK)	68.4		ug/L	50.0	7320	-14500	30-150			M
2-Chlorotoluene	52.4		ug/L	50.0	BLOD	105	75-125			
2-Hexanone (MBK)	50.7		ug/L	50.0	BLOD	101	55-130			
4-Chlorotoluene	52.7		ug/L	50.0	BLOD	105	75-130			
4-Isopropyltoluene	54.6		ug/L	50.0	BLOD	109	75-130			
4-Methyl-2-pentanone (MIBK)	54.9		ug/L	50.0	BLOD	110	60-135			
Acetone	116		ug/L	50.0	38200	-76200	40-140			M
Benzene	56.4		ug/L	50.0	55.0	2.70	80-120			M
Bromobenzene	53.1		ug/L	50.0	BLOD	106	75-125			
Bromochloromethane	57.9		ug/L	50.0	BLOD	116	65-130			
Bromodichloromethane	60.6		ug/L	50.0	BLOD	121	75-136			
Bromoform	45.5		ug/L	50.0	BLOD	91.0	70-130			
Bromomethane	74.0		ug/L	50.0	BLOD	148	30-145			M
Carbon disulfide	50.1		ug/L	50.0	BLOD	100	35-160			
Carbon tetrachloride	63.0		ug/L	50.0	BLOD	126	65-140			
Chlorobenzene	52.3		ug/L	50.0	BLOD	105	80-120			
Chloroethane	77.4		ug/L	50.0	BLOD	155	60-135			M

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1210 - SW5030B-MS										
Matrix Spike (BJG1210-MS1)		Source: 26G1507-02RE1			Prepared & Analyzed: 07/23/2026					
Chloroform	57.6		ug/L	50.0	95.0	-74.7	65-135			M
Chloromethane	48.8		ug/L	50.0	55.0	-12.5	40-125			M
cis-1,2-Dichloroethylene	59.0		ug/L	50.0	BLOD	118	70-125			
cis-1,3-Dichloropropene	60.3		ug/L	50.0	BLOD	121	47-136			
Dibromochloromethane	63.0		ug/L	50.0	BLOD	126	60-135			
Dibromomethane	56.7		ug/L	50.0	BLOD	113	75-125			
Dichlorodifluoromethane	53.6		ug/L	50.0	BLOD	107	30-155			
Ethylbenzene	53.5		ug/L	50.0	BLOD	107	75-125			
Hexachlorobutadiene	58.5		ug/L	50.0	BLOD	117	50-140			
Isopropylbenzene	52.4		ug/L	50.0	BLOD	105	75-125			
m+p-Xylenes	107		ug/L	100	BLOD	107	75-130			
Methylene chloride	74.8		ug/L	50.0	1880	-3600	55-140			M
Methyl-t-butyl ether (MTBE)	61.3		ug/L	50.0	BLOD	123	65-125			
Naphthalene	55.8		ug/L	50.0	BLOD	112	55-140			
n-Butylbenzene	56.4		ug/L	50.0	BLOD	113	70-135			
n-Propylbenzene	53.1		ug/L	50.0	BLOD	106	70-130			
o-Xylene	52.9		ug/L	50.0	BLOD	106	80-120			
sec-Butylbenzene	53.7		ug/L	50.0	BLOD	107	70-125			
Styrene	54.4		ug/L	50.0	BLOD	109	65-135			
tert-Butylbenzene	52.9		ug/L	50.0	BLOD	106	70-130			
Tetrachloroethylene (PCE)	50.4		ug/L	50.0	BLOD	101	51-231			
Toluene	56.5		ug/L	50.0	BLOD	113	75-120			
trans-1,2-Dichloroethylene	58.1		ug/L	50.0	BLOD	116	60-140			
trans-1,3-Dichloropropene	62.2		ug/L	50.0	BLOD	124	55-140			
Trichloroethylene	58.0		ug/L	50.0	BLOD	116	70-125			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1210 - SW5030B-MS										
Matrix Spike (BJG1210-MS1)			Source: 26G1507-02RE1		Prepared & Analyzed: 07/23/2026					
Trichlorofluoromethane	76.0		ug/L	50.0	BLOD	152	60-145			M
Vinyl chloride	56.8		ug/L	50.0	BLOD	114	50-145			
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>51.1</i>		ug/L	<i>50.0</i>		<i>102</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>50.5</i>		ug/L	<i>50.0</i>		<i>101</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>52.6</i>		ug/L	<i>50.0</i>		<i>105</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>51.0</i>		ug/L	<i>50.0</i>		<i>102</i>	<i>70-130</i>			
Batch BJG1285 - SW5030B-MS										
Blank (BJG1285-BLK2)			Prepared & Analyzed: 07/24/2026							
2-Butanone (MEK)	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Benzene	ND	1.00	ug/L							
Ethylbenzene	ND	1.00	ug/L							
Toluene	ND	1.00	ug/L							
Xylenes, Total	ND	3.00	ug/L							
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>49.4</i>		ug/L	<i>50.0</i>		<i>98.8</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>48.9</i>		ug/L	<i>50.0</i>		<i>97.9</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>49.2</i>		ug/L	<i>50.0</i>		<i>98.4</i>	<i>70-130</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>51.2</i>		ug/L	<i>50.0</i>		<i>102</i>	<i>70-130</i>			
LCS (BJG1285-BS1)			Prepared & Analyzed: 07/24/2026							
1,1,1,2-Tetrachloroethane	51.0		ug/L	50.0		102	80-130			
1,1,1-Trichloroethane	49.3		ug/L	50.0		98.5	65-130			
1,1,2,2-Tetrachloroethane	54.1		ug/L	50.0		108	65-130			
1,1,2-Trichloroethane	54.1		ug/L	50.0		108	75-125			

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ1285 - SW5030B-MS

LCS (BJG1285-BS1)

Prepared & Analyzed: 07/24/2026

1,1-Dichloroethane	51.4		ug/L	50.0		103	70-135			
1,1-Dichloroethylene	43.9		ug/L	50.0		87.8	70-130			
1,1-Dichloropropene	49.0		ug/L	50.0		97.9	75-135			
1,2,3-Trichlorobenzene	49.3		ug/L	50.0		98.6	55-140			
1,2,3-Trichloropropane	52.4		ug/L	50.0		105	75-125			
1,2,4-Trichlorobenzene	50.6		ug/L	50.0		101	65-135			
1,2,4-Trimethylbenzene	51.7		ug/L	50.0		103	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	51.6		ug/L	50.0		103	50-130			
1,2-Dibromoethane (EDB)	52.3		ug/L	50.0		105	80-120			
1,2-Dichlorobenzene	51.5		ug/L	50.0		103	70-120			
1,2-Dichloroethane	49.7		ug/L	50.0		99.4	70-130			
1,2-Dichloropropane	52.9		ug/L	50.0		106	75-125			
1,3,5-Trimethylbenzene	50.0		ug/L	50.0		99.9	75-125			
1,3-Dichlorobenzene	49.4		ug/L	50.0		98.9	75-125			
1,3-Dichloropropane	53.6		ug/L	50.0		107	75-125			
1,4-Dichlorobenzene	50.1		ug/L	50.0		100	75-125			
2,2-Dichloropropane	52.3		ug/L	50.0		105	70-135			
2-Butanone (MEK)	51.7		ug/L	50.0		103	30-150			
2-Chlorotoluene	46.4		ug/L	50.0		92.8	75-125			
2-Hexanone (MBK)	49.8		ug/L	50.0		99.6	55-130			
4-Chlorotoluene	48.2		ug/L	50.0		96.3	75-130			
4-Isopropyltoluene	49.8		ug/L	50.0		99.7	75-130			
4-Methyl-2-pentanone (MIBK)	55.0		ug/L	50.0		110	60-135			
Acetone	36.9		ug/L	50.0		73.8	40-140			
Benzene	50.5		ug/L	50.0		101	80-120			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG1285 - SW5030B-MS

LCS (BJG1285-BS1)

Prepared & Analyzed: 07/24/2026

Bromobenzene	50.3		ug/L	50.0		101	75-125			
Bromochloromethane	50.0		ug/L	50.0		100	65-130			
Bromodichloromethane	51.6		ug/L	50.0		103	75-120			
Bromoform	60.3		ug/L	50.0		121	70-130			
Bromomethane	41.2		ug/L	50.0		82.4	30-145			
Carbon disulfide	37.2		ug/L	50.0		74.5	35-160			
Carbon tetrachloride	49.0		ug/L	50.0		98.1	65-140			
Chlorobenzene	47.5		ug/L	50.0		95.0	80-120			
Chloroethane	44.5		ug/L	50.0		88.9	60-135			
Chloroform	47.7		ug/L	50.0		95.3	65-135			
Chloromethane	43.0		ug/L	50.0		86.0	40-125			
cis-1,2-Dichloroethylene	48.6		ug/L	50.0		97.2	70-125			
cis-1,3-Dichloropropene	56.4		ug/L	50.0		113	70-130			
Dibromochloromethane	57.7		ug/L	50.0		115	60-135			
Dibromomethane	53.5		ug/L	50.0		107	75-125			
Dichlorodifluoromethane	43.2		ug/L	50.0		86.5	30-155			
Ethylbenzene	48.2		ug/L	50.0		96.5	75-125			
Hexachlorobutadiene	45.7		ug/L	50.0		91.5	50-140			
Isopropylbenzene	47.9		ug/L	50.0		95.8	75-125			
m+p-Xylenes	98.7		ug/L	100		98.7	75-130			
Methylene chloride	45.6		ug/L	50.0		91.2	55-140			
Methyl-t-butyl ether (MTBE)	55.5		ug/L	50.0		111	65-125			
Naphthalene	52.1		ug/L	50.0		104	55-140			
n-Butylbenzene	53.9		ug/L	50.0		108	70-135			
n-Propylbenzene	48.7		ug/L	50.0		97.5	70-130			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ1285 - SW5030B-MS

LCS (BJG1285-BS1)

Prepared & Analyzed: 07/24/2026

o-Xylene	48.4		ug/L	50.0		96.7	80-120			
sec-Butylbenzene	49.3		ug/L	50.0		98.6	70-125			
Styrene	53.6		ug/L	50.0		107	65-135			
tert-Butylbenzene	48.5		ug/L	50.0		97.0	70-130			
Tetrachloroethylene (PCE)	41.5		ug/L	50.0		83.0	45-150			
Toluene	48.9		ug/L	50.0		97.8	75-120			
trans-1,2-Dichloroethylene	46.1		ug/L	50.0		92.1	60-140			
trans-1,3-Dichloropropene	60.5		ug/L	50.0		121	55-140			
Trichloroethylene	48.9		ug/L	50.0		97.8	70-125			
Trichlorofluoromethane	42.6		ug/L	50.0		85.2	60-145			
Vinyl chloride	48.0		ug/L	50.0		96.0	50-145			
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	48.3		ug/L	50.0		96.7	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	51.4		ug/L	50.0		103	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	48.8		ug/L	50.0		97.6	70-130			
<i>Surr: Toluene-d8 (Surr)</i>	50.1		ug/L	50.0		100	70-130			

Duplicate (BJG1285-DUP1)

Source: 26G2151-02

Prepared & Analyzed: 07/24/2026

1,1,1,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	
1,1,1-Trichloroethane	ND	1.00	ug/L		BLOD				30	
1,1,2,2-Tetrachloroethane	ND	0.40	ug/L		BLOD				30	
1,1,2-Trichloroethane	ND	1.00	ug/L		BLOD				30	
1,1-Dichloroethane	ND	1.00	ug/L		BLOD				30	
1,1-Dichloroethylene	ND	1.00	ug/L		BLOD				30	
1,1-Dichloropropene	ND	1.00	ug/L		BLOD				30	
1,2,3-Trichlorobenzene	ND	1.00	ug/L		BLOD				30	

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1285 - SW5030B-MS										
Duplicate (BJG1285-DUP1)		Source: 26G2151-02		Prepared & Analyzed: 07/24/2026						
1,2,3-Trichloropropane	ND	1.00	ug/L		BLOD				30	
1,2,4-Trichlorobenzene	ND	1.00	ug/L		BLOD				30	
1,2,4-Trimethylbenzene	1.03	1.00	ug/L		24.6			184	30	P
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.00	ug/L		BLOD				30	
1,2-Dibromoethane (EDB)	ND	1.00	ug/L		BLOD				30	
1,2-Dichlorobenzene	ND	0.50	ug/L		BLOD				30	
1,2-Dichloroethane	ND	1.00	ug/L		BLOD				30	
1,2-Dichloropropane	ND	0.50	ug/L		BLOD				30	
1,3,5-Trimethylbenzene	ND	1.00	ug/L		6.20				30	
1,3-Dichlorobenzene	ND	1.00	ug/L		BLOD				30	
1,3-Dichloropropane	ND	1.00	ug/L		BLOD				30	
1,4-Dichlorobenzene	ND	1.00	ug/L		BLOD				30	
2,2-Dichloropropane	ND	1.00	ug/L		BLOD				30	
2-Butanone (MEK)	ND	10.0	ug/L		BLOD				30	
2-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
2-Hexanone (MBK)	ND	5.00	ug/L		BLOD				30	
4-Chlorotoluene	ND	1.00	ug/L		BLOD				30	
4-Isopropyltoluene	ND	1.00	ug/L		BLOD				30	
4-Methyl-2-pentanone (MIBK)	ND	5.00	ug/L		BLOD				30	
Acetone	ND	10.0	ug/L		42.4				30	
Benzene	0.69	1.00	ug/L		15.0			182	30	P
Bromobenzene	ND	1.00	ug/L		BLOD				30	
Bromochloromethane	ND	1.00	ug/L		BLOD				30	
Bromodichloromethane	ND	0.50	ug/L		BLOD				30	
Bromoform	ND	1.00	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1285 - SW5030B-MS										
Duplicate (BJG1285-DUP1)		Source: 26G2151-02		Prepared & Analyzed: 07/24/2026						
Bromomethane	ND	1.00	ug/L		BLOD				30	
Carbon disulfide	ND	10.0	ug/L		3.00				30	
Carbon tetrachloride	ND	1.00	ug/L		BLOD				30	
Chlorobenzene	ND	1.00	ug/L		BLOD				30	
Chloroethane	ND	1.00	ug/L		BLOD				30	
Chloroform	ND	0.50	ug/L		BLOD				30	
Chloromethane	ND	1.00	ug/L		BLOD				30	
cis-1,2-Dichloroethylene	ND	1.00	ug/L		BLOD				30	
cis-1,3-Dichloropropene	ND	1.00	ug/L		BLOD				30	
Dibromochloromethane	ND	0.50	ug/L		BLOD				30	
Dibromomethane	ND	1.00	ug/L		BLOD				30	
Dichlorodifluoromethane	ND	1.00	ug/L		BLOD				30	
Di-isopropyl ether (DIPE)	ND	5.00	ug/L		BLOD				30	
Ethylbenzene	1.19	1.00	ug/L		27.0			183	30	P
Hexachlorobutadiene	ND	0.80	ug/L		BLOD				30	
Iodomethane	ND	10.0	ug/L		26.2				30	
Isopropylbenzene	ND	1.00	ug/L		BLOD				30	
m+p-Xylenes	3.92	2.00	ug/L		86.8			183	30	P
Methylene chloride	ND	4.00	ug/L		41.6				30	
Methyl-t-butyl ether (MTBE)	ND	1.00	ug/L		BLOD				30	
Naphthalene	ND	1.00	ug/L		3.40				30	
n-Butylbenzene	ND	1.00	ug/L		BLOD				30	
n-Propylbenzene	ND	1.00	ug/L		4.40				30	
o-Xylene	1.86	1.00	ug/L		38.8			182	30	P
sec-Butylbenzene	ND	1.00	ug/L		BLOD				30	

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG1285 - SW5030B-MS

Duplicate (BJG1285-DUP1)		Source: 26G2151-02		Prepared & Analyzed: 07/24/2026						
Styrene	ND	1.00	ug/L		BLOD			30		
tert-Butylbenzene	ND	1.00	ug/L		BLOD			30		
Tetrachloroethylene (PCE)	ND	1.00	ug/L		BLOD			30		
Toluene	7.41	1.00	ug/L		159			182	30	P
trans-1,2-Dichloroethylene	ND	1.00	ug/L		BLOD			30		
trans-1,3-Dichloropropene	ND	1.00	ug/L		BLOD			30		
Trichloroethylene	ND	1.00	ug/L		BLOD			30		
Trichlorofluoromethane	ND	1.00	ug/L		BLOD			30		
Vinyl acetate	ND	10.0	ug/L		BLOD			30		
Vinyl chloride	ND	0.50	ug/L		BLOD			30		
Xylenes, Total	5.78	3.00	ug/L		126			182	30	P
Tetrahydrofuran	ND	10.0	ug/L		BLOD			30		
Surr: 1,2-Dichloroethane-d4 (Surr)	51.3		ug/L	50.0		103	70-120			
Surr: 4-Bromofluorobenzene (Surr)	49.5		ug/L	50.0		99.0	75-120			
Surr: Dibromofluoromethane (Surr)	51.9		ug/L	50.0		104	70-130			
Surr: Toluene-d8 (Surr)	52.2		ug/L	50.0		104	70-130			

Matrix Spike (BJG1285-MS1)		Source: 26G2151-01		Prepared & Analyzed: 07/24/2026						
1,1,1,2-Tetrachloroethane	50.0		ug/L	50.0	BLOD	100	80-130			
1,1,1-Trichloroethane	46.9		ug/L	50.0	BLOD	93.8	65-130			
1,1,2,2-Tetrachloroethane	53.8		ug/L	50.0	BLOD	108	65-130			
1,1,2-Trichloroethane	53.0		ug/L	50.0	BLOD	106	75-125			
1,1-Dichloroethane	49.6		ug/L	50.0	BLOD	99.2	70-135			
1,1-Dichloroethylene	41.3		ug/L	50.0	BLOD	82.5	50-145			
1,1-Dichloropropene	47.1		ug/L	50.0	BLOD	94.3	75-135			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1285 - SW5030B-MS										
Matrix Spike (BJG1285-MS1)		Source: 26G2151-01		Prepared & Analyzed: 07/24/2026						
1,2,3-Trichlorobenzene	47.2		ug/L	50.0	BLOD	94.5	55-140			
1,2,3-Trichloropropane	52.5		ug/L	50.0	BLOD	105	75-125			
1,2,4-Trichlorobenzene	47.9		ug/L	50.0	BLOD	95.8	65-135			
1,2,4-Trimethylbenzene	58.0		ug/L	50.0	286	-456	75-130			M
1,2-Dibromo-3-chloropropane (DBCP)	49.2		ug/L	50.0	BLOD	98.4	50-130			
1,2-Dibromoethane (EDB)	51.4		ug/L	50.0	BLOD	103	80-120			
1,2-Dichlorobenzene	50.0		ug/L	50.0	BLOD	100	70-120			
1,2-Dichloroethane	49.5		ug/L	50.0	BLOD	98.9	70-130			
1,2-Dichloropropane	51.1		ug/L	50.0	BLOD	102	75-125			
1,3,5-Trimethylbenzene	50.4		ug/L	50.0	69.4	-37.9	75-124			M
1,3-Dichlorobenzene	47.6		ug/L	50.0	BLOD	95.1	75-125			
1,3-Dichloropropane	52.7		ug/L	50.0	BLOD	105	75-125			
1,4-Dichlorobenzene	47.9		ug/L	50.0	BLOD	95.8	75-125			
2,2-Dichloropropane	49.8		ug/L	50.0	BLOD	99.7	70-135			
2-Butanone (MEK)	49.8		ug/L	50.0	BLOD	99.7	30-150			
2-Chlorotoluene	44.5		ug/L	50.0	BLOD	88.9	75-125			
2-Hexanone (MBK)	53.8		ug/L	50.0	BLOD	108	55-130			
4-Chlorotoluene	46.3		ug/L	50.0	BLOD	92.7	75-130			
4-Isopropyltoluene	47.6		ug/L	50.0	3.40	88.4	75-130			
4-Methyl-2-pentanone (MIBK)	57.0		ug/L	50.0	20.2	73.5	60-135			
Acetone	34.8		ug/L	50.0	47.8	-26.0	40-140			M
Benzene	49.1		ug/L	50.0	38.8	20.7	80-120			M
Bromobenzene	48.6		ug/L	50.0	BLOD	97.1	75-125			
Bromochloromethane	49.5		ug/L	50.0	BLOD	99.0	65-130			
Bromodichloromethane	49.2		ug/L	50.0	BLOD	98.5	75-136			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1285 - SW5030B-MS										
Matrix Spike (BJG1285-MS1)		Source: 26G2151-01		Prepared & Analyzed: 07/24/2026						
Bromoform	56.3		ug/L	50.0	BLOD	113	70-130			
Bromomethane	40.5		ug/L	50.0	BLOD	81.0	30-145			
Carbon disulfide	35.6		ug/L	50.0	3.20	64.8	35-160			
Carbon tetrachloride	44.9		ug/L	50.0	BLOD	89.7	65-140			
Chlorobenzene	46.9		ug/L	50.0	BLOD	93.8	80-120			
Chloroethane	41.9		ug/L	50.0	BLOD	83.8	60-135			
Chloroform	46.5		ug/L	50.0	BLOD	93.0	65-135			
Chloromethane	39.8		ug/L	50.0	BLOD	79.6	40-125			
cis-1,2-Dichloroethylene	47.2		ug/L	50.0	BLOD	94.4	70-125			
cis-1,3-Dichloropropene	54.1		ug/L	50.0	BLOD	108	47-136			
Dibromochloromethane	54.7		ug/L	50.0	BLOD	109	60-135			
Dibromomethane	51.6		ug/L	50.0	BLOD	103	75-125			
Dichlorodifluoromethane	39.6		ug/L	50.0	BLOD	79.2	30-155			
Ethylbenzene	52.4		ug/L	50.0	191	-278	75-125			M
Hexachlorobutadiene	42.0		ug/L	50.0	BLOD	84.0	50-140			
Isopropylbenzene	46.5		ug/L	50.0	15.2	62.6	75-125			M
m+p-Xylenes	116		ug/L	100	726	-610	75-130			M
Methylene chloride	44.6		ug/L	50.0	45.6	-1.98	55-140			M
Methyl-t-butyl ether (MTBE)	54.9		ug/L	50.0	BLOD	110	65-125			
Naphthalene	51.4		ug/L	50.0	22.4	57.9	55-140			
n-Butylbenzene	51.5		ug/L	50.0	BLOD	103	70-135			
n-Propylbenzene	47.6		ug/L	50.0	39.2	16.8	70-130			M
o-Xylene	56.0		ug/L	50.0	323	-535	80-120			M
sec-Butylbenzene	47.2		ug/L	50.0	2.60	89.3	70-125			
Styrene	52.7		ug/L	50.0	BLOD	105	65-135			

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Volatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG1285 - SW5030B-MS

Matrix Spike (BJG1285-MS1)		Source: 26G2151-01		Prepared & Analyzed: 07/24/2026						
tert-Butylbenzene	46.5		ug/L	50.0	BLOD	93.0	70-130			
Tetrachloroethylene (PCE)	40.3		ug/L	50.0	BLOD	80.6	51-231			
Toluene	65.7		ug/L	50.0	718	-1300	75-120			M
trans-1,2-Dichloroethylene	43.8		ug/L	50.0	BLOD	87.7	60-140			
trans-1,3-Dichloropropene	58.6		ug/L	50.0	BLOD	117	55-140			
Trichloroethylene	46.8		ug/L	50.0	BLOD	93.6	70-125			
Trichlorofluoromethane	40.0		ug/L	50.0	BLOD	80.0	60-145			
Vinyl chloride	43.5		ug/L	50.0	BLOD	87.1	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	48.2		ug/L	50.0		96.4	70-120			
Surr: 4-Bromofluorobenzene (Surr)	52.0		ug/L	50.0		104	75-120			
Surr: Dibromofluoromethane (Surr)	49.2		ug/L	50.0		98.4	70-130			
Surr: Toluene-d8 (Surr)	50.3		ug/L	50.0		101	70-130			

Certificate of Analysis

Client Name: SCS Engineers - Winchester
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Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Semivolatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ0928 - SW3510C/EPA600-MS

Blank (BJG0928-BLK1)

Prepared & Analyzed: 07/20/2026

Anthracene	ND	10.0	ug/L							
Surr: 2,4,6-Tribromophenol (Surr)	58.8		ug/L	100		58.8	5-136			
Surr: 2-Fluorobiphenyl (Surr)	35.0		ug/L	50.0		70.0	9-117			
Surr: 2-Fluorophenol (Surr)	57.9		ug/L	100		57.9	5-60			
Surr: Nitrobenzene-d5 (Surr)	45.3		ug/L	50.0		90.6	5-151			
Surr: Phenol-d5 (Surr)	33.0		ug/L	100		33.0	5-60			
Surr: p-Terphenyl-d14 (Surr)	36.7		ug/L	50.0		73.4	5-141			

LCS (BJG0928-BS1)

Prepared & Analyzed: 07/20/2026

1,2,4-Trichlorobenzene	35.0	10.0	ug/L	50.0		70.1	57-130			
1,2-Dichlorobenzene	35.2	10.0	ug/L	50.0		70.4	22-115			
1,3-Dichlorobenzene	35.1	10.0	ug/L	50.0		70.2	22-112			
1,4-Dichlorobenzene	36.2	10.0	ug/L	50.0		72.5	13-112			
2,4,6-Trichlorophenol	42.4	10.0	ug/L	50.0		84.7	52-129			
2,4-Dichlorophenol	39.2	10.0	ug/L	50.0		78.5	53-122			
2,4-Dimethylphenol	36.7	5.00	ug/L	50.0		73.3	42-120			
2,4-Dinitrophenol	24.0	50.0	ug/L	50.0		47.9	48-127			L
2,4-Dinitrotoluene	40.4	10.0	ug/L	50.0		80.8	10-173			
2,6-Dinitrotoluene	37.5	10.0	ug/L	50.0		75.0	68-137			
2-Chloronaphthalene	36.7	10.0	ug/L	50.0		73.4	65-120			
2-Chlorophenol	37.0	10.0	ug/L	50.0		74.0	36-120			
2-Nitrophenol	38.8	10.0	ug/L	50.0		77.7	45-167			
3,3'-Dichlorobenzidine	41.7	10.0	ug/L	50.0		83.3	10-213			
4,6-Dinitro-2-methylphenol	29.2	50.0	ug/L	50.0		58.4	53-130			
4-Bromophenyl phenyl ether	37.7	10.0	ug/L	50.0		75.4	65-120			

Certificate of Analysis

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Work Order: 26G1507

Semivolatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG0928 - SW3510C/EPA600-MS										
LCS (BJG0928-BS1)				Prepared & Analyzed: 07/20/2026						
4-Chlorophenyl phenyl ether	41.7	10.0	ug/L	50.0		83.3	38-145			
4-Nitrophenol	20.7	50.0	ug/L	50.0		41.4	13-129			
Acenaphthene	40.2	10.0	ug/L	50.0		80.3	60-132			
Acenaphthylene	37.6	10.0	ug/L	50.0		75.2	54-126			
Acetophenone	37.3	20.0	ug/L	50.0		74.7	0-200			
Anthracene	38.2	10.0	ug/L	50.0		76.3	43-120			
Benzo (a) anthracene	35.2	10.0	ug/L	50.0		70.4	42-133			
Benzo (a) pyrene	35.9	10.0	ug/L	50.0		71.8	32-148			
Benzo (b) fluoranthene	44.6	10.0	ug/L	50.0		89.2	42-140			
Benzo (g,h,i) perylene	27.6	10.0	ug/L	50.0		55.1	10-195			
Benzo (k) fluoranthene	34.8	10.0	ug/L	50.0		69.5	25-146			
bis (2-Chloroethoxy) methane	39.7	10.0	ug/L	50.0		79.4	49-165			
bis (2-Chloroethyl) ether	33.2	10.0	ug/L	50.0		66.5	43-126			
2,2'-Oxybis (1-chloropropane)	39.8	10.0	ug/L	50.0		79.6	63-139			
bis (2-Ethylhexyl) phthalate	51.6	10.0	ug/L	50.0		103	29-137			
Butyl benzyl phthalate	58.0	10.0	ug/L	50.0		116	10-140			
Chrysene	31.3	10.0	ug/L	50.0		62.5	44-140			
Dibenz (a,h) anthracene	33.0	10.0	ug/L	50.0		65.9	10-200			
Diethyl phthalate	47.0	10.0	ug/L	50.0		93.9	10-120			
Dimethyl phthalate	42.3	10.0	ug/L	50.0		84.6	10-120			
Di-n-butyl phthalate	49.1	10.0	ug/L	50.0		98.3	10-120			
Di-n-octyl phthalate	65.0	10.0	ug/L	50.0		130	19-132			
Fluoranthene	41.2	10.0	ug/L	50.0		82.5	43-121			
Fluorene	42.5	10.0	ug/L	50.0		85.0	70-120			
Hexachlorobenzene	30.8	2.50	ug/L	50.0		61.7	10-142			

Certificate of Analysis

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Work Order: 26G1507

Semivolatile Organic Compounds by GCMS - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJG0928 - SW3510C/EPA600-MS

LCS (BJG0928-BS1)

Prepared & Analyzed: 07/20/2026

Hexachlorobutadiene	40.7	10.0	ug/L	50.0		81.4	38-120			
Hexachlorocyclopentadiene	13.1	10.0	ug/L	50.0		26.1	10-76			
Hexachloroethane	36.6	10.0	ug/L	50.0		73.3	55-120			
Indeno (1,2,3-cd) pyrene	31.6	10.0	ug/L	50.0		63.1	10-151			
Isophorone	31.9	10.0	ug/L	50.0		63.9	47-180			
Naphthalene	40.7	5.00	ug/L	50.0		81.4	36-120			
Nitrobenzene	42.9	10.0	ug/L	50.0		85.9	54-158			
n-Nitrosodimethylamine	20.9	10.0	ug/L	50.0		41.9	10-85			
n-Nitrosodi-n-propylamine	45.2	10.0	ug/L	50.0		90.4	14-198			
n-Nitrosodiphenylamine	31.9	10.0	ug/L	50.0		63.7	12-97			
p-Chloro-m-cresol	45.3	10.0	ug/L	50.0		90.7	10-142			
Pentachlorophenol	32.6	20.0	ug/L	50.0		65.1	38-152			
Phenanthrene	44.8	10.0	ug/L	50.0		89.6	65-120			
Phenol	21.7	10.0	ug/L	50.5		42.9	17-120			
Pyrene	42.6	10.0	ug/L	50.0		85.2	70-120			
Pyridine	25.6	10.0	ug/L	50.0		51.2	10-75			
Surr: 2,4,6-Tribromophenol (Surr)	70.2		ug/L	100		70.2	5-136			
Surr: 2-Fluorobiphenyl (Surr)	37.4		ug/L	50.0		74.8	9-117			
Surr: 2-Fluorophenol (Surr)	54.9		ug/L	100		54.9	5-60			
Surr: Nitrobenzene-d5 (Surr)	43.0		ug/L	50.0		86.1	5-151			
Surr: Phenol-d5 (Surr)	32.0		ug/L	100		32.0	5-60			
Surr: p-Terphenyl-d14 (Surr)	33.7		ug/L	50.0		67.4	5-141			

Certificate of Analysis

Client Name: SCS Engineers - Winchester
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Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Ion Chromatography Analyses - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ1446 - No Prep IC										
Blank (BJG1446-BLK1)				Prepared & Analyzed: 07/28/2026						
Acetic Acid	ND	0.5	mg/L							
Butyric Acid	ND	0.5	mg/L							
Lactic Acid	ND	0.5	mg/L							
Propionic Acid	ND	0.5	mg/L							
Pyruvic Acid	ND	0.5	mg/L							
LCS (BJG1446-BS1)				Prepared & Analyzed: 07/28/2026						
Acetic Acid	4.8		mg/L	5.00		96.8	70-130			
Butyric Acid	4.5		mg/L	5.00		89.3	70-130			
Formic Acid	4.4		mg/L	5.00		88.2	70-130			
n-Hexanoic Acid	3.7		mg/L	5.00		73.9	70-130			
i-Hexanoic Acid	3.9	0.5	mg/L				70-130			
Lactic Acid	4.1		mg/L	5.00		82.7	70-130			
n-Pentanoic Acid	3.9		mg/L	5.00		78.2	70-130			
i-Pentanoic Acid	4.3		mg/L	5.00		85.6	70-130			
Propionic Acid	4.9		mg/L	5.00		97.7	70-130			
Pyruvic Acid	4.2		mg/L	5.00		83.9	70-130			
Matrix Spike (BJG1446-MS1)				Source: 26G1507-01		Prepared & Analyzed: 07/28/2026				
Acetic Acid	8030	500	mg/L	5000	4960	61.5	70-130			M
Butyric Acid	5190	500	mg/L	5000	1570	72.5	70-130			
Formic Acid	5730	500	mg/L	5000	1880	77.1	70-130			
n-Hexanoic Acid	4350	500	mg/L	5000	293	81.2	70-130			
i-Hexanoic Acid	3890	500	mg/L	5000	BLOD	77.8	70-130			
Lactic Acid	5590	500	mg/L	5000	1500	81.7	70-130			
n-Pentanoic Acid	4010	500	mg/L	5000	216	75.9	70-130			

Certificate of Analysis

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Ion Chromatography Analyses - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BJJ1446 - No Prep IC

Matrix Spike (BJG1446-MS1)		Source: 26G1507-01		Prepared & Analyzed: 07/28/2026						
i-Pentanoic Acid	4130	500	mg/L	5000	171	79.1	70-130			
Propionic Acid	4890	500	mg/L	5000	1110	75.7	70-130			
Pyruvic Acid	3900	500	mg/L	5000	144	75.0	70-130			
Matrix Spike Dup (BJG1446-MSD1)		Source: 26G1507-01		Prepared & Analyzed: 07/28/2026						
Acetic Acid	8550	500	mg/L	5000	4960	72.0	70-130	6.32	20	
Butyric Acid	5670	500	mg/L	5000	1570	82.0	70-130	8.77	20	
Formic Acid	6120	500	mg/L	5000	1880	84.8	70-130	6.44	20	
n-Hexanoic Acid	4550	500	mg/L	5000	293	85.2	70-130	4.55	20	
i-Hexanoic Acid	4090	500	mg/L	5000	BLOD	81.9	70-130	5.09	20	
Lactic Acid	5900	500	mg/L	5000	1500	88.1	70-130	5.50	20	
n-Pentanoic Acid	4180	500	mg/L	5000	216	79.4	70-130	4.21	20	
i-Pentanoic Acid	4410	500	mg/L	5000	171	84.8	70-130	6.62	20	
Propionic Acid	5480	500	mg/L	5000	1110	87.4	70-130	11.3	20	
Pyruvic Acid	4190	500	mg/L	5000	144	80.8	70-130	7.17	20	

Certificate of Analysis

Client Name: SCS Engineers - Winchester
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Work Order: 26G1507

Wet Chemistry Analysis - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ0778 - No Prep Wet Chem										
Blank (BJG0778-BLK1)				Prepared & Analyzed: 07/16/2026						
BOD	ND	2.0	mg/L							
LCS (BJG0778-BS1)				Prepared & Analyzed: 07/16/2026						
BOD	207		mg/L	198		105	84.6-115.4			
Duplicate (BJG0778-DUP1)				Source: 26G1432-01 Prepared & Analyzed: 07/16/2026						
BOD	ND	2.0	mg/L		BLOD				20	
Batch BJJ0787 - No Prep Wet Chem										
Blank (BJG0787-BLK1)				Prepared & Analyzed: 07/16/2026						
Nitrite as N	ND	0.05	mg/L							
LCS (BJG0787-BS1)				Prepared & Analyzed: 07/16/2026						
Nitrite as N	0.10	0.05	mg/L	0.100		100	80-120			
Matrix Spike (BJG0787-MS1)				Source: 26G1332-01 Prepared & Analyzed: 07/16/2026						
Nitrite as N	0.09	0.05	mg/L	0.100	BLOD	94.5	80-120			
Matrix Spike Dup (BJG0787-MSD1)				Source: 26G1332-01 Prepared & Analyzed: 07/16/2026						
Nitrite as N	0.09	0.05	mg/L	0.100	BLOD	93.9	80-120	0.667	20	
Batch BJJ1096 - No Prep Wet Chem										
Blank (BJG1096-BLK1)				Prepared: 07/22/2026 Analyzed: 07/23/2026						
TKN as N	ND	0.10	mg/L							

Certificate of Analysis

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Work Order: 26G1507

Wet Chemistry Analysis - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ1096 - No Prep Wet Chem										
LCS (BJG1096-BS1)				Prepared: 07/22/2026 Analyzed: 07/23/2026						
TKN as N	5.17		mg/L	5.00		103	90-110			
Matrix Spike (BJG1096-MS1)				Source: 26G2076-01 Prepared: 07/22/2026 Analyzed: 07/23/2026						
TKN as N	5.94	0.10	mg/L	5.00	0.86	102	90-110			
Matrix Spike (BJG1096-MS2)				Source: 26G1375-01 Prepared: 07/22/2026 Analyzed: 07/23/2026						
TKN as N	5.52	0.10	mg/L	5.00	0.94	91.7	90-110			
Matrix Spike Dup (BJG1096-MSD1)				Source: 26G2076-01 Prepared: 07/22/2026 Analyzed: 07/23/2026						
TKN as N	5.73	0.10	mg/L	5.00	0.86	97.3	90-110	3.69	20	
Matrix Spike Dup (BJG1096-MSD2)				Source: 26G1375-01 Prepared: 07/22/2026 Analyzed: 07/23/2026						
TKN as N	5.85	0.10	mg/L	5.00	0.94	98.3	90-110	5.85	20	
Batch BJJ1172 - No Prep Wet Chem										
Blank (BJG1172-BLK1)				Prepared: 07/23/2026 Analyzed: 07/24/2026						
TKN as N	ND	0.50	mg/L							
LCS (BJG1172-BS1)				Prepared: 07/23/2026 Analyzed: 07/24/2026						
TKN as N	5.27		mg/L	5.00		105	90-110			
Matrix Spike (BJG1172-MS1)				Source: 26G1375-02 Prepared: 07/23/2026 Analyzed: 07/24/2026						
TKN as N	6.09	0.50	mg/L	5.00	1.36	94.6	90-110			
Matrix Spike (BJG1172-MS2)				Source: 26G2179-02 Prepared: 07/23/2026 Analyzed: 07/24/2026						
TKN as N	5.15	0.50	mg/L	5.00	0.60	90.9	90-110			

Certificate of Analysis

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Wet Chemistry Analysis - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1172 - No Prep Wet Chem										
Matrix Spike Dup (BJG1172-MSD1)		Source: 26G1375-02		Prepared: 07/23/2026 Analyzed: 07/24/2026						
TKN as N	6.14	0.50	mg/L	5.00	1.36	95.7	90-110	0.883	20	
Matrix Spike Dup (BJG1172-MSD2)		Source: 26G2179-02		Prepared: 07/23/2026 Analyzed: 07/24/2026						
TKN as N	4.73	0.50	mg/L	5.00	0.60	82.5	90-110	8.48	20	M
Batch BJG1238 - No Prep Wet Chem										
Blank (BJG1238-BLK1)				Prepared & Analyzed: 07/24/2026						
Total Recoverable Phenolics	ND	0.050	mg/L							
LCS (BJG1238-BS1)				Prepared & Analyzed: 07/24/2026						
Total Recoverable Phenolics	0.59	0.050	mg/L	0.500		117	80-120			
Matrix Spike (BJG1238-MS1)		Source: 26G1507-08		Prepared & Analyzed: 07/24/2026						
Total Recoverable Phenolics	1.80	2.50	mg/L	25.0	BLOD	7.20	70-130	M		
Matrix Spike Dup (BJG1238-MSD1)		Source: 26G1507-08		Prepared & Analyzed: 07/24/2026						
Total Recoverable Phenolics	1.80	2.50	mg/L	25.0	BLOD	7.20	70-130	0.00	20	M
Batch BJG1275 - No Prep Wet Chem										
Blank (BJG1275-BLK1)				Prepared: 07/24/2026 Analyzed: 07/27/2026						
TKN as N	ND	0.50	mg/L							
LCS (BJG1275-BS1)				Prepared: 07/24/2026 Analyzed: 07/27/2026						
TKN as N	5.19		mg/L	5.00		104	90-110			

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Wet Chemistry Analysis - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ1275 - No Prep Wet Chem										
Matrix Spike (BJG1275-MS1)		Source: 26G2507-01		Prepared: 07/24/2026 Analyzed: 07/27/2026						
TKN as N	5.48	0.50	mg/L	5.00	0.72	95.3	90-110			
Matrix Spike (BJG1275-MS2)		Source: 26G2399-02		Prepared: 07/24/2026 Analyzed: 07/27/2026						
TKN as N	5.84	0.50	mg/L	5.00	0.88	99.3	90-110			
Matrix Spike Dup (BJG1275-MSD1)		Source: 26G2507-01		Prepared: 07/24/2026 Analyzed: 07/27/2026						
TKN as N	5.99	0.50	mg/L	5.00	0.72	105	90-110	8.80	20	
Matrix Spike Dup (BJG1275-MSD2)		Source: 26G2399-02		Prepared: 07/24/2026 Analyzed: 07/27/2026						
TKN as N	5.63	0.50	mg/L	5.00	0.88	95.1	90-110	3.70	20	
Batch BJJ1390 - No Prep Wet Chem										
Blank (BJG1390-BLK1)		Prepared & Analyzed: 07/28/2026								
Total Recoverable Phenolics	ND	0.050	mg/L							
LCS (BJG1390-BS1)		Prepared & Analyzed: 07/28/2026								
Total Recoverable Phenolics	0.53	0.050	mg/L	0.500		105	80-120			
Matrix Spike (BJG1390-MS1)		Source: 26G1507-08RE1		Prepared & Analyzed: 07/28/2026						
Total Recoverable Phenolics	1.56	0.250	mg/L	0.500	1.07	98.0	70-130			
Matrix Spike Dup (BJG1390-MSD1)		Source: 26G1507-08RE1		Prepared & Analyzed: 07/28/2026						
Total Recoverable Phenolics	1.54	0.250	mg/L	0.500	1.07	94.0	70-130	1.29	20	
Batch BJJ1411 - No Prep Wet Chem										
Blank (BJG1411-BLK1)		Prepared & Analyzed: 07/28/2026								
Ammonia as N	ND	0.10	mg/L							

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Wet Chemistry Analysis - Quality Control

Onterris Laboratories - Richmond

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJG1411 - No Prep Wet Chem										
LCS (BJG1411-BS1)				Prepared & Analyzed: 07/28/2026						
Ammonia as N	1.09		mg/L	1.00		109	90-110			
Matrix Spike (BJG1411-MS1)				Source: 26G2101-01 Prepared & Analyzed: 07/28/2026						
Ammonia as N	1.34	0.10	mg/L	1.00	0.33	101	90-110			
Matrix Spike (BJG1411-MS2)				Source: 26G1354-02 Prepared & Analyzed: 07/28/2026						
Ammonia as N	1.16	0.10	mg/L	1.00	BLOD	116	90-110			M
Matrix Spike Dup (BJG1411-MSD1)				Source: 26G2101-01 Prepared & Analyzed: 07/28/2026						
Ammonia as N	1.70	0.10	mg/L	1.00	0.33	137	90-110	23.8	20	M, P
Matrix Spike Dup (BJG1411-MSD2)				Source: 26G1354-02 Prepared & Analyzed: 07/28/2026						
Ammonia as N	1.06	0.10	mg/L	1.00	BLOD	106	90-110	8.37	20	
Batch BJG1416 - No Prep Wet Chem										
Blank (BJG1416-BLK1)				Prepared & Analyzed: 07/28/2026						
Nitrate+Nitrite as N	ND	0.10	mg/L							
LCS (BJG1416-BS1)				Prepared & Analyzed: 07/28/2026						
Nitrate+Nitrite as N	1.07		mg/L	1.00		107	90-110			
Matrix Spike (BJG1416-MS1)				Source: 26G1354-06 Prepared & Analyzed: 07/28/2026						
Nitrate+Nitrite as N	13.5	0.20	mg/L	10.0	2.36	111	90-120			
Matrix Spike Dup (BJG1416-MSD1)				Source: 26G1354-06 Prepared & Analyzed: 07/28/2026						
Nitrate+Nitrite as N	13.4	0.20	mg/L	10.0	2.36	110	90-120	0.894	20	

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Wet Chemistry Analysis - Quality Control

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BJJ1478 - No Prep Wet Chem										
Blank (BJG1478-BLK1)				Prepared & Analyzed: 07/29/2026						
COD	ND	10.0	mg/L							
LCS (BJG1478-BS1)				Prepared & Analyzed: 07/29/2026						
COD	51.5	10.0	mg/L	50.0		103	88-119			
Matrix Spike (BJG1478-MS1)				Source: 26G2206-01 Prepared & Analyzed: 07/29/2026						
COD	56.2	10.0	mg/L	50.0	BLOD	112	72.4-130			
Matrix Spike Dup (BJG1478-MSD1)				Source: 26G2206-01 Prepared & Analyzed: 07/29/2026						
COD	60.3	10.0	mg/L	50.0	BLOD	121	72.4-130	7.02	20	
Batch BJJ1483 - No Prep Wet Chem										
Blank (BJG1483-BLK1)				Prepared & Analyzed: 07/29/2026						
Nitrate+Nitrite as N	ND	0.10	mg/L							
LCS (BJG1483-BS1)				Prepared & Analyzed: 07/29/2026						
Nitrate+Nitrite as N	0.90		mg/L	1.00		90.0	90-110			
Matrix Spike (BJG1483-MS1)				Source: 26G2177-01 Prepared & Analyzed: 07/29/2026						
Nitrate+Nitrite as N	0.90	0.10	mg/L	1.00	BLOD	89.7	90-120			M
Matrix Spike Dup (BJG1483-MSD1)				Source: 26G2177-01 Prepared & Analyzed: 07/29/2026						
Nitrate+Nitrite as N	0.86	0.10	mg/L	1.00	BLOD	86.5	90-120	3.63	20	M

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Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Ion Chromatography Analyses			Preparation Method:	No Prep IC	
26G1507-01	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
26G1507-02	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
26G1507-03	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
26G1507-04	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
26G1507-05	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
26G1507-06	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
26G1507-07	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
26G1507-07RE1	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
26G1507-08	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method:	No Prep Wet Chem	
26G1507-01	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
26G1507-02	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
26G1507-03	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
26G1507-04	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
26G1507-05	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
26G1507-06	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
26G1507-07	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
26G1507-08	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
26G1507-01	1.00 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
26G1507-02	1.00 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
26G1507-03	1.00 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
26G1507-04	1.00 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
26G1507-05	1.00 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
26G1507-06	1.00 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method:	No Prep Wet Chem	
26G1507-07	5.00 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
26G1507-08	5.00 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
26G1507-01	0.0500 mL / 25.0 mL	EPA351.2 R2.0	BJG1096	SJG0935	AG60316
26G1507-08	0.0500 mL / 25.0 mL	EPA351.2 R2.0	BJG1096	SJG0935	AG60316
26G1507-04	0.0500 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
26G1507-05	0.0500 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
26G1507-06	0.0500 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
26G1507-07	0.0500 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
26G1507-01	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
26G1507-02	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
26G1507-03	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
26G1507-04	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
26G1507-05	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
26G1507-06	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
26G1507-07	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
26G1507-08	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
26G1507-02	0.0500 mL / 25.0 mL	EPA351.2 R2.0	BJG1275	SJG1058	AG60333
26G1507-03	0.0500 mL / 25.0 mL	EPA351.2 R2.0	BJG1275	SJG1058	AG60333
26G1507-08RE1	5.00 mL / 10.0 mL	SW9065	BJG1390	SJG1104	AG60346
26G1507-01	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
26G1507-02	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
26G1507-03	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
26G1507-04	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
26G1507-05	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
26G1507-06	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
26G1507-07	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
26G1507-08	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
26G1507-01	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1416	SJG1127	AG60310

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Wet Chemistry Analysis			Preparation Method: No Prep Wet Chem		
26G1507-02	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1416	SJG1127	AG60310
26G1507-03	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1416	SJG1127	AG60310
26G1507-01	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
26G1507-02	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
26G1507-03	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
26G1507-04	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
26G1507-05	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
26G1507-06	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
26G1507-07	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
26G1507-08	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
26G1507-04	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359
26G1507-05	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359
26G1507-06	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359
26G1507-07	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359
26G1507-08	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method: SW3005A-ICPMS		
26G1507-02	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
26G1507-02RE1	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
26G1507-03	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
26G1507-03RE1	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
26G1507-07	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
26G1507-07RE1	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
26G1507-08	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
26G1507-08RE1	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
26G1507-01	50.0 mL / 50.0 mL	SW6020B	BJG1026	SJG0941	AG60318
26G1507-04	50.0 mL / 50.0 mL	SW6020B	BJG1026	SJG0941	AG60318

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method: SW3005A-ICPMS		
26G1507-05	50.0 mL / 50.0 mL	SW6020B	BJG1026	SJG0941	AG60318
26G1507-06	50.0 mL / 50.0 mL	SW6020B	BJG1026	SJG0941	AG60318

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			Preparation Method: SW3510C/EPA600-MS		
26G1507-01	500 mL / 5.00 mL	SW8270E	BJG0928	SJG0818	AD60288
26G1507-02	500 mL / 5.00 mL	SW8270E	BJG0928	SJG0818	AD60288
26G1507-03	500 mL / 5.00 mL	SW8270E	BJG0928	SJG0818	AD60288
26G1507-04	500 mL / 5.00 mL	SW8270E	BJG0928	SJG0818	AD60288
26G1507-05	500 mL / 5.00 mL	SW8270E	BJG0928	SJG0818	AD60288
26G1507-06	500 mL / 5.00 mL	SW8270E	BJG0928	SJG0818	AD60288
26G1507-07	500 mL / 0.500 mL	SW8270E	BJG0928	SJG0818	AD60288
26G1507-08	500 mL / 0.500 mL	SW8270E	BJG0928	SJG0818	AD60288

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			Preparation Method: SW5030B-MS		
26G1507-01	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
26G1507-02	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
26G1507-03	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
26G1507-04	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
26G1507-05	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
26G1507-06	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
26G1507-07	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
26G1507-08	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
26G1507-09	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
26G1507-02RE1	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	
26G1507-06RE1	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			Preparation Method: SW5030B-MS		
26G1507-07RE1	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	
26G1507-01RE1	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
26G1507-02RE2	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
26G1507-03RE1	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
26G1507-04RE1	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
26G1507-05RE1	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
26G1507-07RE2	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
26G1507-08RE1	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234

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QC Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Ion Chromatography Analyses			Preparation Method:	No Prep IC	
BJG1446-BLK1	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
BJG1446-BS1	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
BJG1446-MRL1	1.00 mL / 1.00 mL	In house	BJG1446	SJG1169	AG60351
BJG1446-MS1	0.00500 mL / 5.00 mL	In house	BJG1446	SJG1169	AG60351
BJG1446-MSD1	0.00500 mL / 5.00 mL	In house	BJG1446	SJG1169	AG60351

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method:	No Prep Wet Chem	
BJG0778-BLK1	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
BJG0778-BS1	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
BJG0778-DUP1	300 mL / 300 mL	SM5210B-2016	BJG0778	SJG0680	
BJG0787-BLK1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
BJG0787-BS1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
BJG0787-MRL1		SM4500-NO2B-2021	BJG0787		
BJG0787-MS1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
BJG0787-MSD1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BJG0787	SJG0644	AG60167
BJG1096-BLK1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1096	SJG0935	AG60316
BJG1096-BS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1096	SJG0935	AG60316
BJG1096-MRL1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1096	SJG0935	AG60316
BJG1096-MS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1096	SJG0935	AG60316
BJG1096-MS2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1096	SJG0935	AG60316
BJG1096-MSD1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1096	SJG0935	AG60316
BJG1096-MSD2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1096	SJG0935	AG60316
BJG1172-BLK1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
BJG1172-BS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method:	No Prep Wet Chem	
BJG1172-MRL1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
BJG1172-MS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
BJG1172-MS2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
BJG1172-MSD1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
BJG1172-MSD2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1172	SJG0986	AG60324
BJG1238-BLK1	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
BJG1238-BS1	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
BJG1238-MRL1	5.00 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
BJG1238-MS1	0.100 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
BJG1238-MSD1	0.100 mL / 10.0 mL	SW9065	BJG1238	SJG0994	AG60329
BJG1275-BLK1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1275	SJG1058	AG60333
BJG1275-BS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1275	SJG1058	AG60333
BJG1275-MRL1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1275	SJG1058	AG60333
BJG1275-MS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1275	SJG1058	AG60333
BJG1275-MS2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1275	SJG1058	AG60333
BJG1275-MSD1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1275	SJG1058	AG60333
BJG1275-MSD2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BJG1275	SJG1058	AG60333
BJG1390-BLK1	5.00 mL / 10.0 mL	SW9065	BJG1390	SJG1104	AG60346
BJG1390-BS1	5.00 mL / 10.0 mL	SW9065	BJG1390	SJG1104	AG60346
BJG1390-MRL1	5.00 mL / 10.0 mL	SW9065	BJG1390	SJG1104	AG60346
BJG1390-MS1	5.00 mL / 10.0 mL	SW9065	BJG1390	SJG1104	AG60346
BJG1390-MSD1	5.00 mL / 10.0 mL	SW9065	BJG1390	SJG1104	AG60346
BJG1411-BLK1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
BJG1411-BS1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
BJG1411-MRL1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
BJG1411-MS1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
BJG1411-MS2	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
BJG1411-MSD1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348
BJG1411-MSD2	6.00 mL / 6.00 mL	EPA350.1 R2.0	BJG1411	SJG1136	AG60348

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method:	No Prep Wet Chem	
BJG1416-BLK1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1416	SJG1127	AG60310
BJG1416-BS1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1416	SJG1127	AG60310
BJG1416-MS1	1.00 mL / 10.0 mL	SM4500-NO3F-2019	BJG1416	SJG1127	AG60310
BJG1416-MSD1	1.00 mL / 10.0 mL	SM4500-NO3F-2019	BJG1416	SJG1127	AG60310
BJG1478-BLK1	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
BJG1478-BS1	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
BJG1478-MRL1	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
BJG1478-MS1	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
BJG1478-MSD1	2.00 mL / 2.00 mL	SM5220D-2011	BJG1478	SJG1188	AG60194
BJG1483-BLK1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359
BJG1483-BS1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359
BJG1483-MRL1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359
BJG1483-MS1	10.0 mL / 10.0 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359
BJG1483-MSD1	10.0 mL / 10.0 mL	SM4500-NO3F-2019	BJG1483	SJG1190	AG60359

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method:	SW3005A-ICPMS	
BJG0932-BLK1	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
BJG0932-BS1	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
BJG0932-MS1	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
BJG0932-MSD1	50.0 mL / 50.0 mL	SW6020B	BJG0932	SJG0874	AG60306
BJG1026-BLK1	50.0 mL / 50.0 mL	SW6020B	BJG1026	SJG0941	AG60318
BJG1026-BS1	50.0 mL / 50.0 mL	SW6020B	BJG1026	SJG0941	AG60318
BJG1026-MS1	50.0 mL / 50.0 mL	SW6020B	BJG1026	SJG0941	AG60318
BJG1026-MSD1	50.0 mL / 50.0 mL	SW6020B	BJG1026	SJG0941	AG60318

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
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Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			Preparation Method: SW3510C/EPA600-MS		
BJG0928-BLK1	1000 mL / 1.00 mL	SW8270E	BJG0928	SJG0807	AE60304
BJG0928-BS1	1000 mL / 1.00 mL	SW8270E	BJG0928	SJG0807	AE60304
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			Preparation Method: SW5030B-MS		
BJG0895-BLK1	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
BJG0895-BLK2	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
BJG0895-BS1	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
BJG0895-DUP1	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
BJG0895-MS1	5.00 mL / 5.00 mL	SW8260D	BJG0895	SJG0833	
BJG0926-BLK1	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
BJG0926-BLK2	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
BJG0926-BS1	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
BJG0926-DUP1	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
BJG0926-DUP2	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
BJG0926-DUP3	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
BJG0926-DUP4	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
BJG0926-MS1	5.00 mL / 5.00 mL	SW8260D	BJG0926	SJG0834	
BJG1210-BLK1	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	
BJG1210-BLK2	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	
BJG1210-BLK3	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	
BJG1210-BS1	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	
BJG1210-BS2	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	
BJG1210-DUP1	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	
BJG1210-MS1	5.00 mL / 5.00 mL	SW8260D	BJG1210	SJG1003	
BJG1285-BLK1	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
BJG1285-BLK2	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
BJG1285-BS1	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			Preparation Method:	SW5030B-MS	
BJG1285-BS2	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
BJG1285-DUP1	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234
BJG1285-MS1	5.00 mL / 5.00 mL	SW8260D	BJG1285	SJG1026	AG60234

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA350.1 R2.0 in Non-Potable Water</i>	
Ammonia as N	VELAP,NCDEQ,PADEP,WVDEP,SCDES,TXCEQ
<i>EPA351.2 R2.0 in Non-Potable Water</i>	
TKN as N	VELAP,NCDEQ,WVDEP,SCDES,PADEP,TXCEQ
<i>SM4500-NO2B-2021 in Non-Potable Water</i>	
Nitrite as N	VELAP,WVDEP,NCDEQ,SCDES,PADEP
<i>SM4500-NO3F-2019 in Non-Potable Water</i>	
Nitrate+Nitrite as N	VELAP,WVDEP,NCDEQ,SCDES,PADEP
<i>SM5210B-2016 in Non-Potable Water</i>	
BOD	VELAP,NCDEQ,WVDEP,PADEP
<i>SM5220D-2011 in Non-Potable Water</i>	
COD	VELAP,NCDEQ,PADEP,WVDEP,SCDES,TXCEQ
<i>SW6020B in Non-Potable Water</i>	
Mercury	VELAP,NCDEQ,PADEP,WVDEP
Arsenic	VELAP,WVDEP,NCDEQ,SCDES,PADEP
Barium	VELAP,WVDEP,NCDEQ,SCDES,PADEP
Cadmium	VELAP,WVDEP,NCDEQ,SCDES,PADEP
Chromium	VELAP,WVDEP,NCDEQ,SCDES,PADEP
Copper	VELAP,WVDEP,NCDEQ,SCDES,PADEP
Lead	VELAP,WVDEP,SCDES,NCDEQ,PADEP
Nickel	VELAP,WVDEP,SCDES,NCDEQ,PADEP
Selenium	VELAP,WVDEP,SCDES,NCDEQ,PADEP
Silver	VELAP,WVDEP,SCDES,NCDEQ,PADEP
Zinc	VELAP,WVDEP,SCDES,NCDEQ,PADEP
<i>SW8260D in Non-Potable Water</i>	

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Certified Analyses included in this Report

Analyte	Certifications
2-Butanone (MEK)	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Acetone	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Benzene	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Ethylbenzene	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Toluene	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Xylenes, Total	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Tetrahydrofuran	VELAP
SW8270E in Non-Potable Water	
Anthracene	NCDEQ,VELAP,PADEP,WVDEP,TXCEQ
SW9065 in Non-Potable Water	
Total Recoverable Phenolics	VELAP,WVDEP,PADEP

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Code	Description	Laboratory ID	Expires
DURSC-NCDEQ	NCDEQ Durham Service Center	703	12/31/2026
DURSC-NCDHHS	NCDHHS Durham Service Center	37918	07/31/2026
MdDOE	Maryland DE Drinking Water	341	12/31/2026
NCDEQ	North Carolina DEQ	495	12/31/2026
NCDHHS	North Carolina Department of Health and Human Services	51714	07/31/2026
PADEP	NELAP-Pennsylvania Certificate #011	68-03503	10/31/2026
TXCEQ	Texas Commission on Environmental Quality TX-C26-00141	T104704576	05/31/2027
VELAP	NELAP-Virginia Certificate 13995	460021	09/30/2026
WVDEP	West Virginia DEP Cert ID: WV-C25-00166	350	11/30/2026

Certificate of Analysis

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Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Qualifiers and Definitions

DS Surrogate concentration reflects a dilution factor.
J The reported result is an estimated value.
L LCS recovery is outside of established acceptance limits
M Matrix spike recovery is outside established acceptance limits
M2 Sample was diluted due to matrix interference.
P Duplicate analysis does not meet the acceptance criteria for precision
pH The container used to analyze this sample had a pH measurement of greater than 2 s.u.
S Surrogate recovery was outside acceptance criteria

TextValuea >35157

TextValueb >35157.00

RPD Relative Percent Difference
Qual Qualifiers
-RE Denotes sample was re-analyzed
LOD Limit of Detection, same as Method Detection Limit (MDL) as defined by 40 CFR 136 Appendix B
BLOD Below Limit of Detection, same as Below Method Detection Limit (MDL) as defined by 40 CFR 136 Appendix B
LOQ Limit of Quantitation
DF Dilution Factor
DL Detection Limit, same as MDL as defined by 40 CFR 136 Appendix B
TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.
PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507



Chain of Custody

1941 Reymet Road, Richmond, VA, 23237 | #804.358.8295

LAB-COR-GF006-00

Page 1 of 1

Client: SCS Engineers - Winchester, VA
 Address: 296 Victory Road
 City/State/ZIP: Winchester VA 22602
 Phone/Email:
 Collected By: Logan Nelson *[Signature]*

Client Contact Name: Jennifer Robb
 Project Name/Number: Bristol LFG - EW Monthly
 Site Address:
 Invoice Info/PO#/Quote#:

Analysis Requested

	Sample Identification	Date (mm/dd/yyyy)		Time (24hr. clock)		Type	Matrix	# Units	Analysis Requested								Comments
		Start	Stop (Composite Only)	Start	Stop (Composite Only)				VOC 8260 - Bristol EW List	VFAs; Phenolics	TKN, Nitrate (cd), Ammonia	BOD, COD	SVOC (Anthracene Only)	Cyanide	As, Ba, Cd, Cr, Cu, Pb,	Ni, Se, Ag, Zn, Hg SW6020	
1	EW-54	7/14/26		1454			WW	11	X	X	X	X	X	X	X	X	
2	EW-55	7/15/26		800				10	X	X	X	X	X	X	X	X	
3	EW-59	7/14/26		1316				11	X	X	X	X	X	X	X	X	
4	EW-66	7/14/26		1422					X	X	X	X	X	X	X	X	
5	EW-67	7/15/26		745					X	X	X	X	X	X	X	X	
6	EW-68	7/15/26		831					X	X	X	X	X	X	X	X	
7	EW-74	7/15/26		845					X	X	X	X	X	X	X	X	
8	EW-98	7/14/26		1350					X	X	X	X	X	X	X	X	
9																	
10	Trip Blagn	6/21/26		1600			DT	2	X								
Preservative: 0=none 1=Na ₂ S ₂ O ₃ 2=HCl 3=H ₂ SO ₄ 4=NaOH 5=HNO ₃ 6=CH ₃ OH 7=Zn(CH ₃ CO ₂) ₂									Put codes here→								

Relinquished By ↓	Date ↓	Time ↓	Received By ↓	Date ↓	Time ↓
<i>[Signature]</i>	7/15/26	1200	<i>[Signature]</i>	7/15/26	1200
LCN			<i>[Signature]</i>	7/15/26	1712

↑ mm/dd/yyyy ↑ 24hr ↑ clock

↑ mm/dd/yyyy ↑ 24hr ↑ clock

Therm ID: 121
 Temp Received: 0.5 °C
 Correction Factor: 0.0 °C
 Corrected Temp: 0.5 °C

on ice; sealed

Type: B=Blank|C=Composite|G=Grab or Discrete|X=Other

Matrix: G=Gas|GW=Groundwater|O=Oil|P=Product|S=Soil|SD=Sediment|SO=Solid|T=Tissue|WP=Wipe|WW=Wastewater|X=Other

Unless otherwise agreed in writing, these services are provided pursuant to the terms and conditions as set forth at ontarris.co
 is expressly limited to these terms and conditions

Standard ☒ Same-Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day ☐

All TATs Subject to Approval by Onterris Laboratories, LLC

Additional Requests

SCS-W 26G1507
 Bristol LFG-EW Monthly Monitor

Recd: 07/15/2026 Due: 07/29/2026 order

•Onterris

Sample Preservation Log

Order ID 2661507

Date Performed: 7 17 26

Analyst Performing Check: MLG

Sample ID	Container ID	Metals			Cyanide			Sulfide			Ammonia			TKN			Phos, Tot			NO3+NO2			DRO			Pesticide (8081/608/508) PCB DW only			SVOC (525/8270/625)			CrVI * **		Pest/PCB (508) / SVOC(525)			CO D			phenolics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	Res. Cl		final + or -	Res. Cl		final + or -	Received pH	Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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NaOH ID: _____ HNO₃ ID: 6F05100 CrVI preserved date/time: _____ Analyst Initials: _____
 H₂SO₄ ID: 6G02805 Na₂S₂O₃ ID: _____ *pH must be adjusted between 9.3 - 9.7
 HCL ID: _____ Na₂SO₃ ID: _____ Ammonia Buffer Sol'n ID: _____
 5N NaOH ID: _____

Metals were received with pH = 7
 HNO₃ was added at 1245 on July 17,
 2026 by MLG in the Log-In room to bring
 pH = <2.

•Onterris

Sample Preservation Log

Order ID 2661507

Date Performed: 7 17 26

Analyst Performing Check: MLG

Sample ID	Container ID	Metals		Cyanide		Sulfide		Ammonia		TKN		Phos, Tot		NO3+NO2		DRO		Pesticide (8081/608/508) PCB DW only			SVOC (525/8270/625)			CrVI * **		Pest/PCB (508) / SVOC(525)		COD		phenolics			
		pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	Res. Cl		final + or -	Res. Cl		final + or -	Received pH	Final pH	pH as Received		Final pH	pH as Received		Final pH
		< 2	Other		> 12	Other		> 9	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other				+	-		+	-	
04	A		7	12																													
04	D								7	12	7	12			7	12													7	12			
04	E								7	12	7	12			7	12													7	12			
04	F																														7	12	
04	G																																
05	A		7	12																													
05	D								7	12	7	12			7	12													7	12			
05	F																														7	12	
05	G																																
06	A		7	12																													
06	D								7	12	7	12			7	12													7	12			
06	E								7	12	7	12			7	12													7	12			
06	F																														7	12	
06	G																																
07	A		7	12																													

NaOH ID: _____ HNO₃ ID: 6F09100

H₂SO₄ ID: 6602805

HCL ID: _____ Na₂SO₃ ID: _____

CrVI preserved date/time: _____ Analyst Initials: _____

* pH must be adjusted between 9.3 - 9.7

Ammonia Buffer Sol'n ID: _____

5N NaOH ID: _____

Metals were received with pH = 7
HNO₃ was added at 1245 on July 17,
2026 by MLG in the Log-In room to bring
pH = <2.

Order ID 2661907

Date Performed: 7 17 26

Analyst Performing Check: MLB

NaOH ID: _____	HNO ₃ ID: <u>6F05100</u>	CrVI preserved date/time: _____	Analyst Initials: _____
H ₂ SO ₄ ID: <u>6602805</u>	Na ₂ S ₂ O ₃ ID: _____	* pH must be adjusted between 9.3 - 9.7	
HCL ID: _____	Na ₂ SO ₃ ID: _____	Ammonia Buffer Sol'n ID: _____	
		5N NaOH ID: _____	

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Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Laboratory Order ID: 26G1507

Sample Conditions Checklist

Samples Received at:	0.50°C
How were samples received?	Logistics Courier
Were Custody Seals used?	Yes
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	Yes
Are all samples received appropriately preserved? Metals (except Hg, B) do not require field preservation, but lab preservation may delay analysis. Field parameters performed by the lab are always received past holding time and will be noted as such.	No

Work Order Comments

Cyanide was removed as no containers were received. Andrew Bruner confirmed with Jennifer Robb, via email, that cyanide was not needed. KEA 7/23/26 8:53

Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: Bristol LFG - EW Monthly
Submitted To: Jennifer Robb

Date Issued: 7/29/2026 5:49:17PM

Work Order: 26G1507

Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ	
Parameter	Monitoring Event	Concentration																												
Biological Oxygen Demand (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	15700	---	5860	---	---	5140	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	December-2022	---	6440	---	12500	---	---	---	11400	---	9240	3330	---	---	---	---	---	8360	6770	---	---	---	---	---	---	---	---	0.2	2	
	January-2023	---	9920	---	---	---	---	---	---	999	28100	---	---	---	---	7060	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7230	---	---	---	---	---	---	---	---	0.2	2	
	March-2023	---	---	---	---	---	---	---	---	1570	9190	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	April-2023	---	---	---	---	---	---	---	---	8430	---	2860	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	May-2023	---	7350	---	---	---	---	---	---	11900	35300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	June-2023	---	---	---	---	---	---	---	---	---	20000	---	27400	---	23100	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	July-2023	---	6820	---	---	---	---	---	32900	---	---	---	---	---	---	---	---	---	---	---	330	---	---	---	---	---	31800	937	0.2	2
	August-2023	---	---	---	---	---	>33045	---	>33225	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	>32805	506	0.2	2	
	September-2023	---	---	---	40185.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	659	---	---	---	---	---	---	---	0.2	2	
	October-2023	---	---	---	---	---	---	34600	---	---	---	---	---	---	---	---	---	---	---	690	---	---	37000	---	---	---	---	0.2	2	
	November-2023	---	1910	---	30400	27500	---	32015	---	---	29600	---	---	3640	---	---	---	---	---	480	---	---	32135	---	---	---	21500	0.2	2	
	December-2023	---	---	---	>44105	---	---	---	---	---	---	---	---	---	---	---	---	---	13700	681	---	---	---	---	---	---	---	0.2	2	
	January-2024	---	---	26000	---	---	---	---	---	---	17100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14000	0.2	2	
	February-2024	---	---	23200	---	26200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21400	---	34300	---	---	---	0.2	2	
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40600	---	---	7680	0.2	2	
	April-2024	---	---	---	41142	---	---	---	---	---	---	---	1210	---	---	---	---	---	19600	386	---	---	---	---	---	---	---	0.2	2	
	May-2024	---	---	---	---	---	---	---	---	---	25600	---	---	---	---	---	---	---	---	448	---	22200	33400	---	---	---	7750	0.2	2	
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	421	---	24400	---	---	---	---	16200	0.2	2	
	July-2024	---	---	---	---	---	---	---	---	---	25800	4750	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	August-2024	---	---	---	---	---	31000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20800	---	---	---	33400	---	0.2	2	
	September-2024	---	---	---	ND	---	36100	---	---	---	---	---	---	---	---	---	---	---	27400	---	---	---	---	---	---	---	---	0.2	2	
	October-2024	180	6680	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36100	---	---	---	---	---	---	0.2	2	
	November-2024	4760	7360	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	December-2024	---	---	---	42600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20300	---	0.2	2	
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	22900	---	---	---	---	---	0.2	2	
	February-2025	---	4420	---	---	---	---	---	---	---	---	---	43418.4	---	---	---	---	---	---	---	---	16200	---	---	---	---	---	0.2	2	
	March-2025	---	3490	---	---	---	---	---	---	---	20400	---	---	---	---	---	---	---	22000	---	---	---	---	---	---	---	---	0.2	2	
	April-2025	---	---	---	---	---	---	---	---	---	33900	---	---	---	---	---	---	---	24600	---	---	---	---	---	---	---	---	0.2	2	
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42196.44	42316.44	---	---	0.2	2	
	June-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	230	---	---	---	---	---	---	---	0.2	2	
	July-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12000	---	0.2	2	
	August-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38599.6	---	5650	0.2	2	
	September-2025	---	8200	---	---	---	---	---	---	---	---	33700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	October-2025	---	6540	---	---	---	---	---	---	---	---	---	---	---	---	8280	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	November-2025	---	---	---	---	---	---	---	---	---	24600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	December-2025	---	---	---	---	---	---	---	---	---	---	---	18800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	February-2026	---	1250	---	---	---	---	---	---	---	---	---	30900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2	
	April-2026	---	---	---	---	---	---	42403.8	---	---	27000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15800	---	0.2	2	
	July-2026	---	---	---	---	---	28600	35157	---	---	22400	---	---	---	---	---	34857	35157	27300	---	---	---	---	---	---	9720	1050	0.2	2	

Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ		
Parameter	Monitoring Event	Concentration																													
Chemical Oxygen Demand (mg/L) (continued)	August-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	630	1000	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6300	10000	
	September-2025	---	9670	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1260	2000	
		---	---	---	---	---	---	---	---	---	---	55500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6300	10000
	October-2025	---	14200	---	---	---	---	---	---	---	---	---	---	---	---	---	14700	---	---	---	---	---	---	---	---	---	---	---	---	1260	2000
		---	---	---	---	---	---	---	---	---	---	44900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3150	5000
	November-2025	---	---	---	---	---	---	---	---	---	---	---	---	41800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6300	10000
		December-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	February-2026	---	3820	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	630	1000
		---	---	---	---	---	---	---	---	---	---	---	---	53700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6300	10000
	April-2026	---	---	---	---	---	---	---	---	---	---	46900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	87900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	July-2026	---	---	---	---	---	---	---	---	---	---	36700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	51100	64000	---	---	---	---	---	---	---	---	65000	63700	47100	---	---	---	---	---	---	---	---	---	---	---

Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ			
Parameter	Monitoring Event	Concentration																														
Nitrate as N (mg/L)	December-2022	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	0.2	0.2		
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	0.6			
		---	ND	---	ND	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.1	5.1		
	January-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	1.5	5.5		
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.35	1.35		
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	1.1	1.1		
		---	3.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.1	2.1		
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.2	2.2		
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.35	1.35		
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.04	5.1		
	April-2023	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.6	2.6		
	May-2023	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.1	5.1		
	June-2023	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.2	5.2	
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	1.1	5.1	
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.2	5.2	
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.355	---	---	---	---	---	---	---	---	0.15	0.35	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.55	0.75	
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	3		
		---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	1.5	5.5	
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.15	0.35	
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	1.5	3.5	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	1.1	
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.7	1

Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ		
Parameter	Monitoring Event	Concentration																													
Nitrate as N (mg/L) (continued)	August-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.255	1	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	1.45	2
	September-2025	---	ND	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.102	0.4	
	October-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.1	0.1	
	November-2025	---	---	---	---	---	---	---	---	---	0.663	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.128	0.5	
	December-2025	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.128	0.5	
	February-2026	---	1.08	---	---	---	---	---	---	---	---	---	0.45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.051	0.2	
	April-2026	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.128	0.5
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.29	0.4
		---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.28	5
	July-2026	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	0.145	0.2
		---	---	---	---	---	---	ND	ND	---	---	ND	---	---	---	---	---	---	ND	ND	ND	---	---	---	---	---	---	---	---	0.145	0.5

Historical LFG-EW Leachate Monitoring Results Summary

[illegible]

[illegible]

Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ	
Parameter	Monitoring Event	Concentration																												
Anthracene (continued)	July-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	200	400	
	August-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	100	200	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400	800	
	September-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	200	
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400	800	
	October-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400	
	November-2025	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400	
	December-2025	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	200
	February-2026	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400	800
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400
	April-2026	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	200	400
		---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400000	800000	
	July-2026	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	200
		---	---	---	---	---	---	ND	ND	---	---	ND	---	---	---	---	---	ND	ND	ND	---	---	---	---	---	---	---	---	1000	2000

Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ		
Parameter	Monitoring Event	Concentration																													
TOTAL METALS (mg/L)																															
Arsenic	November-2022	---	---	---	---	---	---	---	---	---	0.863	---	0.464	---	---	1.3	---	---	---	---	---	---	---	---	---	---	---	0.02	0.04		
	December-2022	---	1.02	---	0.406	---	---	---	0.174	---	1.69	0.49	---	---	---	---	---	0.159	0.574	---	---	---	---	---	---	---	---	0.02	0.04		
	January-2023	---	0.285	---	---	---	---	---	---	0.596	0.225	---	---	---	---	0.846	---	---	---	---	---	---	---	---	---	---	---	0.01	0.02		
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.29	---	---	---	---	---	---	---	---	0.005	0.01		
	March-2023	---	---	---	---	---	---	---	---	1.07	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.02		
	April-2023	---	---	---	---	---	---	---	---	---	---	0.11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0005	0.001		
	May-2023	---	0.26	---	---	---	---	---	---	0.3	0.27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005		
	June-2023	---	---	---	---	---	---	---	---	0.26	---	---	0.5	---	0.14	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005		
	July-2023	---	0.23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.24	---	---	---	---	---	0.19	0.06	0.0005	0.001		
	August-2023	---	---	---	---	---	---	---	0.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005		
	September-2023	---	---	---	0.42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	---	---	---	---	---	---	---	0.005	0.01		
	October-2023	---	---	---	---	---	---	0.36	---	---	---	---	---	---	---	---	---	---	---	0.24	---	---	0.31	---	---	---	---	0.0005	0.001		
	November-2023	---	0.23	---	0.33	0.53	---	0.43	---	---	0.35	---	---	0.78	---	---	---	---	---	0.34	---	---	0.27	---	---	0.2	0.003	0.003			
	December-2023	---	---	---	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	0.26	---	---	---	---	---	---	---	---	0.0025	0.005		
	January-2024	---	---	0.47	---	---	---	---	---	0.23	---	---	---	---	---	---	---	---	---	0.24	---	---	---	---	---	---	---	0.001	0.002		
	February-2024	---	---	0.68	---	0.42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005			
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.12	0.001	0.002		
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	0.49	---	---	---	---	---	0.18	---	---	---	---	---	---	---	0.0005	0.001		
	May-2024	---	---	---	0.31	---	---	---	---	---	---	---	---	---	---	---	---	---	0.33	---	---	---	---	---	---	---	---	0.004	0.004		
	June-2024	---	---	---	---	---	---	---	---	0.33	---	---	---	---	---	---	---	---	---	0.2	---	0.73	0.22	---	---	---	0.22	0.005	0.01		
	July-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.19	---	0.49	---	---	---	---	0.14	0.005	0.01		
	August-2024	---	---	---	---	---	0.18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.49	---	---	0.13	---	0.005	0.01		
	September-2024	---	---	---	0.27	---	0.15	---	---	---	---	---	---	---	---	---	---	---	0.19	---	---	---	---	---	---	---	---	0.005	0.01		
	October-2024	0.1	0.26	---	0.24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.18	---	---	---	---	---	---	0.005	0.01		
	November-2024	0.18	0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.01		
	December-2024	---	---	---	0.28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.09	0.005	0.01			
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.88	---	---	---	---	0.01	0.05		
	February-2025	---	0.17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.73	---	---	---	---	0.005	0.01		
	March-2025	---	0.158	---	---	---	---	---	---	---	---	0.344	0.774 J	---	---	---	---	---	0.254	---	---	---	---	---	---	---	---	0.465	1		
	April-2025	---	---	---	---	---	---	---	---	---	---	0.246	---	---	---	---	---	---	0.217	---	---	---	---	---	---	---	---	0.01	0.02		
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.15	0.2	---	0.0025	0.005		
	June-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.322	---	---	---	---	---	---	---	0.003	0.02		
	July-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.19	0.0018	0.02		
	August-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0018	0.02		
	September-2025	---	0.289	---	---	---	---	---	---	---	---	0.166	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.02	
	October-2025	---	0.0128 J	---	---	---	---	---	---	---	---	---	---	---	---	0.134	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.02	
	November-2025	---	---	---	---	---	---	---	---	0.247	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.008	0.08		
	December-2025	---	---	---	---	---	---	---	---	---	---	---	0.13 J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.02	0.2		
	February-2026	---	0.39	---	---	---	---	---	---	---	---	---	0.407	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.1		
	April-2026	---	---	---	---	---	---	2.52	---	0.29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.138	---	0.008	0.08		
	July-2026	---	---	---	---	---	0.15	0.11	---	---	0.26	---	---	---	---	---	0.15	0.16	0.31	---	---	---	---	---	---	0.076	0.053	0.0015	0.004		

Historical LFG-EW Leachate Monitoring Results Summary

Well ID	EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ		
Parameter	Monitoring Event	Concentration																												
Mercury	November-2022	---	---	---	---	---	---	---	---	---	---	0.00169	---	---	0.00053	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004		
	December-2022	---	0.00051	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0008	0.0008	
		---	---	---	---	---	---	---	0.00118	---	ND	0.00588	---	---	---	---	---	0.0048	ND	---	---	---	---	---	---	---	---	0.0004	0.0004	
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0008	0.0008	
	January-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.004	
		---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004	
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.004	
	March-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004	
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002	
	April-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004
		---	---	---	---	---	---	---	---	---	---	0.00128	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002	
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004	
	June-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002	
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.004	
		---	0.000306	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002	
	August-2023	---	---	---	---	---	---	---	0.0107	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.001	
		---	---	---	---	---	0.00312	---	0.00397	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.001	
	September-2023	---	---	---	0.00503	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.002	
	October-2023	---	---	---	---	---	---	0.00165	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004	
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000002	0.0000002	
	November-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000004	0.0000004	
		---	---	---	0.00576	0.00606	---	0.00578	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.000004	0.000004	
	December-2023	---	---	---	0.00484	---	---	---																						

[illegible]

Historical LFG-EW Leachate Monitoring Results Summary

Well ID	EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ		
Parameter	Monitoring Event	Concentration																												
Propionic Acid	November-2022	---	---	---	---	---	---	---	---	---	---	620	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11	100	
		---	---	---	---	---	---	---	---	1600	---	---	---	---	73 J	---	---	---	---	---	---	---	---	---	---	---	---	27	250	
	December-2022	---	640	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	27	250	
	January-2023	---	ND	---	---	---	---	---	ND	2000	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	500	
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	500	
	March-2023	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	
	April-2023	---	---	---	---	---	---	---	600	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	340	500	
	May-2023	---	520	---	---	---	---	---	---	800	1400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	340	500	
	June-2023	---	---	---	---	---	---	---	---	---	2900	---	2000	---	2900	---	---	---	---	---	---	---	---	---	---	---	---	680	1000	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	140	200
	July-2023	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	340	500
		---	---	---	---	---	---	---	3100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	680	1000		
	August-2023	---	---	---	---	---	1200	---	2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1900	ND	---	500	
	September-2023	---	---	---	1800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	340	500	
	October-2023	---	---	---	---	---	---	1300	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	2000	---	---	---	---	---	340	500
	November-2023	---	ND	---	---	2170	---	2310	---	---	2080	---	---	387	---	---	---	---	---	ND	---	---	3350	---	---	---	1420	250	500	
		---	---	---	2580	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000	
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	996	---	---	---	---	---	---	---	---	---	100	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250	
	January-2024	---	---	---	2280	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	
	February-2024	---	---	1680	---	---	---	---	---	---	1970	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1030	---	250	
		---	---	1210	---	1510	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250	
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1980	---	2900	---	---	---	---	500	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	
		---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	100	
	May-2024	---	---	---	2300	---	---	---	---	---	---	---	---	---	---	---	---	---	1150	---	---	---	---	---	---	---	---	---	250	
	June-2024	---	---	---	---	---	---	---	---	---	1730	---	---	---	---	---	---	---	---	ND	---	1640	2770	---	---	---	647	---	250	
	July-2024	---	---	---	---	---	---	---	---	---	2500	2470	---	---	---	---	---	---	---	ND	---	1870	---	---	---	---	1400	---	100	
	August-2024	---	---	---	---	---	1320	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1920	---	---	---	2040	---	---	500	
	September-2024	---	---	---	2640	---	1690	---	---	---	---	---	---	---	---	---	---	---	1300	---	---	---	---	---	---	---	---	---	250	
		ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	
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Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ			
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	Well ID	EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ		
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Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ		
Parameter	Monitoring Event	Concentration																													
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Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ			
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	April-2023	---	---	---	---	---	---	---	---	---	8290	---	7560	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500	
		---	10700	---	---	---	---	---	---	---	11700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	350	500	
	May-2023	---	---	---	---	---	---	---	---	---	---	29600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500	
		---	---	---	---	---	---	---	---	---	---	29600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500	
	June-2023	---	---	---	---	---	---	---	---	---	---	---	---	61800	---	50800	---	---	---	---	---	---	---	---	---	---	---	---	---	3500	5000	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	140	200	
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1180	---	---	---	---	---	---	---	---	700	1000	
		---	9780	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7000	10000	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20900	700
	August-2023	---	---	---	---	---	---	---	---	18700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	---	---	72500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3500	5000
	September																															

Historical LFG-EW Leachate Monitoring Results Summary

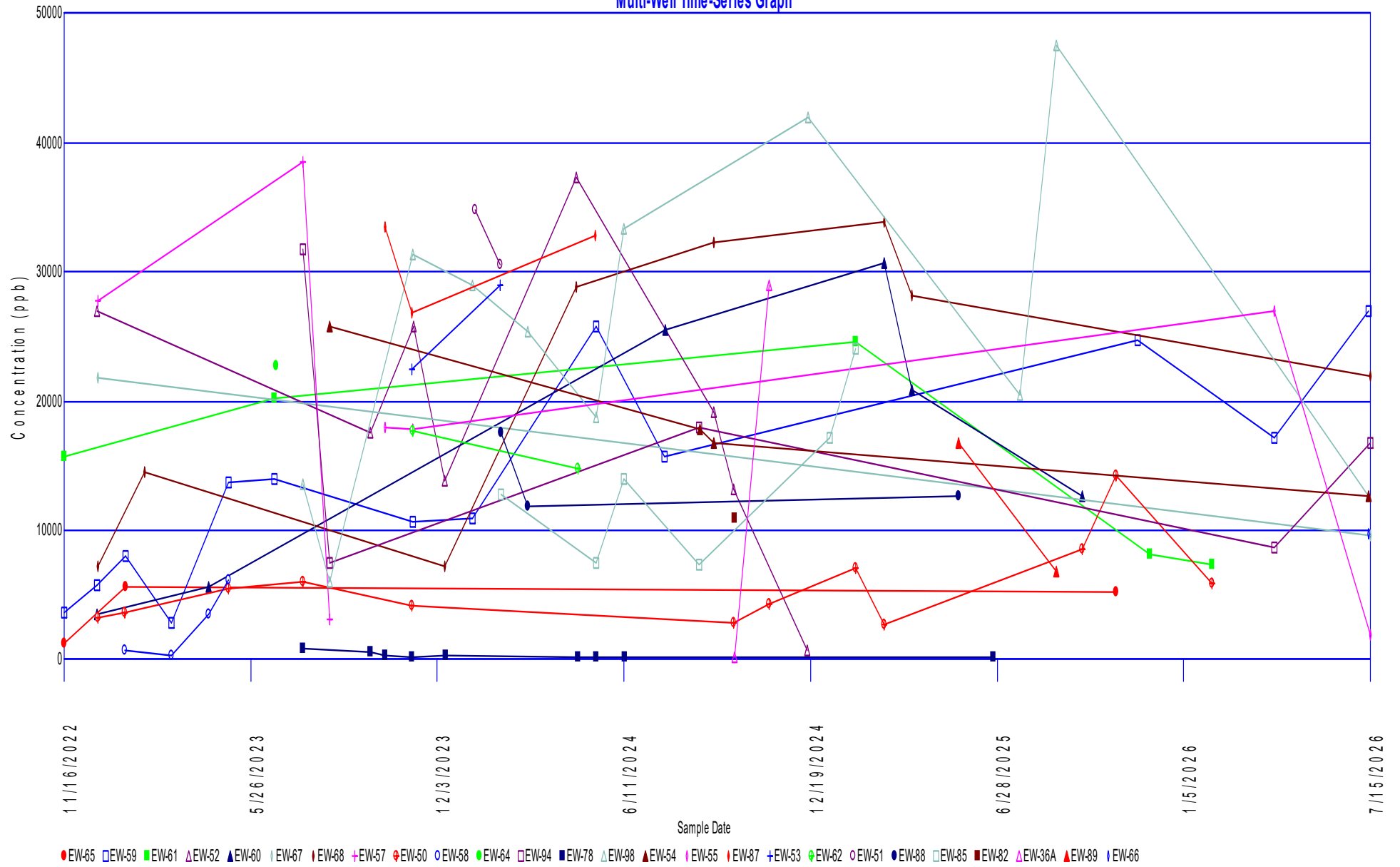
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Parameter	Monitoring Event	Concentration																											
Ethylbenzene	December-2022	---	67.3	---	172	---	---	287	---	ND	48.5	---	---	---	---	108	27.4	---	---	---	---	---	---	---	---	---	---	4	10
	November-2022	---	---	---	---	---	---	---	---	ND	---	194	---	---	16.2	---	---	---	---	---	---	---	---	---	---	---	4	10	
	January-2023	---	65.1	---	---	---	---	---	ND	93.9	---	---	---	---	20.8	---	---	---	---	---	---	---	---	---	---	---	4	10	
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	151	---	---	---	---	---	---	---	---	---	4	10	
	March-2023	---	---	---	---	---	---	---	131	71.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	10	
	April-2023	---	---	---	---	---	---	---	186	---	43.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	10	
	May-2023	---	124	---	---	---	---	---	276	144	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	50	
	June-2023	---	---	---	---	---	---	---	---	104	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20	
		---	---	---	---	---	---	---	---	---	---	98	---	116	---	---	---	---	---	---	---	---	---	---	---	---	20	50	
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	666	4	10	
		---	128	---	---	---	---	---	---	---	---	---	---	---	---	---	---	82	---	---	---	---	---	---	---	---	8	20	
		---	---	---	---	---	---	224	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	87.5	---	20	50	
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16.8 J	8	20	
		---	---	---	---	---	80	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	20	50	
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		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250	
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	January-2024																												

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-66	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ	
Parameter	Monitoring Event	Concentration																												
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	December-2022	---	122	---	175	---	---	---	195	---	ND	113	---	---	---	---	---	113	48.3	---	---	---	---	---	---	---	---	5	10	
	January-2023	---	122	---	---	---	---	---	---	8 J	139	---	---	---	---	35.3	---	---	---	---	---	---	---	---	---	---	---	5	10	
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	224	---	---	---	---	---	---	---	---	5	10	
	March-2023	---	---	---	---	---	---	---	---	182	98.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	10	
	April-2023	---	---	---	---	---	---	---	---	303	---	94.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	10	
	May-2023	---	258	---	---	---	---	---	---	371	239	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	25	50	
	June-2023	---	---	---	---	---	---	---	---	---	165	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	20	
		---	---	---	---	---	---	---	---	---	---	---	67	---	212	---	---	---	---	---	---	---	---	---	---	---	---	25	50	
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	965	5	10	
		---	248	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	107	---	---	---	---	---	---	---	10	20	
		---	---	---	---	---	---	---	218	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	118	---	25	50	
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	20	
		---	---	---	---	---	105	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	25	50	
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.6	---	---	---	---	---	---	---	10	20	
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	125	250	
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	59.2	---	---	---	---	---	---	---	---	2.5	5
		---	---	---	---	---	---	37 J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	235	---	---	---	---	---	25	50
	November-2023	---	47.3	---	---	---	---	---	---	---	---	---	---	---	50.4	---	---	---	---	---	---	---	---	---	---	---	---	---	2.5	5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	48.7	---	---	---	---	---	---	---	---	5	10
		---	---	---	---	62.5	---	51.5	---	---	114	---	---	---	---	---	---	---	---	---	---	---	167	---	---	---	114	---	25	50
	December-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	125	250
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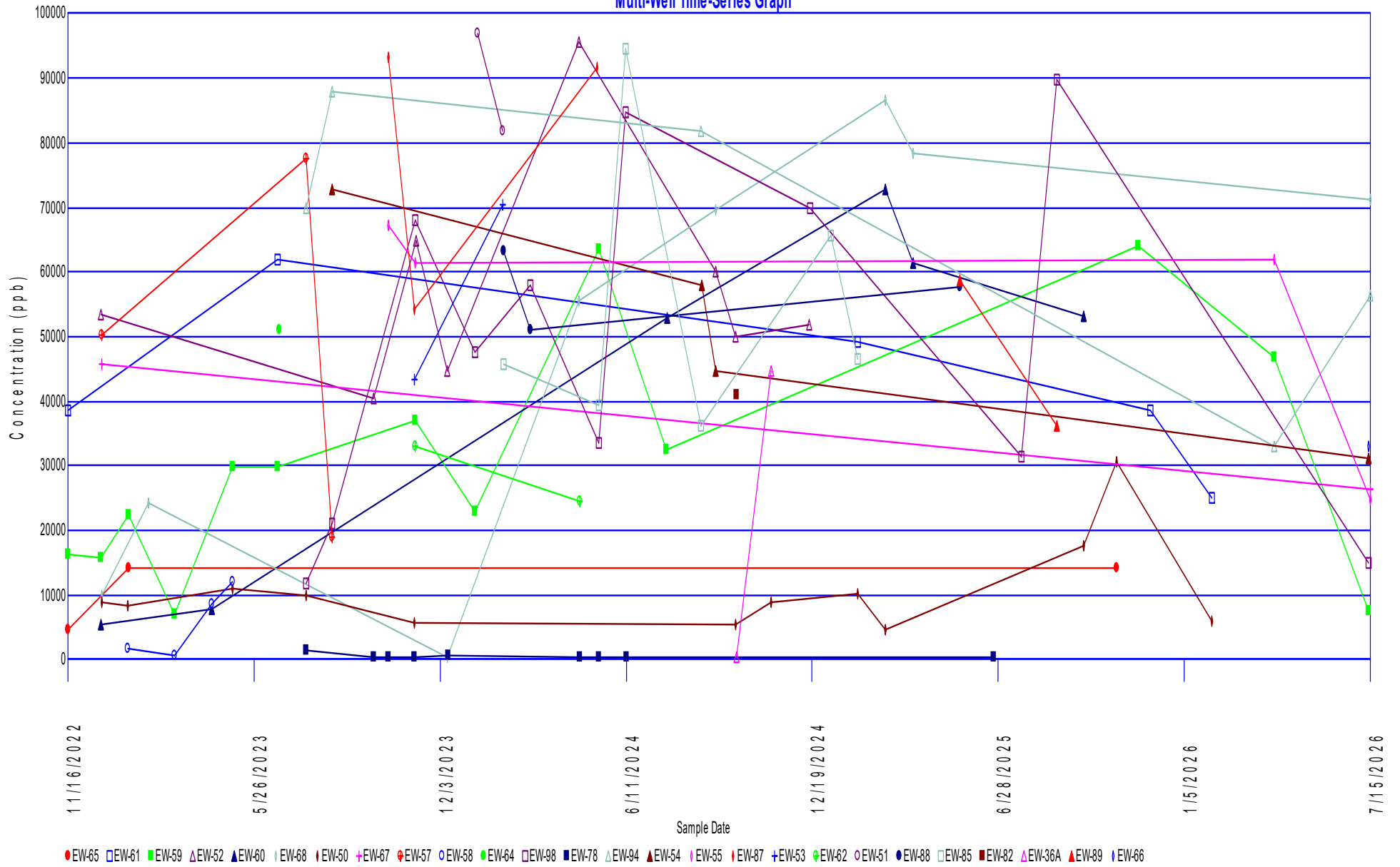
[illegible]

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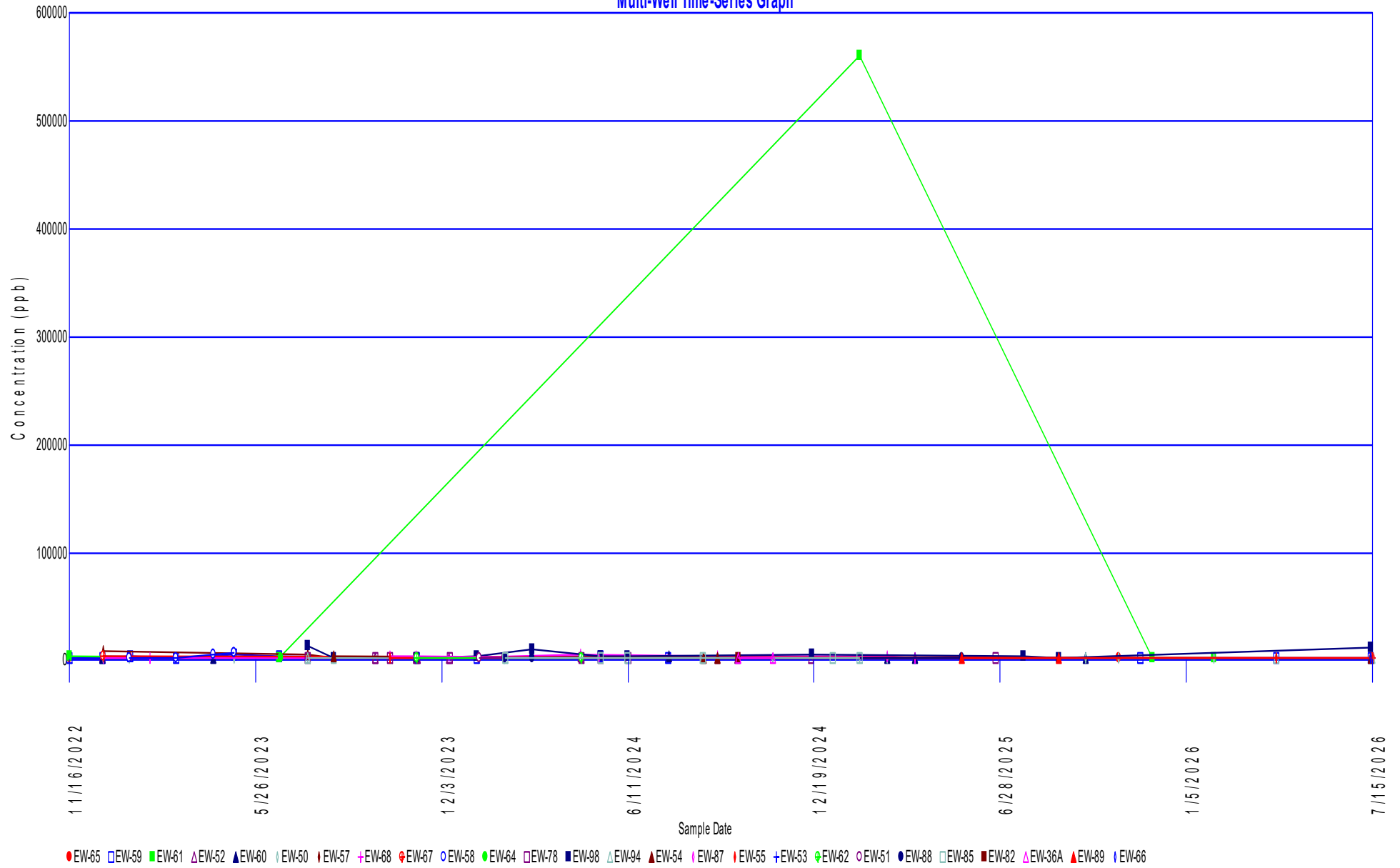
2-Butanone Multi-Well Time-Series Graph



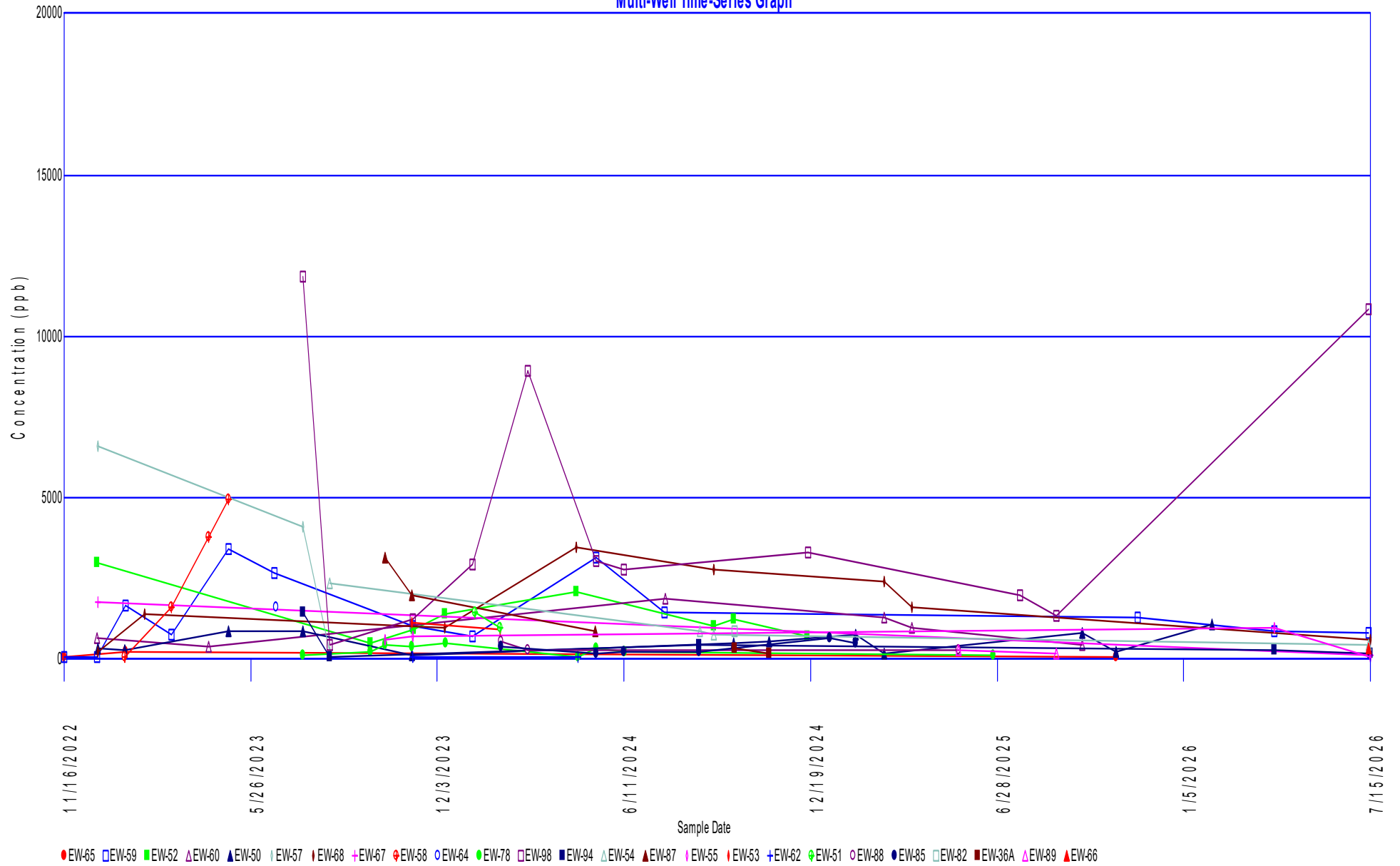
Acetone Multi-Well Time-Series Graph



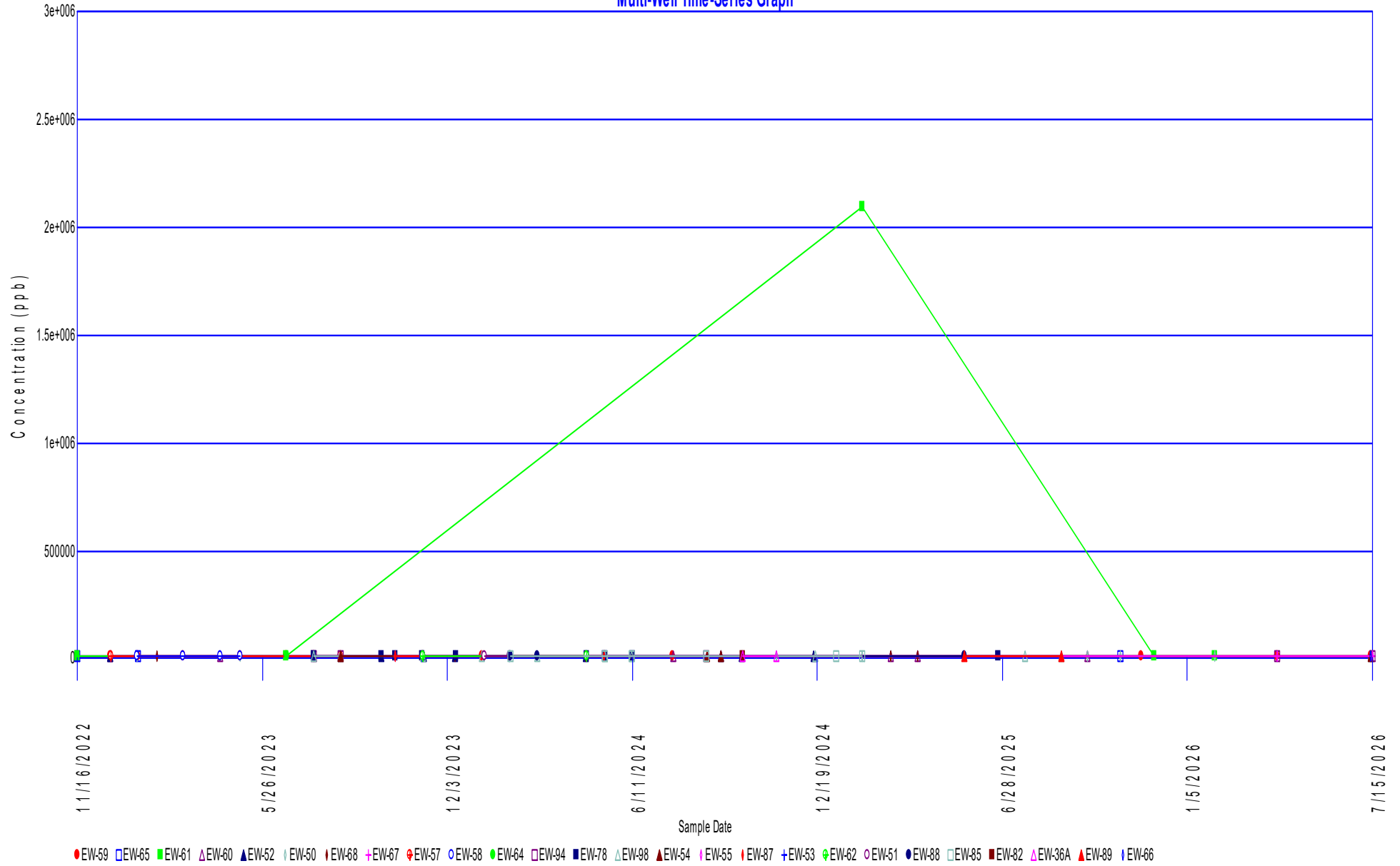
Benzene Multi-Well Time-Series Graph



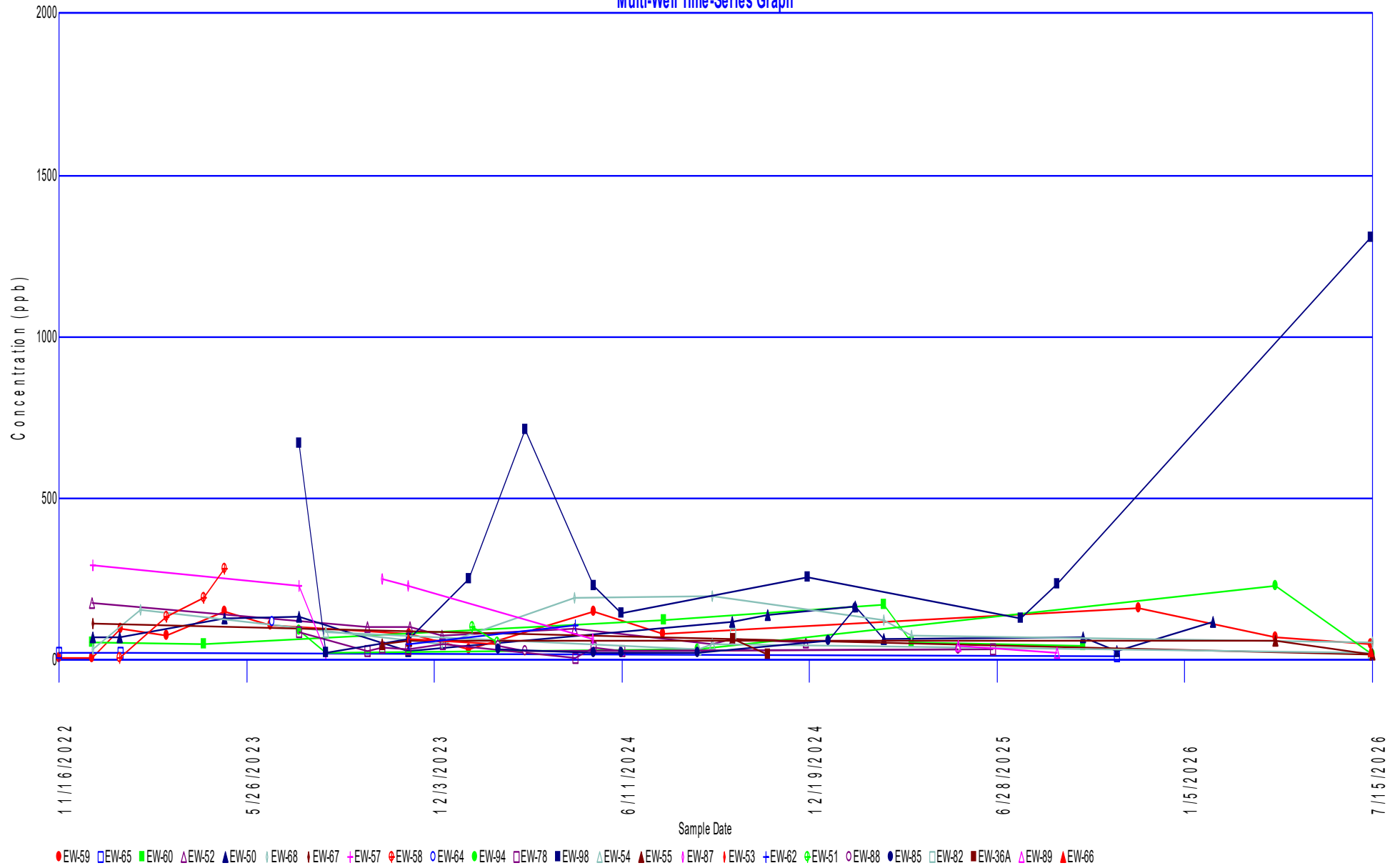
Benzene Multi-Well Time-Series Graph



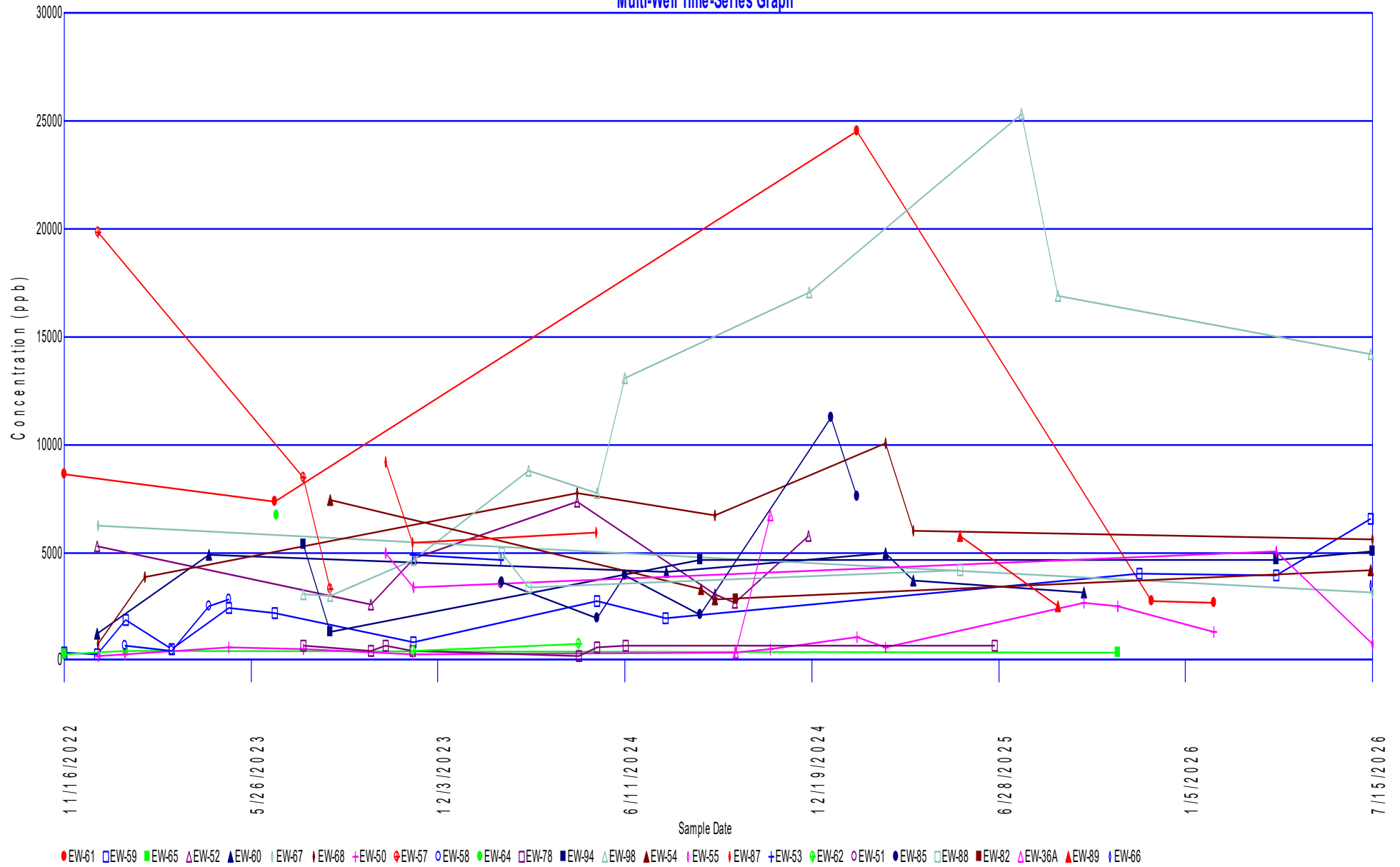
Ethylbenzene Multi-Well Time-Series Graph



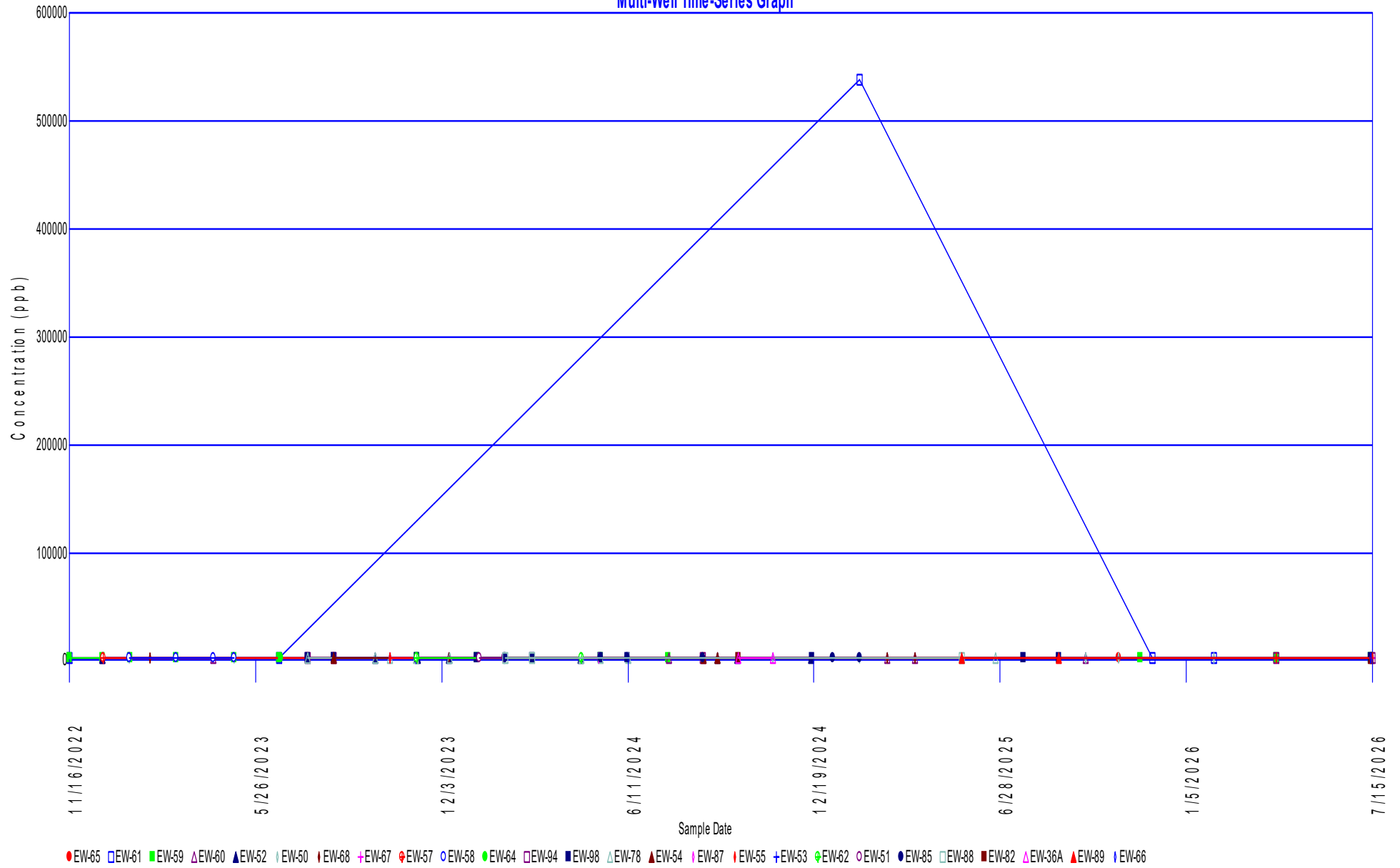
Ethylbenzene Multi-Well Time-Series Graph



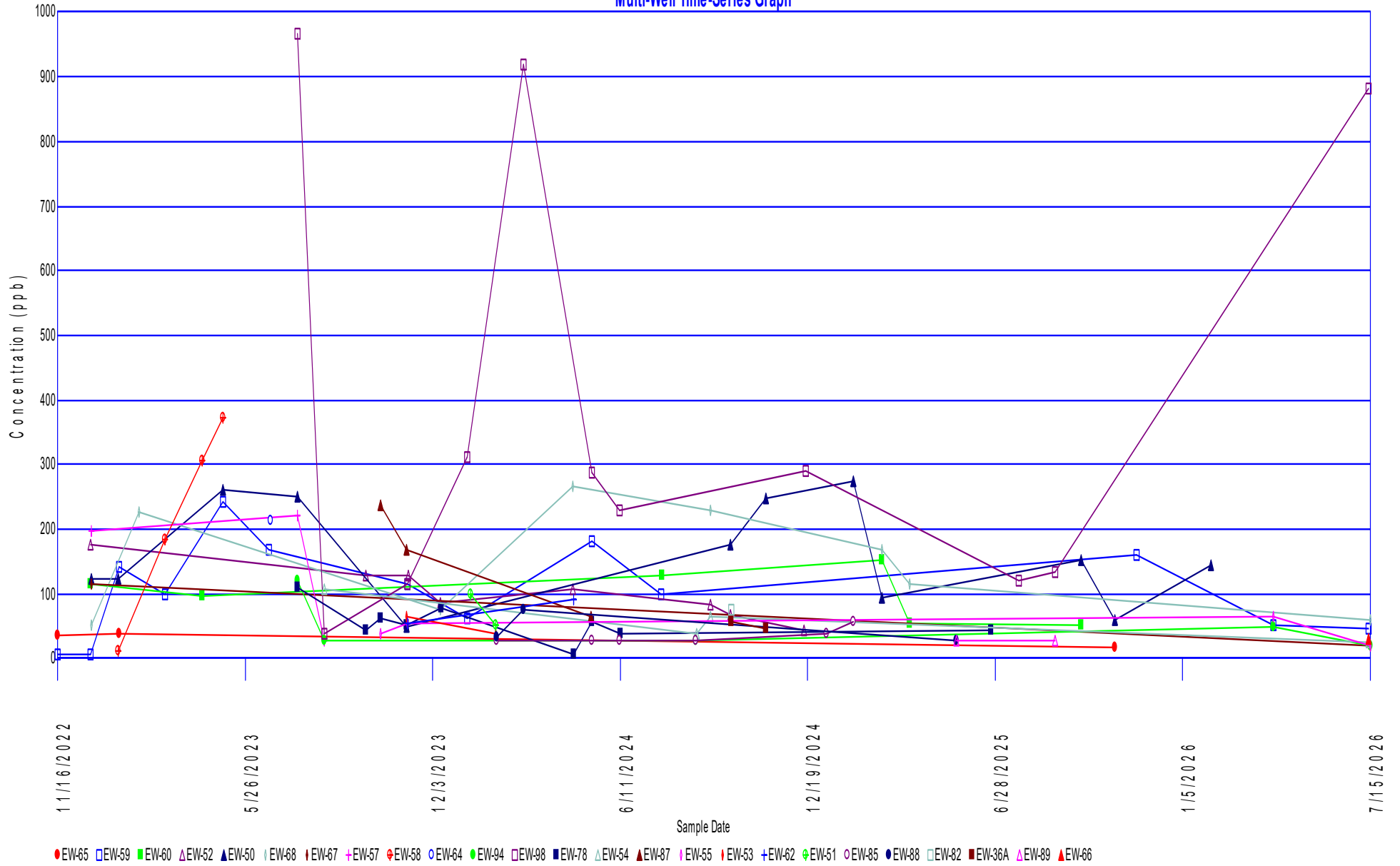
Tetrahydrofuran Multi-Well Time-Series Graph



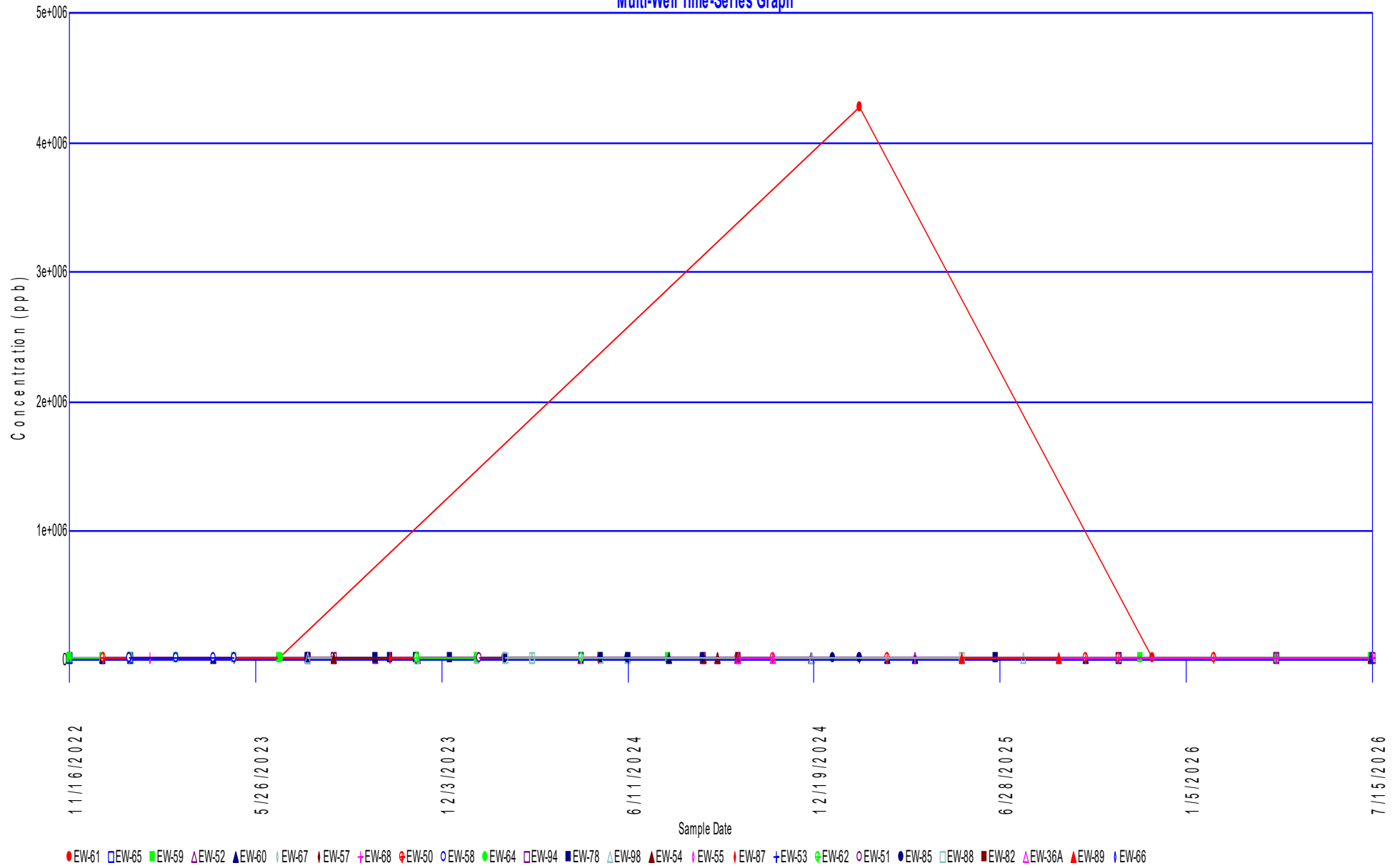
Toluene Multi-Well Time-Series Graph



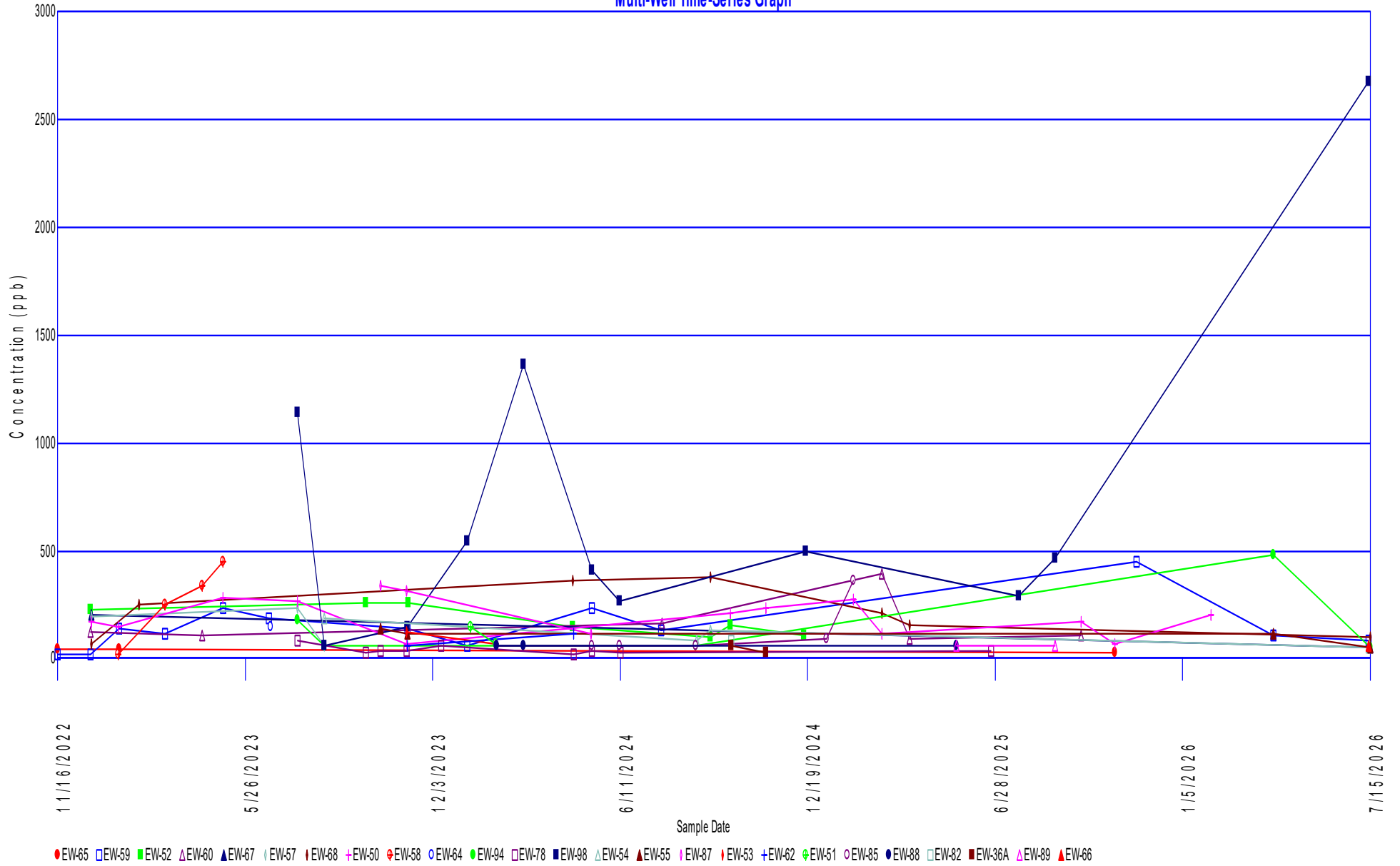
Toluene Multi-Well Time-Series Graph



Xylenes Multi-Well Time-Series Graph



Xylenes Multi-Well Time-Series Graph



Appendix G

LFG Dewatering Pump Stroke Counter Data Analysis

Stroke Counter Data Analysis

During the monthly liquid depth measurement event and during LFG monitoring, SCS collected stroke counter data from the pumps installed in the GCCS extraction wells. These stroke counts were collected from 21 wells from July 1, to August 1, 2026. The recorded stroke count data from each well during March is included in **Table G-1**.

Based on the number of strokes in each well, SCS can estimate the number of gallons of liquid pumped from each well to assess pump performance. SCS assumed that each stroke from a float-style pneumatic pump correlates to approximately 0.3 gallons of liquid removed from the well. Blackhawk piston-style pumps remove approximately 0.11 gallons per stroke.

Table G-1 Summary of Dual Extraction Well Pump Stroke Counter Data

Well	7/1/2026	8/1/2026	# of strokes between measurements	Estimated liquid removed (gallons)
EW36A			-	0
EW49	168676	170807	2,131	639
EW50	1736534	1738263	1,729	519
EW52	170746	170808	62	19
EW53			-	0
EW54	10391	124962	114,571	34,371
EW55	243240	274114	30,874	9,262
EW59	4124297	4185024	60,727	18,218
EW60	464867	464867	-	0
EW61	348635	348774	139	42
EW62	262743	268915	6,172	1,852
EW65	256270	259553	3,283	985
EW66	1260502	1368334	107,832	32,350
EW67	568201	669232	101,031	30,309
EW68	2762411	2799927	37,513	11,255
EW76			-	0
EW78	558559	651663	93,104	27,931
EW82			-	0
EW85	397294	403896	6,602	1,981
EW87	340749	340749	-	0
EW88	490472	490472	-	1
EW93	1409957	1409957	-	0
EW94	2022921	2055143	9,667	9,667
EW98	3346349	3569754	67,022	67,022
TP-4	27752	27755	3	1
Total Estimated Liquid Removal				246,421