March 2025
Monthly Compliance Report

Solid Waste Permit No. 588
Bristol Integrated Solid Waste Management Facility
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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 March 2025 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 March 7, 2025; March 11, 2025; March 17, 2025; and March 27, 2025. 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 March Surface Emissions Monitoring

Description	March 7, 2025	March 11, 2025	March 17, 2025	March 27, 2025
Number of Points Sampled	167	167	167	167
Number of Points in Serpentine Route	100	100	100	100
Number of Points at Surface Cover Penetrations	67	67	67	67
Number of Exceedances	2	2	4	6
Number of Serpentine Exceedances	0	0	0	0
Number of Pipe Penetration Exceedances	2	2	4	6

In response to the SEM results, the City and the City's operations, monitoring, and maintenance contractor, SCS Field Services O&M (SCS-FS or SCS-FS) took the following actions:

- In response to a pipe penetration exceedance at EW-49, SCS-FS increased the vacuum at EW-49. Monitoring of this well during a follow-up event did not result in an exceedance.

- In response to a pipe penetration exceedance at EW-67, SCS-FS increased the vacuum at EW-67. Monitoring of this well during a follow-up event did not result in an exceedance.

- In response to a pipe penetration exceedance at EW-85, SCS-FS increased the vacuum at EW-85. Monitoring of this well during a follow-up event did not result in an exceedance.

- Pipe penetration exceedances occurred on March 27, 2025 at EW-52, EW-53, EW-54, EW-66, EW-75, and EW-82. SCS-FS increased the vacuum at EW-54, EW-66, and EW-82. In addition, SCS-FS plans to conduct field investigations into the low available vacuum at wells EW-52, EW-53, and EW-75. These investigations are scheduled for the week of April 7, 2025.

1.1.2 Monitoring of Leachate Collection Components

SCS Field Services (SCS-FS) visited the Bristol Landfill on March 31, 2025, and performed monitoring of the leachate, witness zone, northern cleanouts, and gradient control clean-outs at the southern end of the landfill. The results of that monitoring are included in Table 2.

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	3/31/2025 8:51:36 AM	29.7	29.7	5.7	34.9	64.3	64.3	-6.04	-6.04	-16.28
Southern Cleanouts Gradient East	LC02	3/31/2025 8:53:49 AM	41.0	40.3	0.0	18.7	64.4	64.5	-6.58	-6.60	-16.54
Southern Cleanouts Leachate Center	LC03	3/31/2025 8:55:57 AM	7.5	6.3	16.9	69.2	57.8	57.7	-15.93	-15.93	-16.39
Southern Cleanouts Witness East	LC04	3/31/2025 9:00:06 AM	2.2	1.0	19.9	76.9	57.2	57.2	-8.13	-8.03	-16.46
Southern Cleanouts Leachate West	LC05	3/31/2025 9:02:12 AM	19.5	28.4	1.0	51.2	76.3	76.3	-8.81	-8.83	-16.33
Southern Cleanouts Gradient Center West	LC06	3/31/2025 9:05:34 AM	35.7	15.8	9.3	39.2	58.5	58.4	-13.90	-13.90	-16.76
Southern Cleanouts Leachate East	LC08	3/31/2025 9:08:12 AM	35.3	37.4	0.0	27.3	60.8	60.9	-6.80	-6.80	-17.00
Southern Cleanouts Gradient Center East	LC09	3/31/2025 9:10:51 AM	43.2	31.0	3.4	22.4	58.3	58.3	-16.45	-16.43	-16.95
Southern Cleanouts Leachate West	LC10	3/31/2025 9:13:22 AM	19.3	13.1	14.5	53.1	58.8	58.8	-16.31	-16.29	-16.41
Northern Cleanouts Leachate East	NC01	3/31/2025 7:23:24 AM	0.0	0.0	21.9	78.1	60.1	60.1	-2.15	-2.14	0.00
Northern Cleanouts Leachate Center	NC02	3/31/2025 7:24:41 AM	0.0	0.0	22.0	78.0	58.8	58.8	-2.17	-2.16	0.00
Northern Cleanouts Leachate West	NC03	3/31/2025 7:26:05 AM	0.0	0.0	22.0	78.0	58.5	58.3	-2.18	-2.19	0.00
Northern Cleanouts Witness East	NC04	3/31/2025 7:28:08 AM	16.7	21.3	1.2	60.7	59.8	59.9	-2.18	-2.16	0.00

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	3/31/2025 7:29:46 AM	0.2	0.5	21.7	77.6	58.5	58.6	-2.11	-2.10	0.00
Northern Cleanouts Witness West	NC06	3/31/2025 7:31:13 AM	0.0	0.1	22.0	78.0	57.6	57.7	-2.08	-2.06	0.00
Northern Cleanouts Gradient East	NC07	3/31/2025 7:32:46 AM	4.6	15.5	1.1	78.8	58.8	59.0	-1.23	-1.22	0.00
Northern Cleanouts Gradient Center East	NC08	3/31/2025 7:34:17 AM	6.9	19.5	0.0	73.6	58.0	58.0	-1.26	-1.23	0.00
Northern Cleanouts Gradient Center West	NC09	3/31/2025 7:36:03 AM	0.0	0.2	22.0	77.8	58.1	57.9	-2.26	-2.26	0.00
Northern Cleanouts Gradient West	NC10	3/31/2025 7:38:22 AM	0.2	0.7	21.0	78.0	57.2	57.4	-1.80	-1.81	0.00

1.2 EXISTING GAS EXTRACTION SYSTEM PERFORMANCE

SCS and SCS-FS have been coordinating with the City to improve the performance of the existing gas system. Specific actions taken to maintain and improve the system are detailed in the following sections of this report.

Additional actions taken by SCS-FS include the following:

- Adjustments to LFGCCS
- Maintenance of air lines and pressurized air infrastructure
- Maintenance of wellhead and other gas collection infrastructure
- Removal of liquids from landfill gas headers
- Replacement of a section of blocked forcemain
- Temporary relocation of header pipes to facilitate placement of additional soil.

1.3 REMOTE MONITORING SYSTEM

In the Fall of 2022, SCS Remote Monitoring & Control (SCS-RMC) installed 25 industrial internet of things (IIoT) temperature sensors in the landfill gas wellheads. The purpose of the sensors is to record and transmit wellhead gas temperatures via cellular connection to a database managed by SCS-RMC. Since the initial installation, some sensors have been relocated and additional sensors have been added to the network. There are currently 59 wellhead temperature sensors operating within the wellfield.

The City is providing the minimum, maximum, and average daily temperature recorded by each sensor to VDEQ on a daily basis via email. Minimum, maximum, and average daily temperatures recorded by the remote monitoring system during the month of February are included in Appendix C. In addition, SCS previously prepared semi-monthly status updates to satisfy the conditions of compliance provision no. 2 of the Environmental Protection Agency (EPA) Region III letter, Approval of Higher Operating Temperature Values for Landfill Gas Wells and Submission of Gas Treatment Alternatives at the Bristol Virginia Integrated Solid Waste Management Facility, dated August 23,

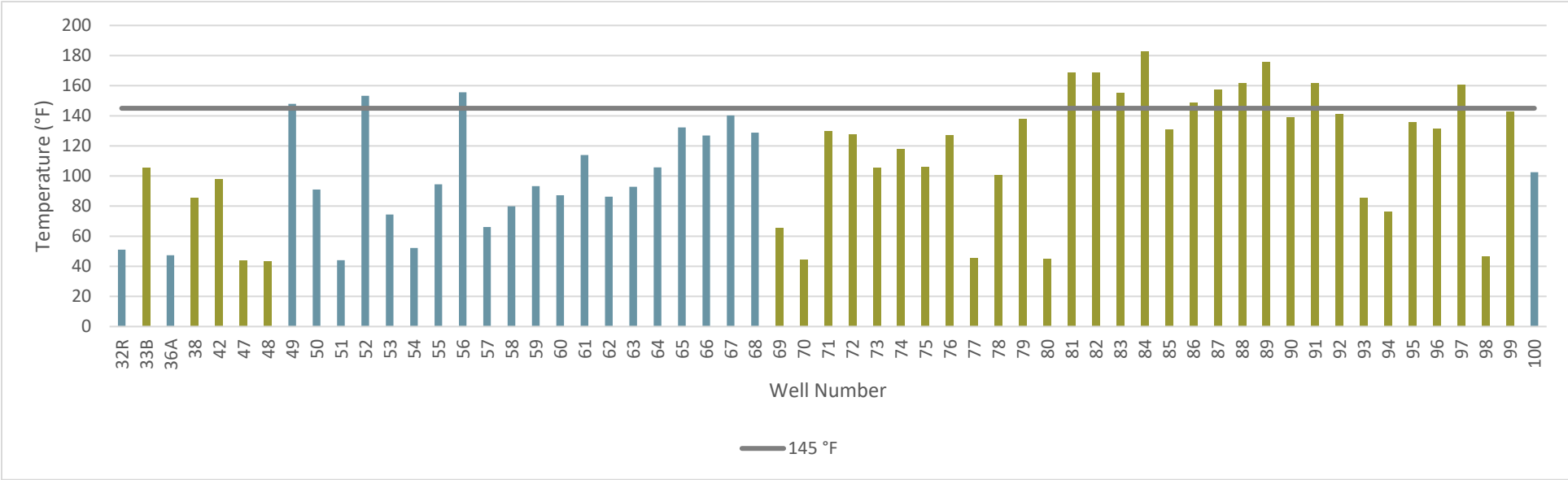
2021. On August 2, 2023, VDEQ requested that such updates be included in the monthly compliance reports. Accordingly, this section is a summary of temperature monitoring activities during the monthly monitoring period of March 2025.

1.3.1 Automated Wellhead Temperature Measurements

SCS reviewed the automated hourly temperature measurements from March 2025, and observed the following:

- **Wells with recently installed sensors:** The City contracted with SCS to increase the number of wells with automated wellhead temperature sensors in November of 2024. Many of these wells on which sensors were added were located in portions of the landfill known to exhibit higher temperatures. The higher temperatures in this region of the landfill are reflected in higher monthly average temperatures. The wells with sensors installed in November 2024 are shown in green in Figure 1, while wells with older sensors are shown in blue.

Figure 1. Monthly Average Automated Wellhead Temperatures[1]



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

1.3.2 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 3, with the ±8°F deviation thresholds as prescribed in the VDEQ approval.

Temperatures outside the ±8°F deviation lines were observed at seven wells during this reporting period: EW-58, EW-60, EW-64, EW-79, EW-82, EW-92, and EW-100. Automated temperatures at wells EW-79, EW-82, and EW-92 were greater than the manually measured temperatures, whereas automated temperatures at wells EW- 58, EW-60, and EW-64 were less than the manually measured temperatures.

Actions at Wells with Automated Temperatures greater than Manual Temperatures

Stainless steel wells have sample ports that are more difficult to use and prevent manual sampling probes from reaching fully into the gas stream. This causes the manual reading to be influenced by ambient temperatures and results in a lower temperature than the automated reading. Stainless steel wellheads are challenging to modify, which has delayed modifications to address the discrepancies noted in the January and February Monthly Compliance Reports. SCS-FS has been modifying stainless steel wellheads at several wells in February and March 2025, which resulted in a decrease from 13 wells with this type of manual/automated temperature discrepancy in January, to four wells in February, and three in March.

EW-92 is a stainless steel well that may also need a modification.

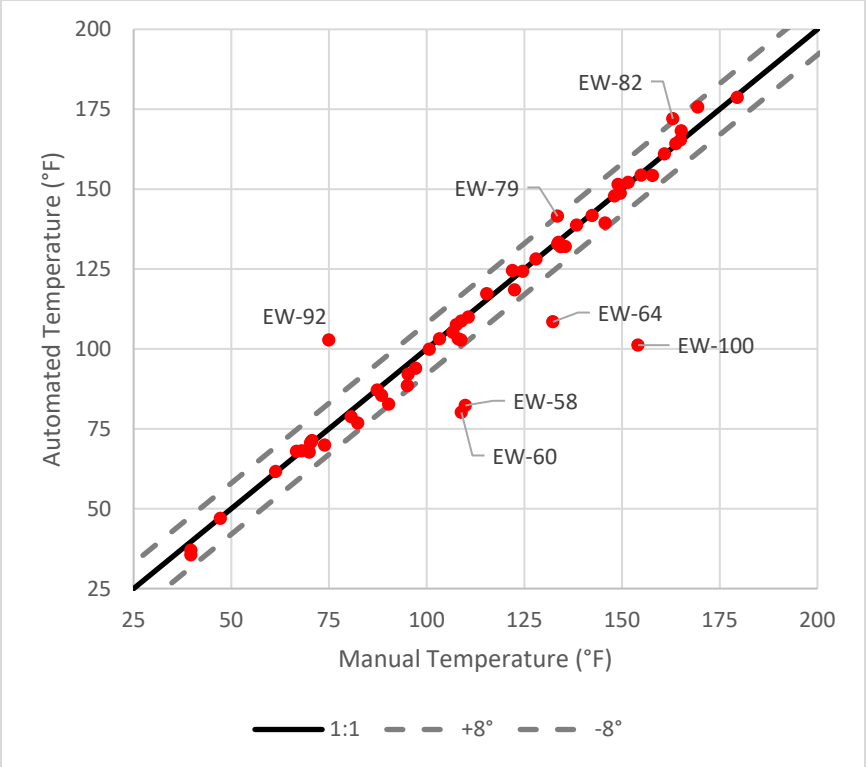
The temperatures at EW-79 and EW-82 were very close to the threshold and may simply be an anomaly. Further investigation may be merited if these discrepancies worsen.

Actions at Wells with Automated Temperatures less than Manual Temperatures

A potential cause of manual temperatures falling below automated temperatures is low LFG flowrates. Because the automated temperature recording device is further from the well casing than the manual temperature measurement sampling port at a typical wellhead (see Figure 2), low LFG flow may cause the automated temperature probe to record a temperature more influenced by ambient temperature outside the pipe. The LFG flowrates at EW-58, EW-60, and EW-64 were less than 10 cfm during manual temperature measurements in March. Regardless, SCS-FS and the City are planning ice bucket tests for the accuracy of these sensors, including EW-100.

Figure 2. Typical LFG Extraction Wellhead with Automated Temperature Probe

Figure 3. Automated vs. Manual Temperature Measurements



1.3.3 Monthly Regulatory Wellhead Temperature Measurements

Routine monthly temperature monitoring was conducted on March 10, 2025 to comply with 40 CFR 60.36f(a)(5). Table 3 provides the status of exceedances recorded during this monitoring period.

Table 3. March Temperature Exceedance Summary

Well ID	Initial Exceedance Date	Compliant Reading	Most Recent Reading	Duration of Exceedance	Status as of 2/1/2025
EW-84	2/3/25	3/21/25 179.8°F	3/21/25 179.8°F	47 days	Resolved within 60-day timeline
EW-87	2/25/25	3/25/25 140.5°F	3/25/25 140.5°F	29 days	Resolved within 60-day timeline

1.3.4 LFG Sampling

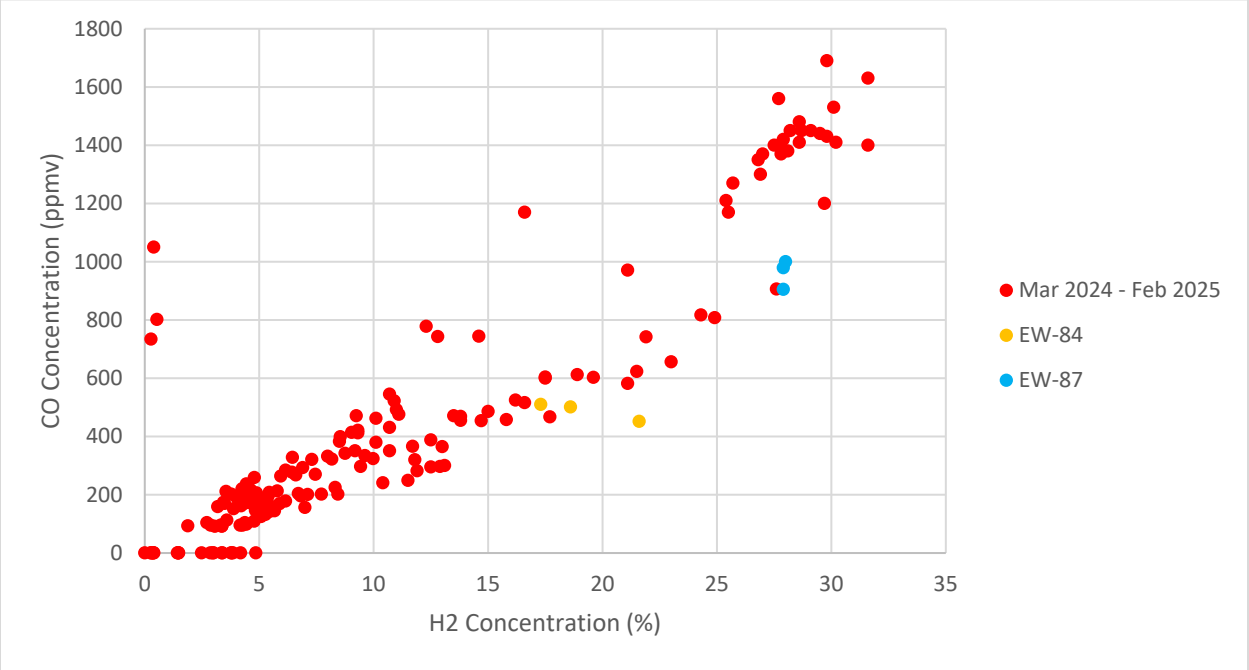
SCS collected weekly LFG samples from wells with temperature exceedances lasting more than seven days using 1.5-L Summa canisters. The samples were sent to Enthalpy Analytical for laboratory analysis of carbon monoxide (CO) and hydrogen (H_2) content. As of April 1, 2025, the City has received lab results for sampling on February 27, 2025 and March 4, 2025, and March 13, 2025 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		2/27/25	3/4/25	3/13/25
EW-84	CO (ppmv)	501	510	452
	H2 (Vol. %)	18.6	17.3	21.3
EW-87	CO (ppmv)	905	979	1000
	H2 (Vol. %)	27.9	27.9	28.0

The presence of hydrogen in the samples collected during this monitoring period indicates that combustion reactions are unlikely. As shown in Figure 4, the carbon monoxide and hydrogen data collected during this period appear to be generally consistent with the data collected previously in 2024, but exhibit slightly higher levels of hydrogen when compared to the overall trend.

Figure 4. CO vs H_2 Concentration from gas wells in March 2025 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 CONSTRUCTION

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 CONSTRUCTION

Operation of the sidewall odor mitigation system is monitored on a monthly basis. During the month of March 2025, SCS-FS reconnected the western LFG header pipe serving the SOMS to the active extraction system, and reconnected wellheads 2L, 3U, 46U and 46L. Additional flex hose piping was ordered to reconnect more wellheads to the SOMS.

SCS-FS collected monitoring data at each wellhead under vacuum in March. 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 [%]
3/3/2025, 3/5/2025	4.6	6.5	17.9	71.0

The sidewall system average gas composition indicates lower methane content than other components in the LFGCCS. These gas composition measurements indicate that the SOMS is collecting a mixture of LFG escaping the sidewall and ambient air. 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

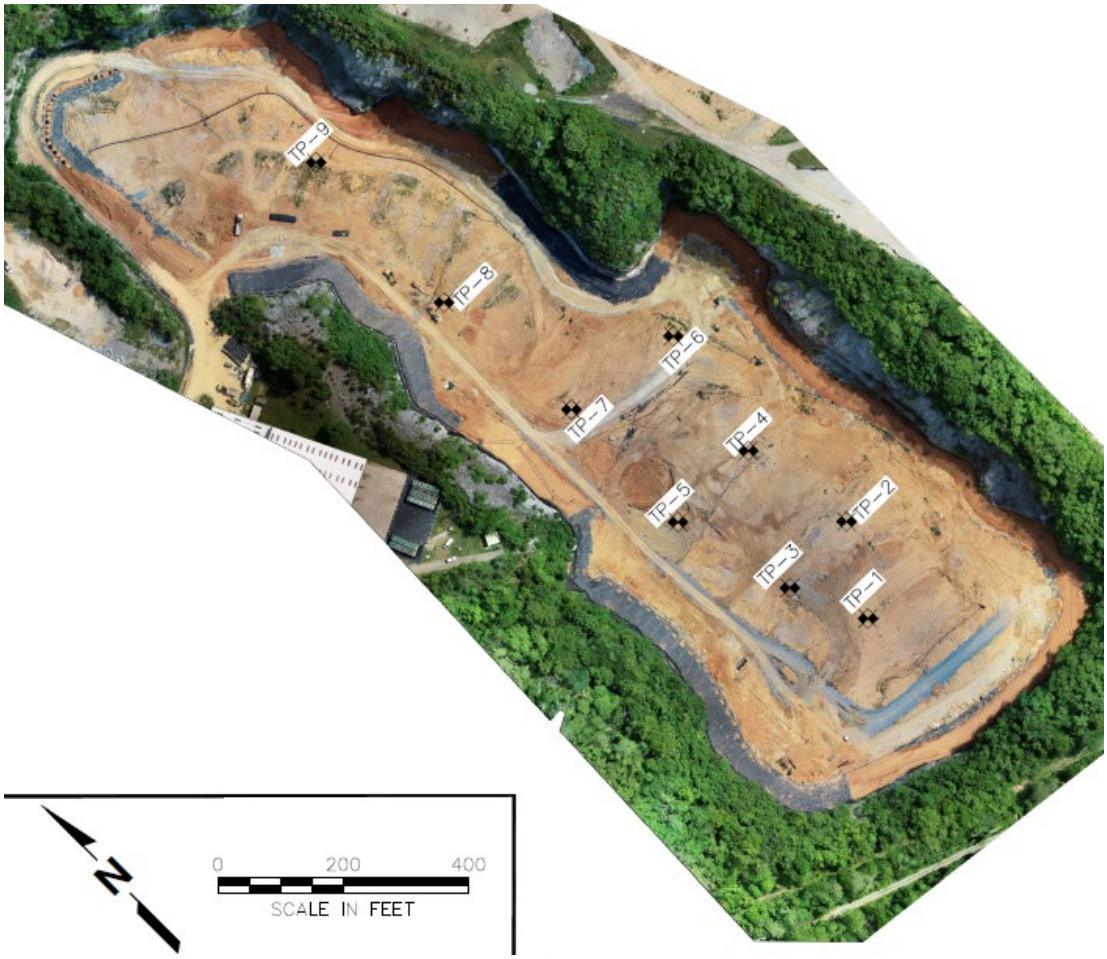
SCS designed a monitoring system to collect temperature data throughout the waste mass. The steps taken by the City to implement this system are described in the following sections.

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 5.

Figure 5. 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 March 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 March are shown in Appendix B. The average temperatures recorded for March 2023, March 2024, February 2025, and March 2025 are shown in Figures 6 through 12 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

TP-3 began having sensor reading issues at the 150-foot depth at the end of October 2024. These issues continued through December 2024. Sensor readings resumed at the 25-foot depth in early December; however, sensor reading issues arose at the 125-foot and 175-foot depths in the latter half of December.

In January 2025, all sensors in TP-3 below the 75-foot level appeared to record erroneous temperatures intermittently. There was no improvement to the temperature signals after replacing the thermocouple interface card at TP-3 in January. This may indicate that the thermocouples are damaged. TP-2 stopped recording on 2/14/25, indicating thermocouple failure. Measurements at the 75-foot level and 150-foot level appeared erroneous in January as well.

SCS coordinated with the City in March 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. The City is considering alternative methods to record temperatures to replace the loss of TP-2 and TP-3, such as utilizing nearby well casings as housing for the thermocouples.

3.1.2 Probes with Consistent Temperatures over Time

TP-1, TP-3, TP-6, TP-8, and TP-9 have exhibited relatively consistent monthly average temperatures over time (as shown in Figures 6, 7, 8, 9, and 10).

Figure 6. TP-1 Average Temperatures for the Months of March 2023, March 2024, February 2025, and March 2025

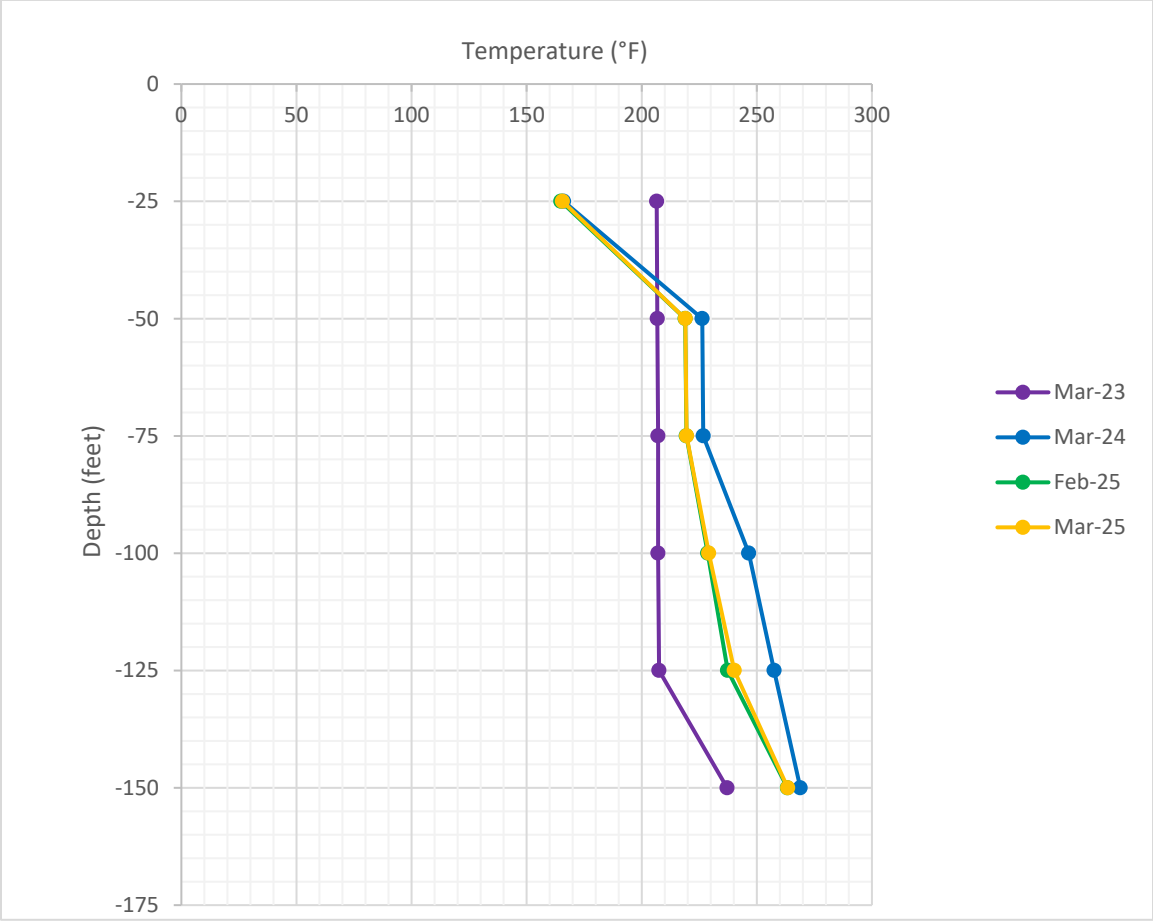


Figure 7. TP-3 Average Temperatures for the Months of March 2023, March 2024, February 2025, and March 2025

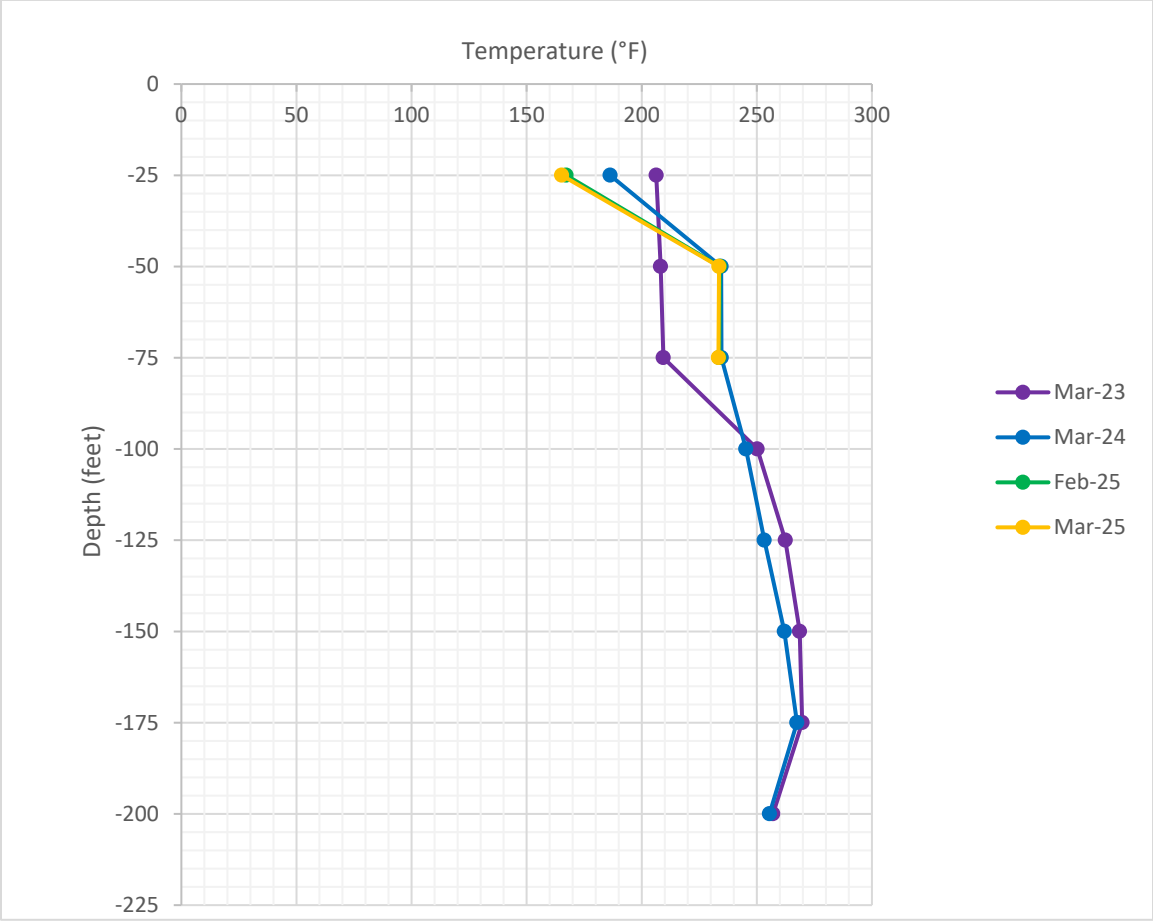


Figure 8. TP-6 Average Temperatures for the Months of March 2023, March 2024, February 2025, and March 2025

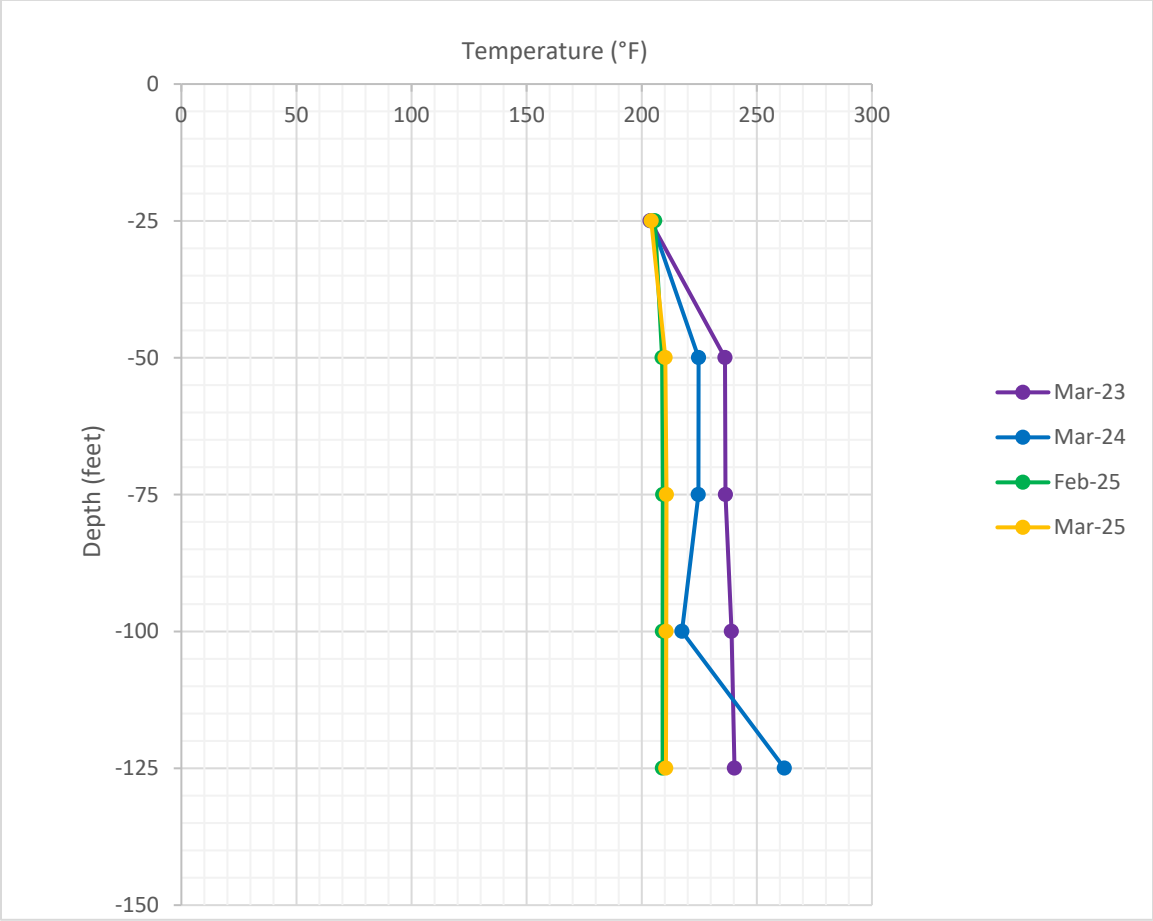


Figure 9. TP-8 Average Temperatures for the Months of March 2023, March 2024, February 2025, and March 2025

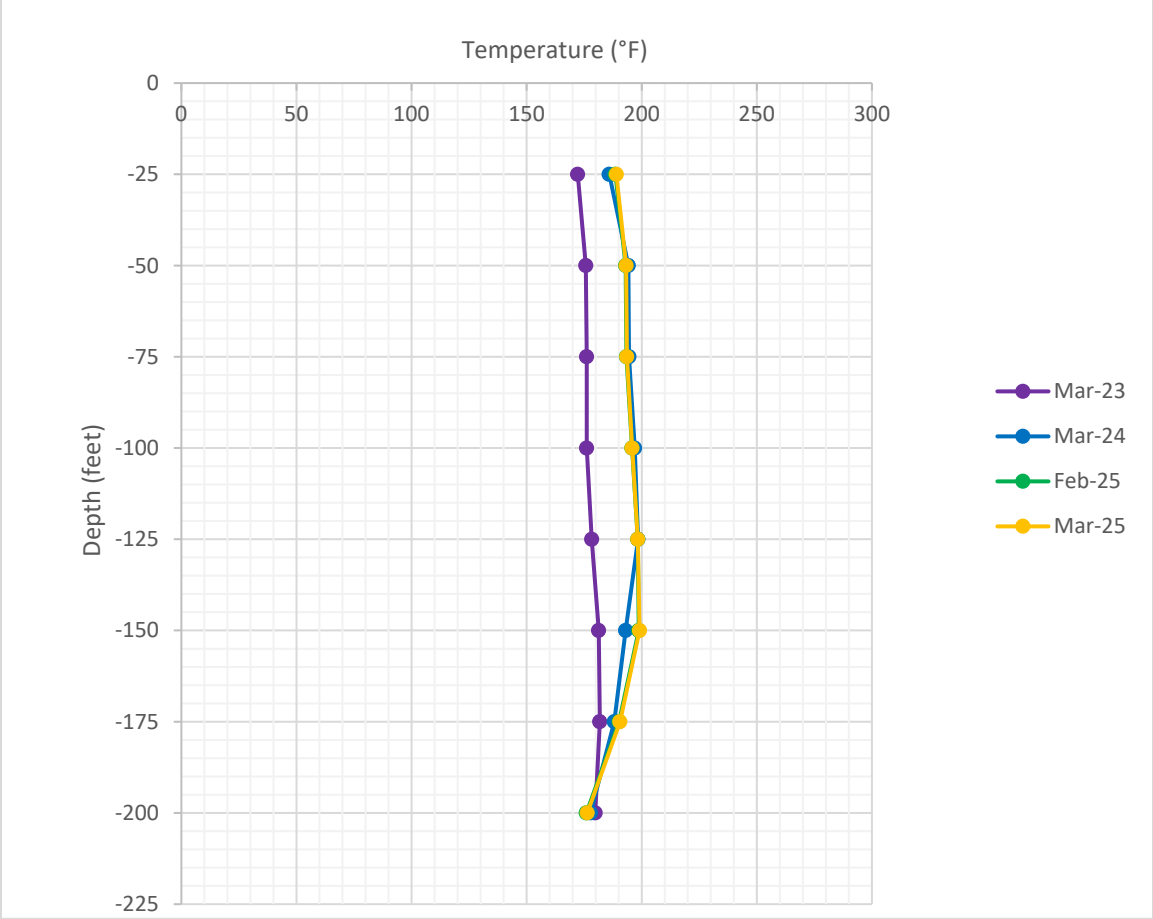
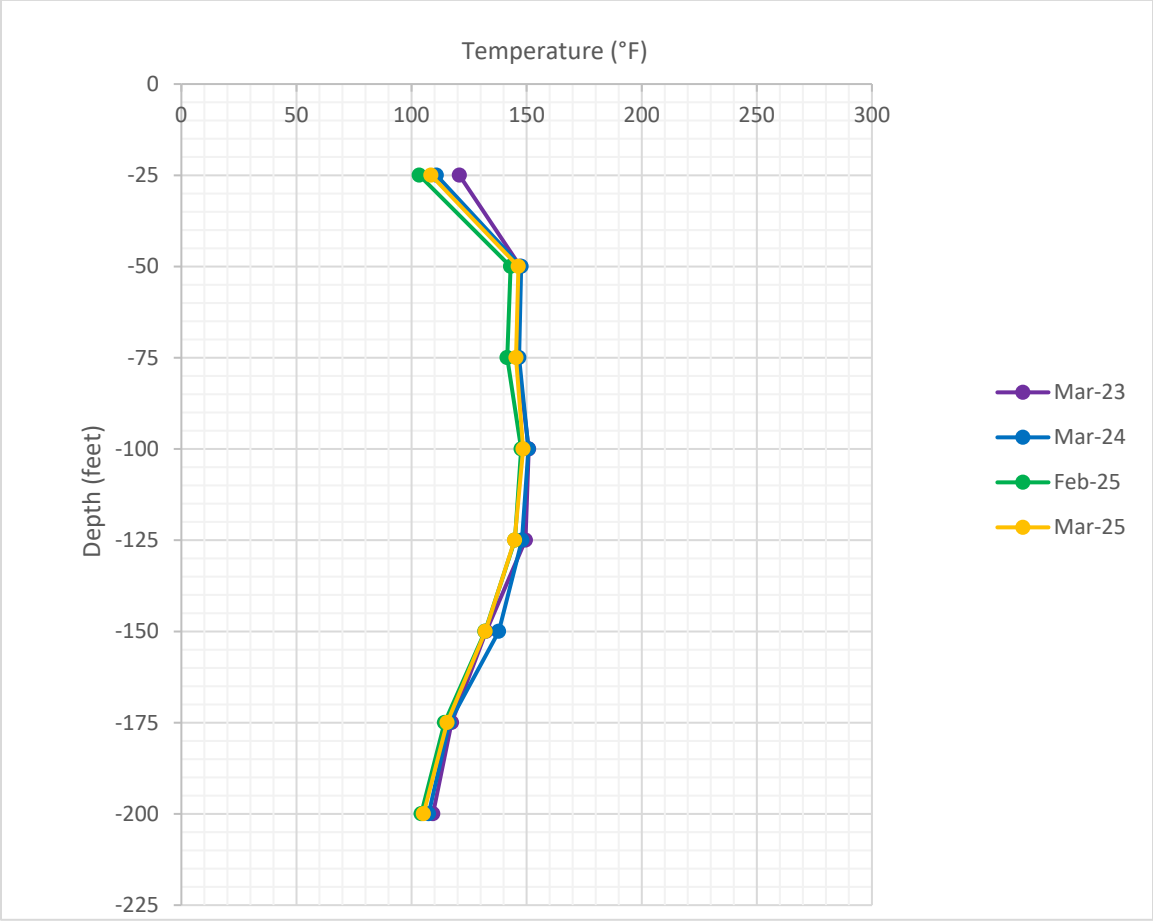


Figure 10. TP-9 Average Temperatures for the Months of March 2023, March 2024, February 2025, and March 2025



3.1.3 Probes with Changing Temperatures over Time

The temperatures at probes TP-5 and TP-7 are more varied over time.

- TP-5: The curve shape of the temperature averages with depth in Winter and Spring months are similar to one another while the Summer and Fall months follow a different pattern. Changes in temperature trends with depth at TP-5 have been observed since its installation. April 2024 is provided for this temperature probe instead due to recording issues in March 2024 (see Figure 11).
- TP-7: There is no identifiable trend over time in the average temperatures in TP-7. Changes in temperature trends with depth at TP-7 have been observed since its installation. (see Figure 12).

Figure 11. TP-5 Average Temperatures for the Months of March 2023, April 2024, February 2025, and March 2025

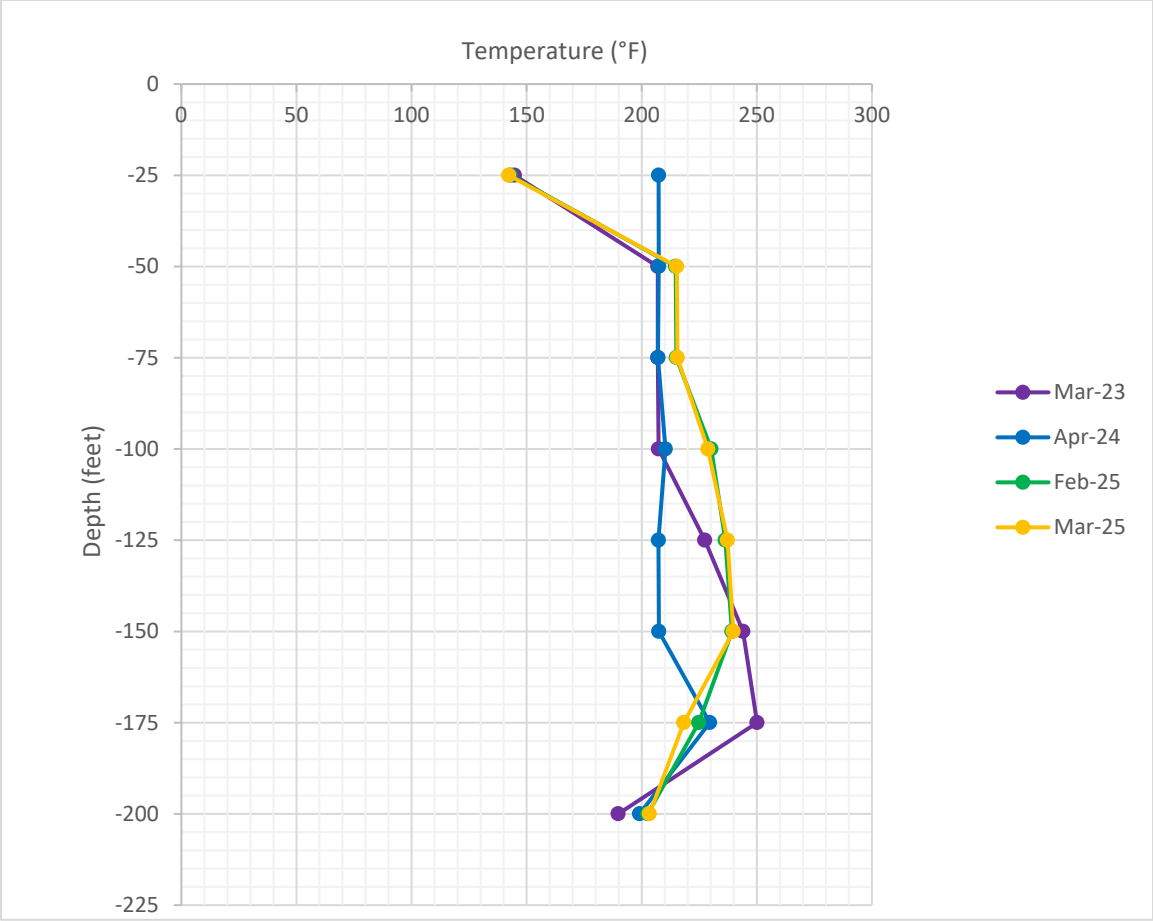
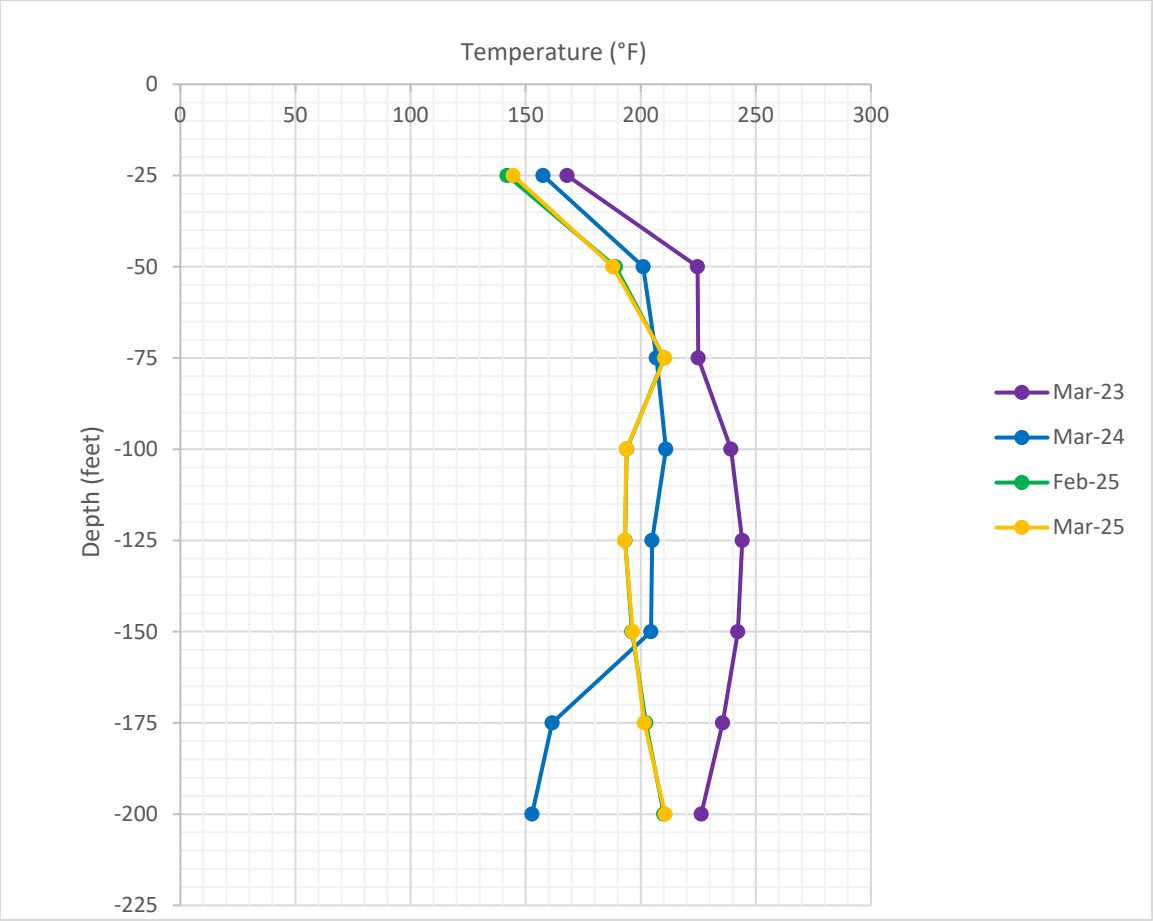


Figure 12. TP-7 Average Temperatures for the Months of March 2023, March 2024, February 2025, and March 2025



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. Refer to Appendix G for narrative sections without updates.

4.1 DEWATERING PUMP OPERATIONS AND MAINTENANCE

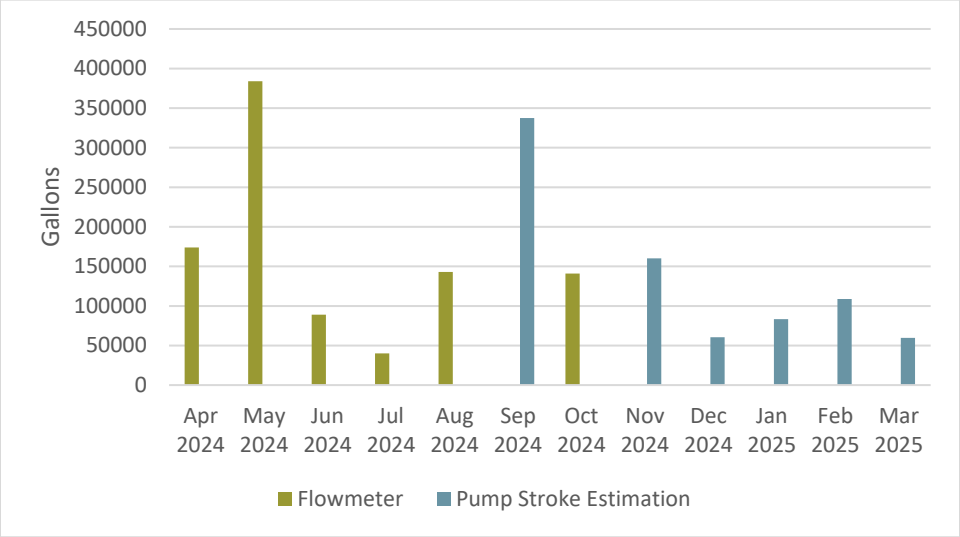
4.1.1 Total LFG Liquids Removal

To improve the accuracy of the total landfill gas liquids flow rate, two flow meters were installed on the landfill gas liquid forcemains in December 2023. One flow meter was installed on the SWP No. 588 primary landfill gas liquid forcemain. The other was installed on the SWP No. 588 alternate landfill gas liquids forcemain, which also serves as the conduit for condensate from the SWP No. 498 landfill gas liquids and the SWP No. 588 stormwater pump.

Figure 13 illustrates landfill gas liquids removal over the past year. During September, November, and December 2024 through March 2025, the liquids data recorded by the flowmeter were replaced with estimates from stroke counter data (colored in blue in Figure 13). These replacements were due to either the use of stormwater liquids for cleaning the dewatering forcemain or air intrusion in the dewatering forcemain, which caused the flowmeter readings to be nonrepresentative or erroneous.

SCS and the City continue to address the air intrusion into liquids force mains, which interferes with the LFG liquids flowmeter, by installing additional air release valves and cleanouts to decrease interruptions to its function. SCS will continue to use stroke count estimates to track total liquids removal in the meantime. Stroke counts indicate approximately 60,000 gallons of liquid were pumped out of the landfill in March.

Figure 13. Total Dewatering Liquid Removal



4.1.2 Status of LFG Liquids Pumps

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. The City, along with SCS-FS, have found that the best pumps for the landfill's current conditions are QED pumps designed for high temperature operation. The City received eight additional QED pumps in October 2024; some were installed in new wells and others were reserved to swap/replace existing pumps for cleaning. The additional pumps will help with the rotation of field pumps needing maintenance and replacement going forward.

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

Wells with pumps working properly

- EW- 50, EW-52, EW-53, EW-59, EW-60, EW-68, EW-78, EW-85, EW-93, EW-94, EW-98
  - The pump in EW-53 was installed in March
  - The pump in EW-68 and EW-93 was swapped in March for cleaning and tri-tubing was replaced
  - The pump in EW-59 was swapped in March
  - The pump in EW-85 was put back in service in March.

Inaccessible Pumps/Wells

- The pumps in EW-33B and EW-76 are stuck in the well casing and have been disconnected. SCS-FS is coordinating with the City to attempt to pull the pumps with a piece of heavy equipment.

- The well casing at EW-49 needs to be cut down to perform maintenance on the pump. SCS-FS disconnected this pump in March 2025.

- SCS-FS used heavy equipment to attempt to extract and replace the pump in EW-51. The pump was unable to be removed and is now considered to be permanently lodged in the well, rendering it unable to be fixed.

- The casings of EW-36A, EW-49, EW-81, EW-83, EW-91, EW-92, and EW-96 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. SCS-FS and the City are coordinating placement of additional soil around the wells to provide safe access. Figure 14 shows a technician attempting to access EW-96 for liquid level measurement.

Figure 14. Technician Attempting to Access EW-96

Other circumstances

- Based on a review of the stroke counter data, the pump in EW-52 pumped approximately 1,254 gallons of liquid during the month of March 2025. The airline was unable to be disconnected to de-energize the pump in March 2025.

- The pumps in EW-54, EW-55 and EW-67 were unable to be operated in February due to a clogged forcemain line. All were disconnected. SCS-FS and the City are coordinating efforts to clean the forcemain.

- The pump in EW-59 was disconnected during most of the month of March 2025, but was replaced during the week of March 24, 2025.

- The pump in EW-85 did operate in March 2025, but appeared to pump low volumes. SCS and the City will continue to monitor this pump.

- The pump in EW-61 was removed for servicing during the month of March.

- The pump in EW-62 is offline due to a damaged airline. SCS-FS will evaluate the extent of damage and will coordinate with the City to procure materials needed for the repair.

- Multiple pumps have been installed in EW-74 and EW-75 and all pump types experience buildup on the intake screens preventing pump operation. EW-82, EW-87, EW-88, and EW-89 are scheduled to be removed and inspected by SCS-FS in April.

In addition to the challenges associated with the individual pumps, SCS-FS has generally observed high forcemain pressures and significant build-up of solids within the forcemain. An example of solids build-up within the forcemain is shown in Figure 15. This results in SCS-FS dedicating substantial amounts of time to relieving air pressure on the system. The City issued a solicitation for bids for installation of additional cleanouts and air release valves in the wellfield to address the issue on February 18, 2025.

Figure 15. Solids in Landfill Gas Liquids Forcemain

4.2 SAMPLING AND ANALYSIS PLAN

4.2.1 Sample Collection

On March 5, 2025, SCS collected a leachate sample from three Dual Phase LFG extraction wells (EW-50, EW-60, and EW-68). 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 March 2025, SCS' field staff were not able to collect samples from the wells summarized 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 at the time of monitoring for the following wells: EW-52, EW-53, EW-64, EW-78, EW-93, and EW-98. • Pump was disconnected or off at the time of monitoring for EW-36A, EW-49, EW-54, EW-55, EW-59, EW-61, EW-65, EW-67, EW-81, EW-82, EW-83, EW-85, and EW-96. • Pump was not running and the liquid depth was not measured at the time of monitoring for EW-76 and EW-94. • Pump was disconnected or off at the time of monitoring and the liquid depth was not measured at the time of monitoring for EW-87, EW-88, and EW-89. • Pump was disconnected or off at the time of monitoring and liquid level could not be safely measured for EW-62 and EW-63.	• There was no pump at the time of the monitoring for the following wells: EW-66, EW-69, EW-70, EW-71, EW-72, EW-73, EW-74, EW-77, EW-79, EW-80, EW-84, EW-86, EW-91, and EW-99. • There is no pump and the well appeared dry at the time of monitoring for EW-56. • There was no pump at the time of the monitoring and well was too tall to safely measure the liquid level for EW-92 and EW-97. • There is no pump and the liquid depth was not measured at the time of monitoring for EW-33B, EW-75. • There was no pump at the time of the monitoring and liquid level could not be safely measured for EW-95.

The samples were delivered to Enthalpy Analytical (Enthalpy) in Richmond, Virginia for analysis. Enthalpy's Virginia Division of Consolidated Laboratory Services (VELAP) certification is provided on the certificate of analysis (COA) included in **Appendix F**. 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, except for volatile fatty acids (VFAs) as this analysis was inadvertently omitted from the sampling plan. Future lab analysis will include VFA analysis.

4.2.1 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. Trip blanks were 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 each trip blank sample bottle with distilled/deionized water and transported them with the empty bottle kits to SCS. Field personnel handled the trip blanks like a sample; they remained un-opened, were transported in the sample cooler, and were returned to the laboratory for analyses. 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 March 2025 monitoring event. The laboratory analysis report for the March 2025 monitoring event trip blank is included in Appendix F. The March 2025 monitoring event laboratory QA/QC report, including the method blank results, is included in the COA in Appendix F.

4.2.2 Data Validation

To identify analytical data that may not represent valid results, data from the monitoring events were validated by the Laboratory and SCS in accordance with United States Environmental Protection

Agency (EPA) guidance[2]. 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 estimated. Samples with parameter detections less than five times that of the trip blank, field blank, and/or method blank detection but greater than the laboratory's LOD are flagged with a "B" qualifier. Samples with common laboratory contaminant parameter detections 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 validated 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 March 2025 monitoring event as there were no QC blank detections. The March 2025 detections flagged with a "J" qualifier are shown on Table 7.

4.2.3 Laboratory Analytical Results

The analytical results for the March 2025 leachate samples collected from extraction wells EW-50, EW-60, and EW-68 are summarized in Table 7. The associated COA is included in Appendix F. Parameter results from March 2025 and previous monitoring events (November 2022 – February 2025) are presented on a table in Appendix F. Time-series plots of each VOC for the wells that have historically been sampled are included in Appendix F.

Table 7. Monthly LFG-EW Leachate Monitoring Event Summary

Well ID	EW-50	EW-60	EW-68	LOD	LOQ
Parameter	**March 2025 Concentration**				
Ammonia as N (mg/L)	**1240**	**1480**	**2110**	146	200
Biological Oxygen Demand (mg/L)	**3490**	**20400**	**22000**	0.2	2
Chemical Oxygen Demand (mg/L)	**8700**	---	---	1000	1000
	---	---	**51500**	5000	5000
	---	**74600**	---	10000	10000
Nitrate as N (mg/L)	ND	ND	ND	2	10
Nitrite as N (mg/L)	ND	ND	ND	2	10
Total Recoverable Phenolics (mg/L)	**3.88**	---	---	0.3	0.5
	---	**21.4**	**25.9**	0.75	1.25
Total Kjeldahl Nitrogen (mg/L)	**1230**	---	---	40	100
	---	**1920**	**2700**	100	250
SEMI-VOLATILE ORGANIC COMPOUND (ug/L)					
Anthracene	ND	---	ND	100	200
	---	ND	---	200	400

[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.

Table 7. Monthly LFG-EW Leachate Monitoring Event Summary

Well ID	EW-50	EW-60	EW-68	LOD	LOQ
Parameter	**March 2025 Concentration**				
TOTAL METALS (mg/L)					
Arsenic	**0.158**	**0.344**	**0.254**	0.01	0.02
Barium	**0.516**	**1.05**	**2.93**	0.005	0.01
Cadmium	ND	**0.0119**	ND	0.002	0.004
Chromium	**0.248**	**0.199**	**0.155**	0.008	0.01
Copper	**0.0087 J**	ND	**0.0142**	0.008	0.01
Lead	**0.0113**	**0.0816**	**0.0229**	0.006	0.01
Mercury	ND	---	ND	0.001	0.001
	---	**0.0146**	---	0.002	0.002
Nickel	**0.0933**	**0.0375**	**0.0818**	0.007	0.01
Selenium	ND	ND	ND	0.04	0.05
Silver	ND	ND	ND	0.005	0.01
Zinc	**0.0415**	**0.155**	**0.0277**	0.01	0.01
VOLATILE ORGANIC COMPOUNDS (ug/L)					
2-Butanone	**2540**	---	---	150	500
	---	**30600**	**33700**	1500	5000
Acetone	**4460**	---	---	350	500
	---	**72600**	**86400**	3500	5000
Benzene	**157**	**1260**	**2350**	20	50
Ethylbenzene	**61.5**	**168**	**117**	20	50
Tetrahydrofuran	ND	**4890**	**10000**	500	500
Toluene	**90.5**	**150**	**166**	25	50
Xylenes	**108 J**	**386**	**200**	50	150

--- = not available
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. Refer to Appendix G for narrative sections without updates.

5.1 SETTLEMENT MONITORING AND MANAGEMENT PLAN

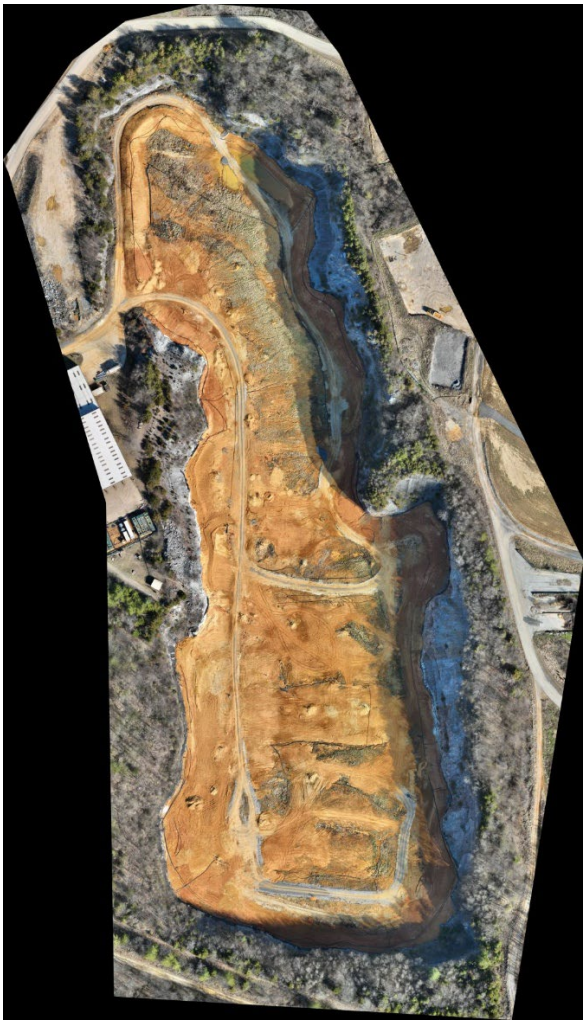
Information about the Settlement Monitoring and Management Plan for the SWP No. 588 Landfill and a copy of the plan can be found in the November 2022 Compliance Report for the SWP No. 588 Landfill.

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 March 11, 2025. Aerial imagery collected on March 11, 2025, is depicted in Figure 16. The topographic data collected is shown on Sheet 4 in Appendix E.

Figure 16. Aerial Photo of the SWP No. 588 Landfill



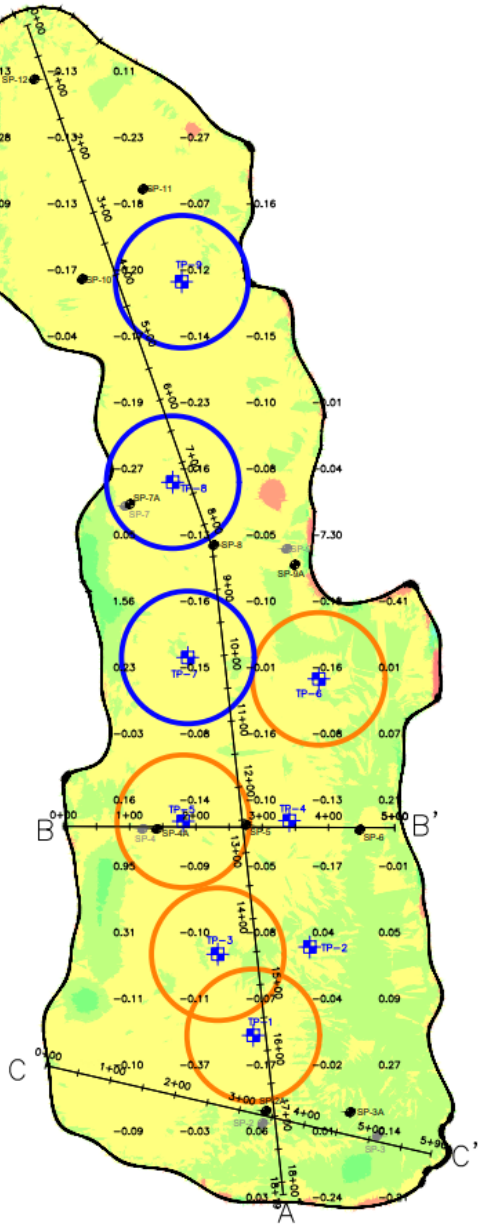
The topography within the landfill footprint was compared to topographic data collected by SCS using photogrammetric methods on February 18, 2025. A drawing depicting the February 18, 2025 topography is included as Sheet 3 in Appendix E.

Based on a comparison of the topographic data collected on those two dates, the data shows a fill of 1,400 cubic yards across the site. Fill may have been placed on the site to address differential settlement, surface emissions, and to provide access to LFG collection vertical wells. During that

same time period, calculations indicate a "cut" volume of approximately 3,200 cubic yards. Cut volumes are typically attributed to settlement. This resulted in a net volume decrease of approximately 1,800 cubic yards.

A visual depiction of settlement and filling at the landfill during this time is depicted in Figure 17. Areas in yellow, orange, and red indicate where elevations decreased and areas in green 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 17. 1-Month Elevation Change Map



The locations of in-waste temperature monitoring probes are also shown on Figure 17, Figure 18, and Figure 19. The circles around the probes in each of these figures are indicative of the average

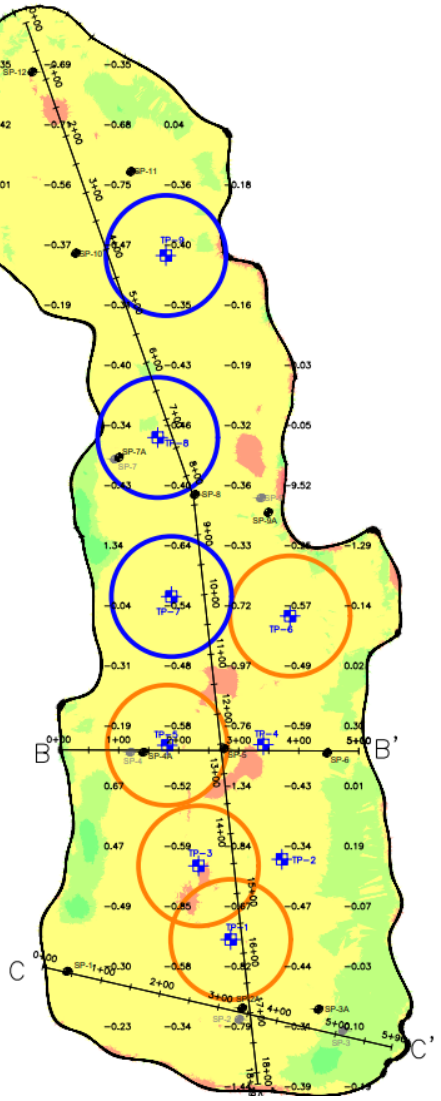
borehole temperature. The circles shown are offset from the probes for clarity only and do not necessarily indicate temperatures measured at locations away from the probe. Probes with a blue circle around them typically have an average temperature less than 200°F across the full depth of the probe. Probes 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 represent no temperature readings for this month due to sensor malfunctions. There were no probes measuring average temperatures greater than 250°F and less than 300°F during the month of February 2025.

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 feet.

SCS also compared the topographic data collected in February to the topographic data collected on December 13, 2024. 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 10,900 cubic yards. During that same time period calculations indicate approximately 1,100 cubic yards of fill were placed on the landfill, for a net decrease in waste volume of 9,800 cubic yards.

A visual depiction of settlement and filling at the landfill during this time is depicted in Figure 18. Areas in orange/yellow indicate where elevations decreased and areas in green 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 18. 3-Month Elevation Change Map

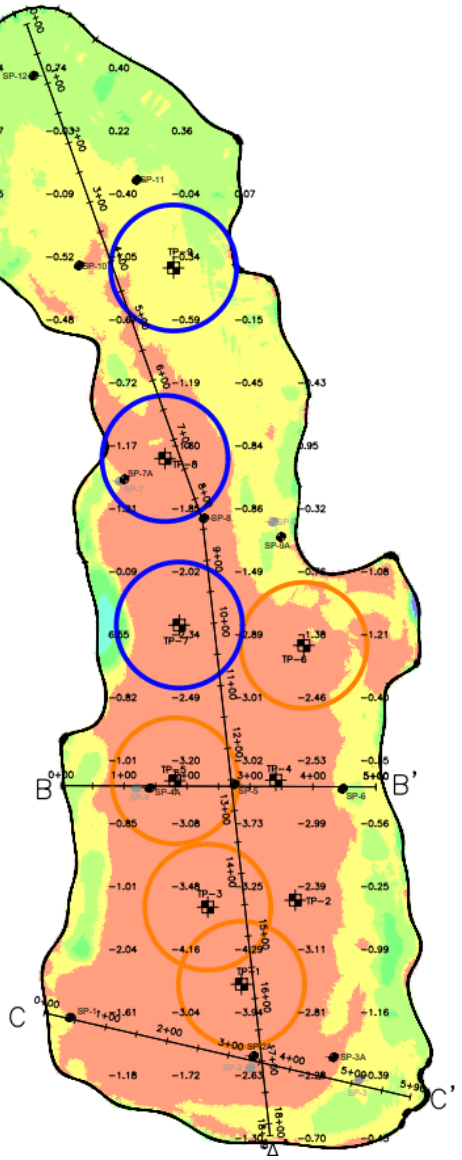


Based on the area of the landfill and the net volume change, the average elevation decrease was approximately 0.3 feet.

SCS also compared the topographic data collected in March 2025 to the drone topographic data collected on March 13, 2024. 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 38,600 cubic yards. During that same time period approximately 3,300 cubic yards of construction-related fill were placed on the landfill. This fill was primarily soil placed as part of the sidewall odor mitigation system construction and ongoing maintenance (i.e. filling to compensate for settlement). This resulted in a net volume decrease of approximately 35,300 cubic yards.

A visual depiction of settlement and filling at the landfill during this time is depicted in Figure 19. Areas in red indicate where elevations decreased and areas in green 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 19. 1-Year Elevation Change Map



The largest settlement occurred primarily at the southern end of the landfill where the waste settled by 4 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.

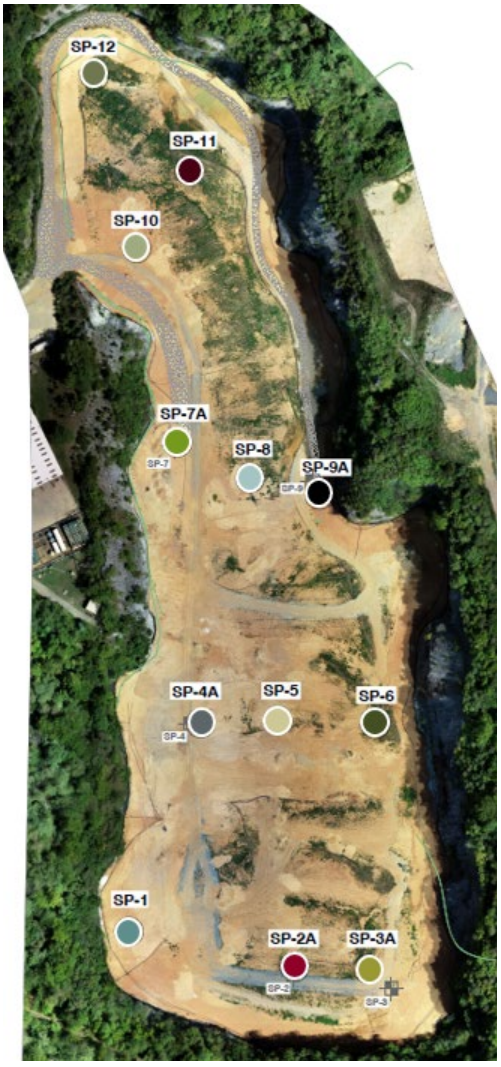
Based on the landfill area and the net volume change, the average elevation decrease was approximately 1.2 feet.

SCS will collect topographic data covering the landfill surface again in April using photogrammetric methods via UAV. This data will be compared to the data collected in April 2024, January 2025, and March 2025.

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 20 and on Sheet 1 in Appendix E. The construction and installation of the settlement plates generally conforms to the design outline in the Settlement Monitoring and Management Plan.

Figure 20. 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 8.

Table 8. Elevation and Strain Data at Settlement Plate Locations

Settlement Plate	Northing	Easting	Elevation on Mar. 18, 2025	Elevation Change Since Feb. 14, 2025	Strain[3] Since Feb. 14, 2024	Elevation Change Since Installation
SP-1	3,397,887.6	10,412,080.7	1,829.0	-0.04	-0.1%	-5.5
SP-2A	3,397,823.1	10,412,370.6	1,793.4	-0.04	0.0%	-2.3
SP-3A	3,397,820.2	10,412,498.3	1,779.3	0.01	0.0%	-0.9
SP-4A	3,398,247.1	10,412,207.0	1,803.2	-0.10	-0.1%	-2.0
SP-5	3,398,255.8	10,412,339.5	1,788.8	-0.11	0.0%	-11.9
SP-6	3,398,248.9	10,412,509.9	1,773.1	-0.05	0.0%	-4.6
SP-7A	3,398,731.8	10,412,158.0	1,822.5	-0.03	0.0%	-0.9
SP-8	3,398,678.2	10,412,290.9	1,800.0	-0.09	0.0%	-7.3
SP-9A	3,398,644.3	10,412,416.2	1,788.2	-0.04	0.0%	-0.5
SP-10	3,399,080.3	10,412,093.3	1,837.0	-0.04	0.0%	-3.2
SP-11	3,399,216.4	10,412,183.8	1,814.6	0.00	0.0%	-1.7
SP-12	3,399,381.8	10,412,019.6	1,809.8	0.05	0.0%	-0.9

Prior to April 2024, the City's in-house surveyor read the settlement plate elevations. Starting April 2024, the settlement plate elevations were measured by FEI Civil Engineers and Land Surveyors.

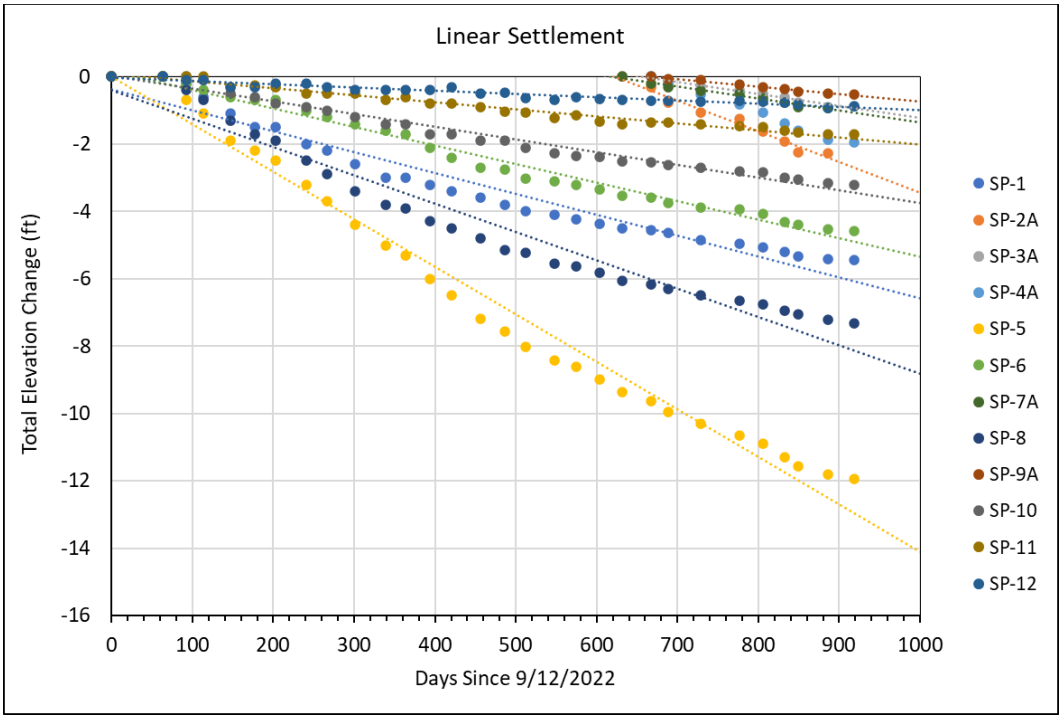
Settlement Plates 1 and 4A demonstrated larger strains due to settlement than at other locations. Settlement Plates 1 and 4A are located in the middle/southern end of the landfill. This area is the location of the gas wells and temperature probes exhibiting higher temperatures. These higher strain values are typical of elevated temperature landfill conditions.

The strain values at the other Settlement Plates were lower during this monthly measurement period.

Figure 21 shows the changes in elevation of select settlement plates over time. For the purposes of recording data in this figure, times 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.

Figure 21. Elevation Change of Select Settlement Plates Over Time



The settlement plates will be surveyed again during April 2025. The elevations surveyed will be compared to the elevations surveyed the previous months.

6.0 INTERMEDIATE COVER AND EVOH COVER SYSTEM

The City has taken steps to provide intermediate and temporary cover of the wastes in the landfill. The section below outline the steps taken by the City and future plans related to temporary 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 EVOH COVER SYSTEM DESIGN

An amendment to the Consent Decree was issued on March 21, 2024 which requires an ethylene vinyl alcohol (EVOH) deployment no later than December 1, 2026. The amended Consent Decree also requires regular settlement assessments, and the EVOH deployment may occur earlier if settlement rates appear acceptable. The first of these assessments was submitted to VDEQ on April 11, 2024. The most recent assessment was submitted on January 13, 2025. The next assessment will be submitted on or before April 10, 2025.

6.3 EVOH COVER SYSTEM PROCUREMENT

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

6.4 EVOH COVER SYSTEM INSTALLATION

As outlined in the amendment to the Consent Decree dated March 21, 2024, the deadline for EVOH Cover System installation has been extended. 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 March 2025, those actions include:

- Ongoing basis: Four (4) 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 Quarry Landfill, which included moving up to 360 tons of soil to address settlement issues.

- Updates at the Quarry Landfill included troubleshooting faulty temperature probes in the southern regions of the landfill, which included removing and replacing affected sensors; replacing section to piping that leads to the stormwater flow meter due to clogging issues; working to realign the header pipe to the Sidewall Odor Mitigation System (SOMS) to help create efficiencies by reducing condensation and maximizing flow (this work is now 90 percent complete on both the east and west sides of the landfill); removed and replaced one of the dual phase extraction pumps to increase liquid removal from the site.
- The City held a pre-bid meeting with four potential contractors in the second week of March for a new permanent flare and emergency generator at the landfill. The new permanent flare, which will require a new air permit, would double the capacity of the previous flare, and matches the capacity of current temporary flare.
- SWP 221 and SWP 588 compliance reports are now up to date and can be found here.

- **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 quarry landfill.**
    - Website now includes weekly air monitoring reports starting from May 15, 2023, and running through February 23, 2025. Additional reports will be posted as the they are received.

- **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 First Quarter surface emissions monitoring event on March 7, 2025. The surface emission monitoring route included the entire waste footprint of the Permit No. 588 landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) 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 outside of the active filling area.

No exceedances were detected during this quarterly monitoring event on the serpentine route, however, two exceedances were detected at surface cover pipe penetrations. This monitoring event also represented the weekly monitoring event for that week. A quarterly SEM report documenting exceedance locations, corrective actions, and re-monitoring results 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 March 12, 2025.

Weekly SEM

In addition to the standard regulatory quarterly surface emissions monitoring, the monitoring in March 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 Thermo Scientific TVA-2020 Flame Ionization Detector (FID) 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 March monitoring events on March 12, 2025; March 19, 2025; March 26, 2025; and April 2, 2025. 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.

March 12, 2025
File No. 02218208.04

Mr. Jonathan Chapman
Enforcement Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – March 7, 2025
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Mr. Chapman:

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 March 7, 2025. 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 the Permit No. 588 Landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) 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. 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). The 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.

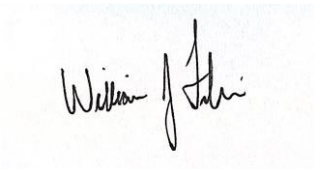
A summary of ongoing exceedance points is provided in Table 2.

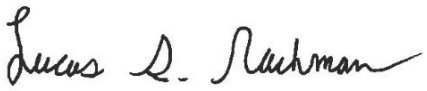
Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	3/7/25 Event	3/7/25 Event Result	Comments
EW-53	2/24/25	10-Day Retest	Passed	Requires 1-Month Retest
EW-54	2/24/25	10-Day Retest	Failed	Requires 2nd 10-Day Retest
EW-66	2/24/25	10-Day Retest	Failed	Requires 2nd 10-Day Retest

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

Sincerely,





William J. Fabrie
Staff Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WJF

cc: Randall Eads, City of Bristol
Jonathan Hayes, City of Bristol
Laura Socia, City of Bristol
Susan “Tracey” Blalock, VDEQ

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 7, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	3.7 PPM	OK			Start Serpentine Route
2	5.2 PPM	OK			
3	6.3 PPM	OK			
4	2.8 PPM	OK			
5	1.5 PPM	OK			
6	1.3 PPM	OK			
7	1.2 PPM	OK			
8	1.2 PPM	OK			
9	1.1 PPM	OK			
10	1.3 PPM	OK			
11	1.2 PPM	OK			
12	1.2 PPM	OK			
13	1.5 PPM	OK			
14	3.4 PPM	OK			
15	3.6 PPM	OK			
16	4.3 PPM	OK			
17	5.9 PPM	OK			
18	3.0 PPM	OK			
19	3.2 PPM	OK			
20	1.8 PPM	OK			
21	2.1 PPM	OK			
22	2.7 PPM	OK			
23	8.9 PPM	OK			
24	1.6 PPM	OK			
25	1.4 PPM	OK			
26	3.1 PPM	OK			
27	3.0 PPM	OK			
28	1.6 PPM	OK			
29	1.6 PPM	OK			
30	10.8 PPM	OK			
31	36.1 PPM	OK			
32	39.4 PPM	OK			
33	19.3 PPM	OK			
34	188.0 PPM	OK			
35	37.6 PPM	OK			
36	249.0 PPM	OK			
37	101.0 PPM	OK			
38	23.1 PPM	OK			
39	24.1 PPM	OK			
40	5.0 PPM	OK			
41	32.6 PPM	OK			
42	71.1 PPM	OK			
43	3.9 PPM	OK			
44	7.8 PPM	OK			
45	5.5 PPM	OK			
46	3.2 PPM	OK			
47	2.2 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 7, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	3.9 PPM	OK			
49	3.2 PPM	OK			
50	2.6 PPM	OK			
51	4.8 PPM	OK			
52	1.8 PPM	OK			
53	0.9 PPM	OK			
54	2.7 PPM	OK			
55	1.0 PPM	OK			
56	1.0 PPM	OK			
57	4.0 PPM	OK			
58	2.9 PPM	OK			
59	4.2 PPM	OK			
60	11.7 PPM	OK			
61	18.2 PPM	OK			
62	4.2 PPM	OK			
63	2.4 PPM	OK			
64	2.9 PPM	OK			
65	1.6 PPM	OK			
66	1.3 PPM	OK			
67	33.6 PPM	OK			
68	1.1 PPM	OK			
69	1.0 PPM	OK			
70	1.3 PPM	OK			
71	0.7 PPM	OK			
72	3.3 PPM	OK			
73	4.5 PPM	OK			
74	25.8 PPM	OK			
75	9.8 PPM	OK			
76	51.6 PPM	OK			
77	19.8 PPM	OK			
78	8.8 PPM	OK			
79	1.7 PPM	OK			
80	2.3 PPM	OK			
81	2.6 PPM	OK			
82	3.9 PPM	OK			
83	7.7 PPM	OK			
84	1.2 PPM	OK			
85	0.3 PPM	OK			
86	0.1 PPM	OK			
87	0.1 PPM	OK			
88	0.0 PPM	OK			
89	0.2 PPM	OK			
90	0.0 PPM	OK			
91	0.7 PPM	OK			
92	0.5 PPM	OK			
93	2.5 PPM	OK			
94	1.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 7, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	5.0 PPM	OK			
96	1.7 PPM	OK			
97	7.1 PPM	OK			
98	6.8 PPM	OK			
99	2.3 PPM	OK			
100	3.0 PPM	OK			End Serpentine Route
101	208.0 PPM	OK			EW-52
102	5.2 PPM	OK			TP-4
103	205.0 PPM	OK			EW-60
104	5.8 PPM	OK			EW-48
105	1.8 PPM	OK			TP-6
106	25.8 PPM	OK			EW-61
107	1.2 PPM	OK			EW-50
108	17.2 PPM	OK			EW-67
109	2.0 PPM	OK			EW-47
110	2896.0 PPM	HIGH_ALRM	36.59859	-82.14738	EW-54
111	3.4 PPM	OK			EW-55
112	4.1 PPM	OK			EW-92
113	19.5 PPM	OK			EW-91
114	6.0 PPM	OK			EW-96
115	9.6 PPM	OK			TP-2
116	2334.0 PPM	HIGH_ALRM	36.59842	-82.14736	EW-66
117	362.0 PPM	OK			EW-58
118	20.9 PPM	OK			EW-57
119	6.5 PPM	OK			TP-1
120	18.0 PPM	OK			EW-59
121	37.8 PPM	OK			EW-100
122	4.2 PPM	OK			EW-56
123	6.1 PPM	OK			EW-97
124	15.3 PPM	OK			EW-53
125	3.8 PPM	OK			TP-3
126	8.1 PPM	OK			EW-51
127	2.5 PPM	OK			TP-5
128	1.8 PPM	OK			EW-68
129	54.6 PPM	OK			EW-87
130	1.7 PPM	OK			EW-38
131	37.9 PPM	OK			TP-7
132	4.8 PPM	OK			EW-49
133	44.5 PPM	OK			EW-83
134	3.6 PPM	OK			EW-65
135	3.2 PPM	OK			EW-81
136	2.0 PPM	OK			TP-8
137	3.0 PPM	OK			EW-64
138	1.7 PPM	OK			EW-63
139	12.6 PPM	OK			EW-42
140	155.0 PPM	OK			EW-76

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 7, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	48.9 PPM	OK			TP-9
142	2.6 PPM	OK			EW-62
143	1.6 PPM	OK			EW-74
144	1.0 PPM	OK			EW-32R
145	1.4 PPM	OK			EW-69
146	0.7 PPM	OK			EW-71
147	0.8 PPM	OK			EW-72
148	0.8 PPM	OK			EW-73
149	0.8 PPM	OK			EW-78
150	2.8 PPM	OK			EW-82
151	1.2 PPM	OK			EW-36A
152	269.0 PPM	OK			EW-85
153	242.0 PPM	OK			EW-88
154	59.8 PPM	OK			EW-89
155	4.1 PPM	OK			EW-93
156	3.6 PPM	OK			EW-94
157	2.7 PPM	OK			EW-98
158	4.1 PPM	OK			EW-99
159	92.1 PPM	OK			EW-95
160	1.8 PPM	OK			EW-90
161	233.0 PPM	OK			EW-86
162	3.7 PPM	OK			EW-84
163	16.0 PPM	OK			EW-80
164	4.2 PPM	OK			EW-79
165	6.5 PPM	OK			EW-77
166	0.9 PPM	OK			EW-33B
167	0.9 PPM	OK			EW-75

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

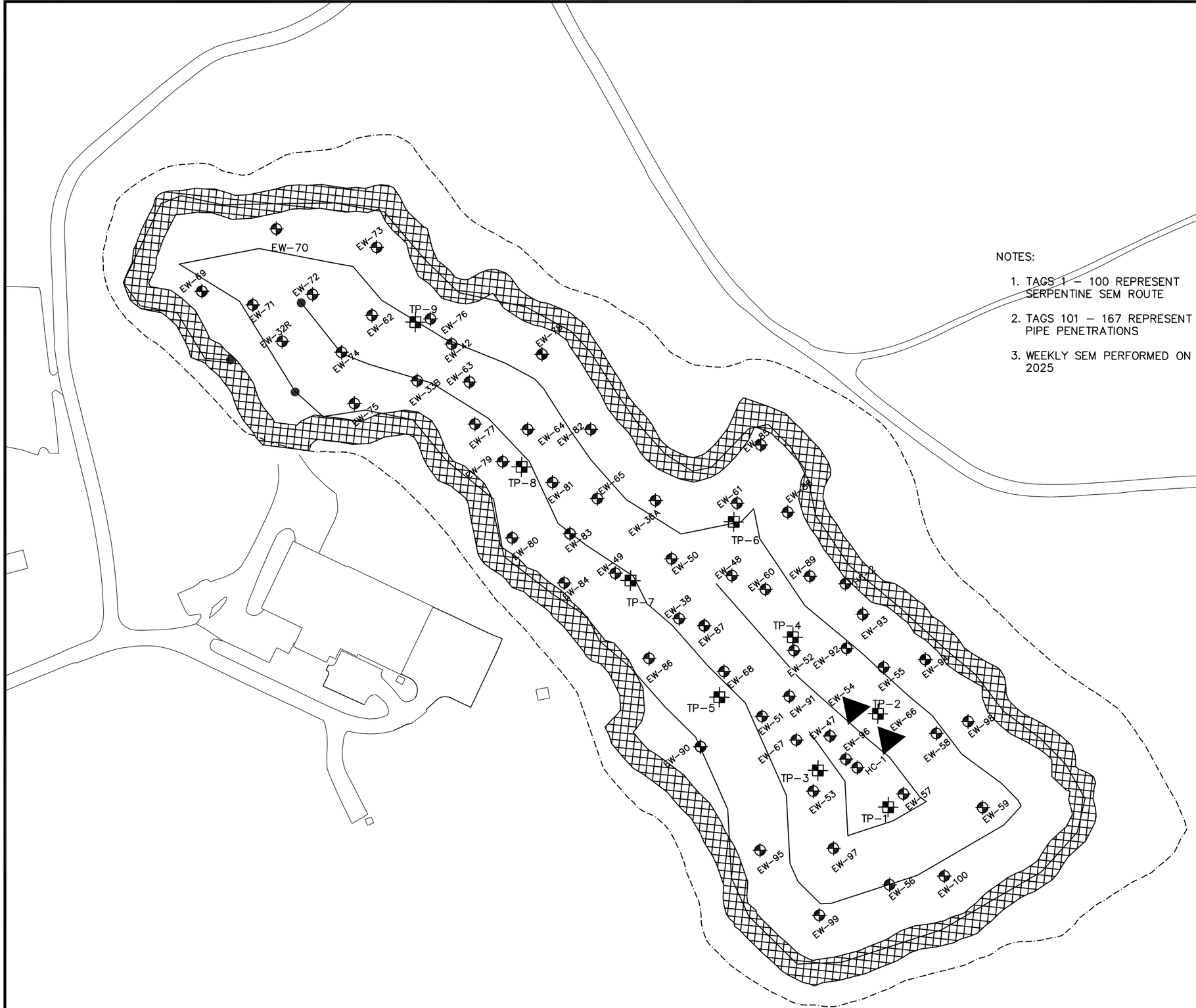
NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 167 represent SEM at Pipe Penetrations
Weather Conditions: Sunny, 35°F Wind: 3 MPH SW

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

3/7/2025	10:38	ZERO	0.1	PPM
3/7/2025	10:39	SPAN	502.0	PPM

Background Reading:

3/7/2025	10:42	Upwind	2.5	PPM
3/7/2025	10:46	Downwind	6.3	PPM



NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 167 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON MARCH 7, 2025

0 80 160 240
SCALE IN FEET

N

LEGEND

- SEM ROUTE
- GAS WELL
- TEMPERATURE PROBE
- 79 EXCEEDANCE LOCATION
- 75 MONITORING ROUTE ENDPOINT

NO.	REVISION	DATE

SHEET TITLE
SEM ROUTE WITH BUFFER AREA

PROJECT TITLE
SURFACE EMISSIONS MONITORING
SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 02218208.04
DSN. BY:
CHK. BY:
QA/QC BY:
APP. BY:

FILE: 02218208.04
DATE: 3/7/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

March 19, 2025
File No. 02218208.04

Mr. Jonathan Chapman
Enforcement Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – March 11, 2025
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Mr. Chapman:

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 March 11, 2025. 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 the Permit No. 588 Landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) 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. 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). The 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.

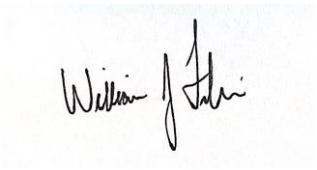
A summary of ongoing exceedance points is provided in Table 2.

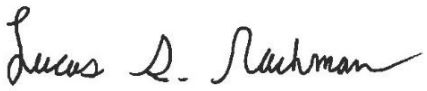
Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	3/11/25 Event	3/11/25 Event Result	Comments
EW-53	2/24/25	N/A	Passed	Requires 1-Month Retest
EW-54	2/24/25	2nd 10-Day Retest	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-66	2/24/25	2nd 10-Day Retest	Passed	Requires 1-Month Retest

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

Sincerely,





William J. Fabrie
Staff Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WJF

cc: Randall Eads, City of Bristol
Jonathan Hayes, City of Bristol
Laura Socia, City of Bristol
Susan “Tracey” Blalock, VDEQ

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 11, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	2.6 PPM	OK			Start Serpentine Route
2	1.8 PPM	OK			
3	1.0 PPM	OK			
4	1.0 PPM	OK			
5	1.0 PPM	OK			
6	1.1 PPM	OK			
7	0.9 PPM	OK			
8	0.9 PPM	OK			
9	0.9 PPM	OK			
10	0.8 PPM	OK			
11	0.8 PPM	OK			
12	0.7 PPM	OK			
13	0.9 PPM	OK			
14	1.2 PPM	OK			
15	0.9 PPM	OK			
16	1.0 PPM	OK			
17	1.0 PPM	OK			
18	1.1 PPM	OK			
19	11.2 PPM	OK			
20	1.0 PPM	OK			
21	1.2 PPM	OK			
22	12.7 PPM	OK			
23	3.8 PPM	OK			
24	1.2 PPM	OK			
25	3.0 PPM	OK			
26	1.2 PPM	OK			
27	1.3 PPM	OK			
28	2.0 PPM	OK			
29	2.5 PPM	OK			
30	19.5 PPM	OK			
31	6.2 PPM	OK			
32	28.2 PPM	OK			
33	98.6 PPM	OK			
34	15.3 PPM	OK			
35	3.3 PPM	OK			
36	3.4 PPM	OK			
37	12.7 PPM	OK			
38	1.7 PPM	OK			
39	3.2 PPM	OK			
40	3.4 PPM	OK			
41	1.4 PPM	OK			
42	2.4 PPM	OK			
43	1.1 PPM	OK			
44	1.0 PPM	OK			
45	1.4 PPM	OK			
46	0.8 PPM	OK			
47	1.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 11, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	1.3 PPM	OK			
49	1.1 PPM	OK			
50	0.9 PPM	OK			
51	0.5 PPM	OK			
52	1.9 PPM	OK			
53	0.6 PPM	OK			
54	0.6 PPM	OK			
55	6.8 PPM	OK			
56	1.0 PPM	OK			
57	0.5 PPM	OK			
58	1.3 PPM	OK			
59	1.4 PPM	OK			
60	0.6 PPM	OK			
61	0.5 PPM	OK			
62	3.1 PPM	OK			
63	0.4 PPM	OK			
64	0.7 PPM	OK			
65	0.7 PPM	OK			
66	0.5 PPM	OK			
67	1.3 PPM	OK			
68	10.3 PPM	OK			
69	9.0 PPM	OK			
70	7.6 PPM	OK			
71	1.0 PPM	OK			
72	1.1 PPM	OK			
73	31.9 PPM	OK			
74	1.9 PPM	OK			
75	1.1 PPM	OK			
76	1.3 PPM	OK			
77	1.2 PPM	OK			
78	1.3 PPM	OK			
79	0.6 PPM	OK			
80	0.6 PPM	OK			
81	1.7 PPM	OK			
82	0.8 PPM	OK			
83	0.1 PPM	OK			
84	0.9 PPM	OK			
85	1.5 PPM	OK			
86	0.9 PPM	OK			
87	1.1 PPM	OK			
88	0.4 PPM	OK			
89	0.0 PPM	OK			
90	0.9 PPM	OK			
91	0.1 PPM	OK			
92	0.1 PPM	OK			
93	0.2 PPM	OK			
94	10.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 11, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	7.0 PPM	OK			
96	0.8 PPM	OK			
97	1.6 PPM	OK			
98	10.4 PPM	OK			
99	1.1 PPM	OK			
100	0.7 PPM	OK			End Serpentine Route
101	191.0 PPM	OK			EW-52
102	19.2 PPM	OK			TP-4
103	310.0 PPM	OK			EW-60
104	1.7 PPM	OK			EW-48
105	47.8 PPM	OK			TP-6
106	4.7 PPM	OK			EW-61
107	0.4 PPM	OK			EW-50
108	844.0 PPM	HIGH_ALRM	36.59866	-82.14775	EW-67
109	1.3 PPM	OK			EW-47
110	2730.0 PPM	HIGH_ALRM	36.59859	-82.14738	EW-54
111	1.2 PPM	OK			EW-55
112	0.8 PPM	OK			EW-92
113	15.3 PPM	OK			EW-91
114	1.0 PPM	OK			EW-96
115	0.4 PPM	OK			TP-2
116	74.8 PPM	OK			EW-66
117	2.2 PPM	OK			EW-58
118	29.7 PPM	OK			EW-57
119	0.9 PPM	OK			TP-1
120	23.1 PPM	OK			EW-59
121	1.8 PPM	OK			EW-100
122	10.6 PPM	OK			EW-56
123	0.7 PPM	OK			EW-97
124	95.7 PPM	OK			EW-53
125	2.6 PPM	OK			TP-3
126	22.9 PPM	OK			EW-51
127	2.2 PPM	OK			TP-5
128	1.7 PPM	OK			EW-68
129	5.1 PPM	OK			EW-87
130	1.4 PPM	OK			EW-38
131	4.1 PPM	OK			TP-7
132	0.6 PPM	OK			EW-49
133	0.7 PPM	OK			EW-83
134	0.6 PPM	OK			EW-65
135	0.3 PPM	OK			EW-81
136	4.2 PPM	OK			TP-8
137	1.0 PPM	OK			EW-64
138	3.5 PPM	OK			EW-63
139	67.4 PPM	OK			EW-42
140	1.8 PPM	OK			EW-76

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 11, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	3.2 PPM	OK			TP-9
142	0.7 PPM	OK			EW-62
143	0.7 PPM	OK			EW-74
144	0.0 PPM	OK			EW-32R
145	0.0 PPM	OK			EW-69
146	0.0 PPM	OK			EW-71
147	0.0 PPM	OK			EW-72
148	0.0 PPM	OK			EW-73
149	0.1 PPM	OK			EW-78
150	69.1 PPM	OK			EW-82
151	0.4 PPM	OK			EW-36A
152	10.2 PPM	OK			EW-85
153	18.9 PPM	OK			EW-88
154	282.0 PPM	OK			EW-89
155	4.3 PPM	OK			EW-93
156	1.6 PPM	OK			EW-94
157	0.2 PPM	OK			EW-98
158	0.5 PPM	OK			EW-99
159	20.4 PPM	OK			EW-95
160	20.3 PPM	OK			EW-90
161	0.8 PPM	OK			EW-86
162	128.0 PPM	OK			EW-84
163	1.6 PPM	OK			EW-80
164	0.0 PPM	OK			EW-79
165	0.0 PPM	OK			EW-77
166	0.7 PPM	OK			EW-33B
167	6.7 PPM	OK			EW-75

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, 62°F Wind: 5 MPH SW

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

3/11/2025	10:51	ZERO	0.0	PPM
3/11/2025	10:53	SPAN	500.0	PPM

Background Reading:

3/11/2025	10:55	Upwind	1.9	PPM
3/11/2025	11:05	Downwind	8.5	PPM

NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 167 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON MARCH 11, 2025

EW-70 EW-73 EW-69 EW-71 EW-72 EW-32R TP-9 EW-62 EW-76 EW-74 EW-42 EW-63 EW-33B EW-75 EW-77 EW-64 EW-82 EW-85 EW-79 TP-8 EW-81 EW-65 EW-36A EW-61 EW-83 TP-6 EW-80 EW-49 EW-50 EW-48 EW-60 EW-89 EW-84 TP-7 EW-38 EW-87 TP-4 EW-93 EW-52 EW-92 EW-55 EW-86 EW-68 TP-5 EW-91 EW-54 TP-2 EW-51 EW-47 EW-96 EW-66 EW-67 EW-90 HC-1 EW-58 EW-98 TP-3 EW-53 EW-57 TP-1 EW-59 EW-95 EW-97 EW-56 EW-100 EW-99

0 80 160 240
SCALE IN FEET

N

LEGEND

- SEM ROUTE
- GAS WELL
- TEMPERATURE PROBE
- 79 EXCEEDANCE LOCATION
- 75 MONITORING ROUTE ENDPOINT

NO.	REVISION	DATE

SHEET TITLE
SEM ROUTE WITH BUFFER AREA

PROJECT TITLE
SURFACE EMISSIONS MONITORING
SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 02218208.04 | DSN. BY: | CHK. BY: | QA/QC BY: | APP. BY:

FILE: 02218208.04

DATE: 3/11/25

SCALE: AS SHOWN

DRAWING NO. 1 of 1

March 26, 2025
File No. 02218208.04

Mr. Jonathan Chapman
Enforcement Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – March 17, 2025
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Mr. Chapman:

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 March 17, 2025. 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 the Permit No. 588 Landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) 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. 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). The 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	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	3/17/25 Event	3/17/25 Event Result	Comments
EW-54	2/24/25	N/A	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-66	2/24/25	2nd 10-Day Retest	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-53	2/24/25	N/A	Passed	Requires 1-Month Retest
EW-67	3/11/25	10-Day Retest	Passed	Requires 1-Month Retest

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

Sincerely,

Wylie R Hicklin
Associate Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: Randall Eads, City of Bristol
Jonathan Hayes, City of Bristol
Laura Socia, City of Bristol
Susan “Tracey” Blalock, VDEQ

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 17, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	2.7 PPM	OK			Start Serpentine Route
2	2.7 PPM	OK			
3	11.8 PPM	OK			
4	2.6 PPM	OK			
5	2.3 PPM	OK			
6	2.4 PPM	OK			
7	2.5 PPM	OK			
8	2.1 PPM	OK			
9	2.0 PPM	OK			
10	6.9 PPM	OK			
11	1.9 PPM	OK			
12	3.2 PPM	OK			
13	1.8 PPM	OK			
14	1.7 PPM	OK			
15	2.6 PPM	OK			
16	1.8 PPM	OK			
17	1.6 PPM	OK			
18	1.7 PPM	OK			
19	1.8 PPM	OK			
20	1.8 PPM	OK			
21	2.6 PPM	OK			
22	60.6 PPM	OK			
23	2.1 PPM	OK			
24	2.2 PPM	OK			
25	60.8 PPM	OK			
26	2.5 PPM	OK			
27	1.8 PPM	OK			
28	2.9 PPM	OK			
29	4.4 PPM	OK			
30	1.7 PPM	OK			
31	1.7 PPM	OK			
32	1.2 PPM	OK			
33	1.9 PPM	OK			
34	37.1 PPM	OK			
35	3.3 PPM	OK			
36	7.3 PPM	OK			
37	49.9 PPM	OK			
38	22.1 PPM	OK			
39	179.0 PPM	OK			
40	163.0 PPM	OK			
41	148.0 PPM	OK			
42	28.4 PPM	OK			
43	16.3 PPM	OK			
44	2.9 PPM	OK			
45	29.9 PPM	OK			
46	5.3 PPM	OK			
47	2.6 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 17, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	2.0 PPM	OK			
49	1.1 PPM	OK			
50	1.1 PPM	OK			
51	4.5 PPM	OK			
52	2.0 PPM	OK			
53	0.7 PPM	OK			
54	2.3 PPM	OK			
55	0.5 PPM	OK			
56	0.4 PPM	OK			
57	0.4 PPM	OK			
58	0.4 PPM	OK			
59	0.4 PPM	OK			
60	0.3 PPM	OK			
61	0.3 PPM	OK			
62	0.3 PPM	OK			
63	0.3 PPM	OK			
64	0.3 PPM	OK			
65	0.2 PPM	OK			
66	0.2 PPM	OK			
67	0.2 PPM	OK			
68	0.4 PPM	OK			
69	5.6 PPM	OK			
70	1.0 PPM	OK			
71	7.2 PPM	OK			
72	2.6 PPM	OK			
73	2.4 PPM	OK			
74	1.8 PPM	OK			
75	25.2 PPM	OK			
76	7.9 PPM	OK			
77	3.3 PPM	OK			
78	5.7 PPM	OK			
79	13.9 PPM	OK			
80	7.3 PPM	OK			
81	14.5 PPM	OK			
82	4.7 PPM	OK			
83	10.5 PPM	OK			
84	1.9 PPM	OK			
85	4.1 PPM	OK			
86	1.1 PPM	OK			
87	1.3 PPM	OK			
88	2.4 PPM	OK			
89	2.5 PPM	OK			
90	0.6 PPM	OK			
91	0.8 PPM	OK			
92	3.5 PPM	OK			
93	0.9 PPM	OK			
94	2.5 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 17, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	96.5 PPM	OK			
96	5.2 PPM	OK			
97	16.8 PPM	OK			
98	12.4 PPM	OK			
99	4.8 PPM	OK			
100	10.8 PPM	OK			End Serpentine Route
101	71.1 PPM	OK			EW-52
102	8.8 PPM	OK			TP-4
103	86.9 PPM	OK			EW-60
104	6.8 PPM	OK			EW-48
105	10.9 PPM	OK			TP-6
106	3.7 PPM	OK			EW-61
107	0.8 PPM	OK			EW-50
108	65.3 PPM	OK			EW-67
109	8.2 PPM	OK			EW-47
110	634.0 PPM	HIGH_ALRM	36.59859	-82.14738	EW-54
111	6.5 PPM	OK			EW-55
112	5.8 PPM	OK			EW-92
113	180.0 PPM	OK			EW-91
114	4.3 PPM	OK			EW-96
115	12.6 PPM	OK			TP-2
116	3382.0 PPM	HIGH_ALRM	36.59842	-82.14736	EW-66
117	216.0 PPM	OK			EW-58
118	17.1 PPM	OK			EW-57
119	3.6 PPM	OK			TP-1
120	41.1 PPM	OK			EW-59
121	22.6 PPM	OK			EW-100
122	1.7 PPM	OK			EW-56
123	6.2 PPM	OK			EW-97
124	181.0 PPM	OK			EW-53
125	1.5 PPM	OK			TP-3
126	2.5 PPM	OK			EW-51
127	1.7 PPM	OK			TP-5
128	1.7 PPM	OK			EW-68
129	2.2 PPM	OK			EW-87
130	39.8 PPM	OK			EW-38
131	1.9 PPM	OK			TP-7
132	1122.0 PPM	HIGH_ALRM	36.59978	-82.14805	EW-49
133	28.9 PPM	OK			EW-83
134	268.0 PPM	OK			EW-65
135	1.1 PPM	OK			EW-81
136	0.7 PPM	OK			TP-8
137	0.8 PPM	OK			EW-64
138	0.5 PPM	OK			EW-63
139	0.1 PPM	OK			EW-42
140	251.0 PPM	OK			EW-76

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 17, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	1.3 PPM	OK			TP-9
142	0.4 PPM	OK			EW-62
143	0.4 PPM	OK			EW-74
144	0.2 PPM	OK			EW-32R
145	0.1 PPM	OK			EW-69
146	0.0 PPM	OK			EW-71
147	0.0 PPM	OK			EW-72
148	1.2 PPM	OK			EW-73
149	0.1 PPM	OK			EW-78
150	104.0 PPM	OK			EW-82
151	0.1 PPM	OK			EW-36A
152	733.0 PPM	HIGH_ALRM	36.59986	-82.14694	EW-85
153	87.5 PPM	OK			EW-88
154	209.0 PPM	OK			EW-89
155	2.2 PPM	OK			EW-93
156	1.2 PPM	OK			EW-94
157	1.6 PPM	OK			EW-98
158	27.1 PPM	OK			EW-99
159	25.6 PPM	OK			EW-95
160	1.6 PPM	OK			EW-90
161	94.4 PPM	OK			EW-86
162	13.6 PPM	OK			EW-84
163	1.9 PPM	OK			EW-80
164	1.1 PPM	OK			EW-79
165	2.5 PPM	OK			EW-77
166	1.0 PPM	OK			EW-33B
167	7.7 PPM	OK			EW-75

Number of locations sampled:	167
Number of exceedance locations:	4

NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 167 represent SEM at Pipe Penetrations
Weather Conditions: Overcast, 41°F Wind: 8 MPH S

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

3/17/2025	9:42	ZERO	0.3	PPM
3/17/2025	9:43	SPAN	501.0	PPM

Background Reading:

3/17/2025	9:56	Upwind	2.5	PPM
3/17/2025	9:57	Downwind	8.3	PPM

NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 167 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON MARCH 17, 2025

EW-70 EW-73 EW-69 EW-71 EW-72 EW-32R TP-9 EW-62 EW-76 EW-74 EW-42 EW-43 EW-33B EW-63 EW-75 EW-77 EW-64 EW-82 EW-79 TP-8 EW-81 EW-65 EW-36A EW-61 EW-85 TP-6 EW-80 EW-83 EW-49 EW-50 EW-48 EW-60 EW-89 EW-84 TP-7 EW-38 EW-87 TP-4 EW-93 EW-52 EW-92 EW-86 EW-68 EW-55 EW-94 TP-5 EW-91 EW-54 TP-2 EW-51 EW-47 EW-66 EW-98 EW-67 EW-96 EW-58 EW-90 HC-1 TP-3 EW-53 EW-57 TP-1 EW-59 EW-95 EW-97 EW-56 EW-100 EW-99

0 80 160 240
SCALE IN FEET

N

LEGEND

- SEM ROUTE
- GAS WELL
- TEMPERATURE PROBE
- 79 EXCEEDANCE LOCATION
- 75 MONITORING ROUTE ENDPOINT

NO.	REVISION	DATE

SHEET TITLE
SEM ROUTE WITH BUFFER AREA

PROJECT TITLE
SURFACE EMISSIONS MONITORING SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 02218208.04
DSN. BY:
CHK. BY:
QA/QC BY:
APP. BY:

FILE: 02218208.04
DATE: 3/17/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

April 2, 2025
File No. 02218208.04

Mr. Jonathan Chapman
Enforcement Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – March 27, 2025
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Mr. Chapman:

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 March 27, 2025. 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 the Permit No. 588 Landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) 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. 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). The 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	6
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	6

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	3/27/25 Event	3/27/25 Event Result	Comments
EW-54	2/24/25	N/A	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-66	2/24/25	N/A	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-53	2/24/25	1-Month Retest	Failed	Requires 1-Month Retest Follow-Up
EW-67	3/11/25	N/A	Passed	Requires 1-Month Retest
EW-49	3/17/25	10-Day Retest	Passed	Requires 1-Month Retest
EW-85	3/17/25	10-Day Retest	Passed	Requires 1-Month Retest

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

Sincerely,

Wylie R Hicklin
Associate Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: Randall Eads, City of Bristol
Jonathan Hayes, City of Bristol
Laura Socia, City of Bristol
Susan “Tracey” Blalock, VDEQ

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 27, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	2.6 PPM	OK			Start Serpentine Route
2	12.3 PPM	OK			
3	1.3 PPM	OK			
4	1.6 PPM	OK			
5	1.8 PPM	OK			
6	6.6 PPM	OK			
7	4.0 PPM	OK			
8	1.6 PPM	OK			
9	5.2 PPM	OK			
10	1.4 PPM	OK			
11	14.4 PPM	OK			
12	2.6 PPM	OK			
13	3.3 PPM	OK			
14	5.1 PPM	OK			
15	1.2 PPM	OK			
16	1.0 PPM	OK			
17	2.8 PPM	OK			
18	1.3 PPM	OK			
19	7.3 PPM	OK			
20	18.0 PPM	OK			
21	1.3 PPM	OK			
22	1.2 PPM	OK			
23	0.9 PPM	OK			
24	0.8 PPM	OK			
25	1.1 PPM	OK			
26	2.0 PPM	OK			
27	94.8 PPM	OK			
28	33.4 PPM	OK			
29	33.3 PPM	OK			
30	231.0 PPM	OK			
31	22.4 PPM	OK			
32	2.1 PPM	OK			
33	1.5 PPM	OK			
34	2.0 PPM	OK			
35	1.5 PPM	OK			
36	3.5 PPM	OK			
37	1.5 PPM	OK			
38	1.8 PPM	OK			
39	4.2 PPM	OK			
40	2.2 PPM	OK			
41	1.3 PPM	OK			
42	1.2 PPM	OK			
43	1.3 PPM	OK			
44	0.6 PPM	OK			
45	1.4 PPM	OK			
46	0.6 PPM	OK			
47	0.9 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 27, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	0.5 PPM	OK			
49	0.7 PPM	OK			
50	0.6 PPM	OK			
51	0.7 PPM	OK			
52	0.6 PPM	OK			
53	0.5 PPM	OK			
54	0.4 PPM	OK			
55	3.7 PPM	OK			
56	2.5 PPM	OK			
57	0.6 PPM	OK			
58	0.7 PPM	OK			
59	0.8 PPM	OK			
60	1.5 PPM	OK			
61	9.1 PPM	OK			
62	21.3 PPM	OK			
63	11.6 PPM	OK			
64	10.2 PPM	OK			
65	13.7 PPM	OK			
66	5.0 PPM	OK			
67	1.0 PPM	OK			
68	0.5 PPM	OK			
69	0.7 PPM	OK			
70	14.1 PPM	OK			
71	13.8 PPM	OK			
72	0.6 PPM	OK			
73	5.8 PPM	OK			
74	1.3 PPM	OK			
75	1.7 PPM	OK			
76	2.0 PPM	OK			
77	0.6 PPM	OK			
78	1.0 PPM	OK			
79	0.9 PPM	OK			
80	0.5 PPM	OK			
81	0.7 PPM	OK			
82	0.5 PPM	OK			
83	0.5 PPM	OK			
84	0.2 PPM	OK			
85	0.5 PPM	OK			
86	0.6 PPM	OK			
87	0.4 PPM	OK			
88	0.3 PPM	OK			
89	1.6 PPM	OK			
90	3.9 PPM	OK			
91	1.5 PPM	OK			
92	8.5 PPM	OK			
93	5.3 PPM	OK			
94	1.3 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 27, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	1.6 PPM	OK			
96	0.3 PPM	OK			
97	0.6 PPM	OK			
98	0.9 PPM	OK			
99	0.5 PPM	OK			
100	0.1 PPM	OK			End Serpentine Route
101	0.2 PPM	OK			EW-69
102	0.2 PPM	OK			EW-71
103	0.1 PPM	OK			EW-72
104	0.3 PPM	OK			EW-32R
105	2.2 PPM	OK			EW-74
106	1.0 PPM	OK			EW-62
107	0.1 PPM	OK			EW-33B
108	0.5 PPM	OK			EW-63
109	0.1 PPM	OK			EW-77
110	1.0 PPM	OK			EW-64
111	1.6 PPM	OK			EW-79
112	1.8 PPM	OK			TP-8
113	0.0 PPM	OK			EW-81
114	0.9 PPM	OK			EW-80
115	0.8 PPM	OK			EW-84
116	0.3 PPM	OK			EW-83
117	0.0 PPM	OK			EW-65
118	0.0 PPM	OK			EW-49
119	11.1 PPM	OK			TP-7
120	0.1 PPM	OK			EW-50
121	58.7 PPM	OK			TP-6
122	9.8 PPM	OK			EW-61
123	22.1 PPM	OK			EW-85
124	237.0 PPM	OK			EW-88
125	0.2 PPM	OK			EW-48
126	0.6 PPM	OK			EW-87
127	0.0 PPM	OK			EW-38
128	9.5 PPM	OK			EW-86
129	0.0 PPM	OK			TP-5
130	0.0 PPM	OK			EW-68
131	4.3 PPM	OK			EW-90
132	4.5 PPM	OK			EW-51
133	2.9 PPM	OK			EW-91
134	730.0 PPM	HIGH_ALRM	36.59900	-82.14749	EW-52
135	1.1 PPM	OK			TP-4
136	195.0 PPM	OK			EW-89
137	2.6 PPM	OK			EW-93
138	16.8 PPM	OK			EW-92
139	3.9 PPM	OK			EW-94
140	1.1 PPM	OK			EW-55

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - MARCH 27, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	865.0 PPM	HIGH_ALRM	36.59859	-82.14738	EW-54
142	24.7 PPM	OK			TP-2
143	0.6 PPM	OK			EW-47
144	73.8 PPM	OK			EW-67
145	0.8 PPM	OK			TP-3
146	2270.0 PPM	HIGH_ALRM	36.59842	-82.14789	EW-53
147	3.7 PPM	OK			EW-96
148	1662.0 PPM	HIGH_ALRM	36.59842	-82.14736	EW-66
149	2.0 PPM	OK			EW-58
150	5.9 PPM	OK			EW-98
151	36.5 PPM	OK			EW-57
152	5.8 PPM	OK			TP-1
153	80.7 PPM	OK			EW-95
154	1.3 PPM	OK			EW-99
155	0.7 PPM	OK			EW-97
156	1.9 PPM	OK			EW-56
157	1.0 PPM	OK			EW-100
158	7.3 PPM	OK			EW-59
159	0.8 PPM	OK			EW-36A
160	4353.0 PPM	HIGH_ALRM	36.60038	-82.14767	EW-82
161	9.5 PPM	OK			EW-78
162	1.9 PPM	OK			EW-42
163	52.5 PPM	OK			EW-76
164	39.4 PPM	OK			TP-9
165	1.1 PPM	OK			EW-73
166	0.3 PPM	OK			EW-70
167	1240.0 PPM	HIGH_ALRM	36.60113	-82.14867	EW-75

Number of locations sampled:	167
Number of exceedance locations:	6

NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 167 represent SEM at Pipe Penetrations
Weather Conditions: Sunny, 54°F Wind: 3 MPH E

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

3/27/2025	9:30	ZERO	0.1	PPM
3/27/2025	9:32	SPAN	499.0	PPM

Background Reading:

3/27/2025	9:38	Upwind	1.7	PPM
3/27/2025	9:41	Downwind	1.6	PPM

NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 167 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON MARCH 27, 2025

EW-70 EW-73 EW-69 EW-71 EW-72 EW-32R EW-62 TP-9 EW-76 EW-74 EW-42 EW-43 EW-33B EW-63 EW-75 EW-77 EW-64 EW-82 EW-79 TP-8 EW-81 EW-65 EW-85 EW-36A EW-61 EW-83 TP-6 EW-80 EW-49 EW-50 EW-48 EW-60 EW-89 EW-84 TP-7 EW-38 EW-87 TP-4 EW-93 EW-52 EW-92 EW-55 EW-86 EW-68 TP-5 EW-54 TP-2 EW-51 EW-91 EW-47 EW-66 EW-67 EW-96 HC-1 EW-58 EW-98 TP-3 EW-53 EW-57 TP-1 EW-59 EW-90 EW-95 EW-97 EW-56 EW-100 EW-99

0 80 160 240
SCALE IN FEET

N

LEGEND

- SEM ROUTE
- GAS WELL
- TEMPERATURE PROBE
- 79 EXCEEDANCE LOCATION
- 75 MONITORING ROUTE ENDPOINT

NO.	REVISION	DATE

SHEET TITLE
SEM ROUTE WITH BUFFER AREA

PROJECT TITLE
SURFACE EMISSIONS MONITORING
SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 02218208.04 | DSN. BY: | CHK. BY: | QA/QC BY: | APP. BY:
DSN. BY:

FILE: 02218208.04
DATE: 3/27/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

Appendix B

In-Waste Temperatures on Select Days in February

Appendix B Figures

Figure B - 1 Average Temperatures Recorded by TP-1 on March 5, 2025

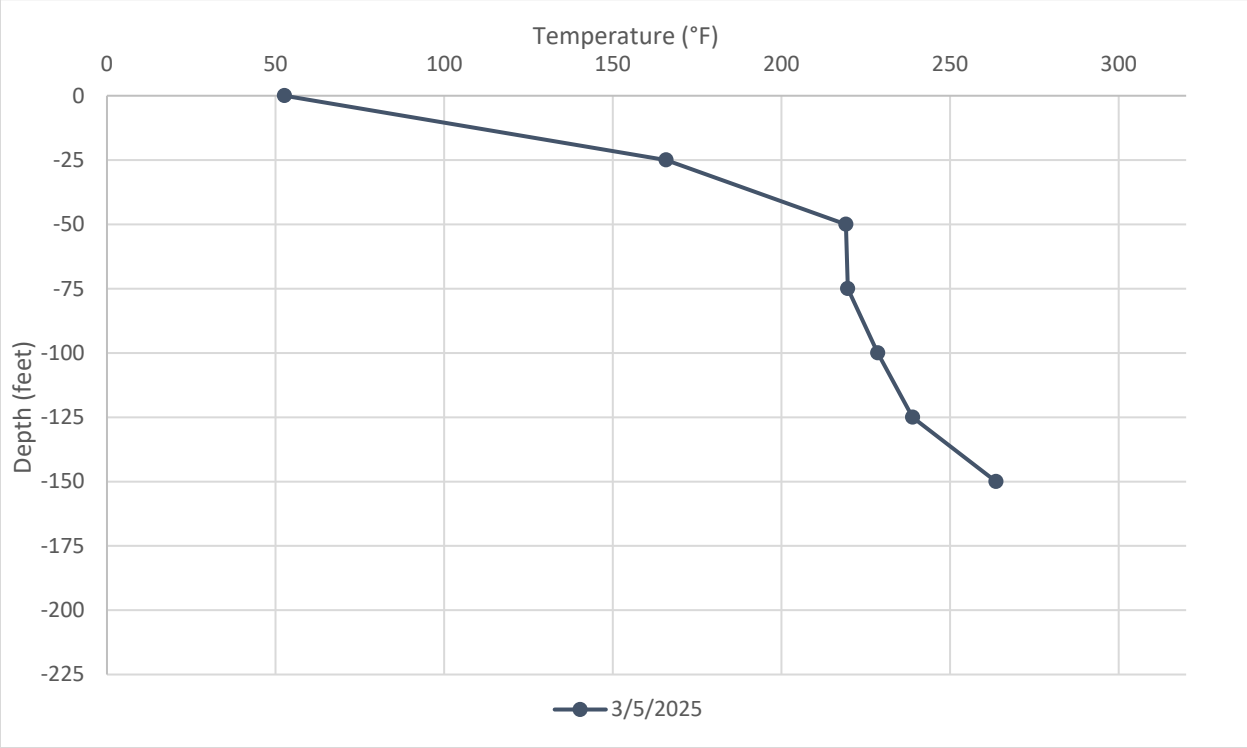


Figure B - 2 Average Temperatures Recorded by TP-1 on March 12, 2025

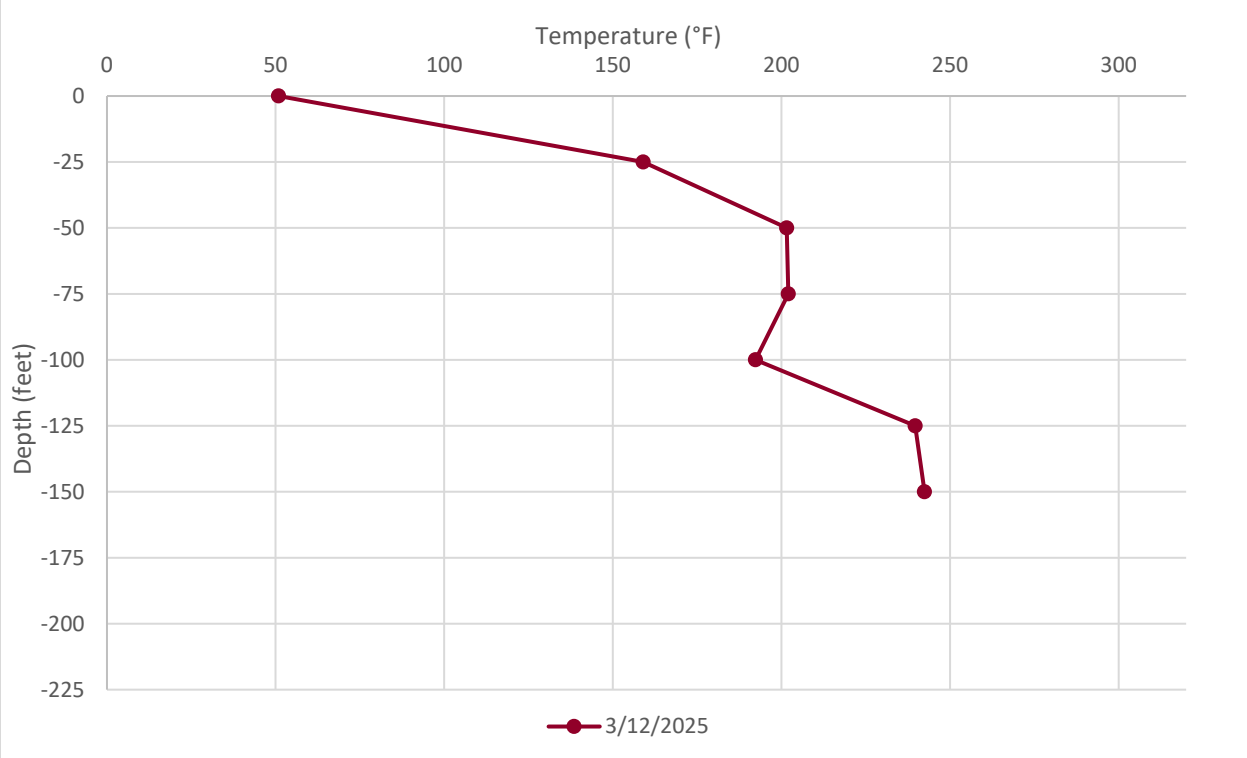


Figure B - 3 Average Temperatures Recorded by TP-1 on *March 19, 2025*

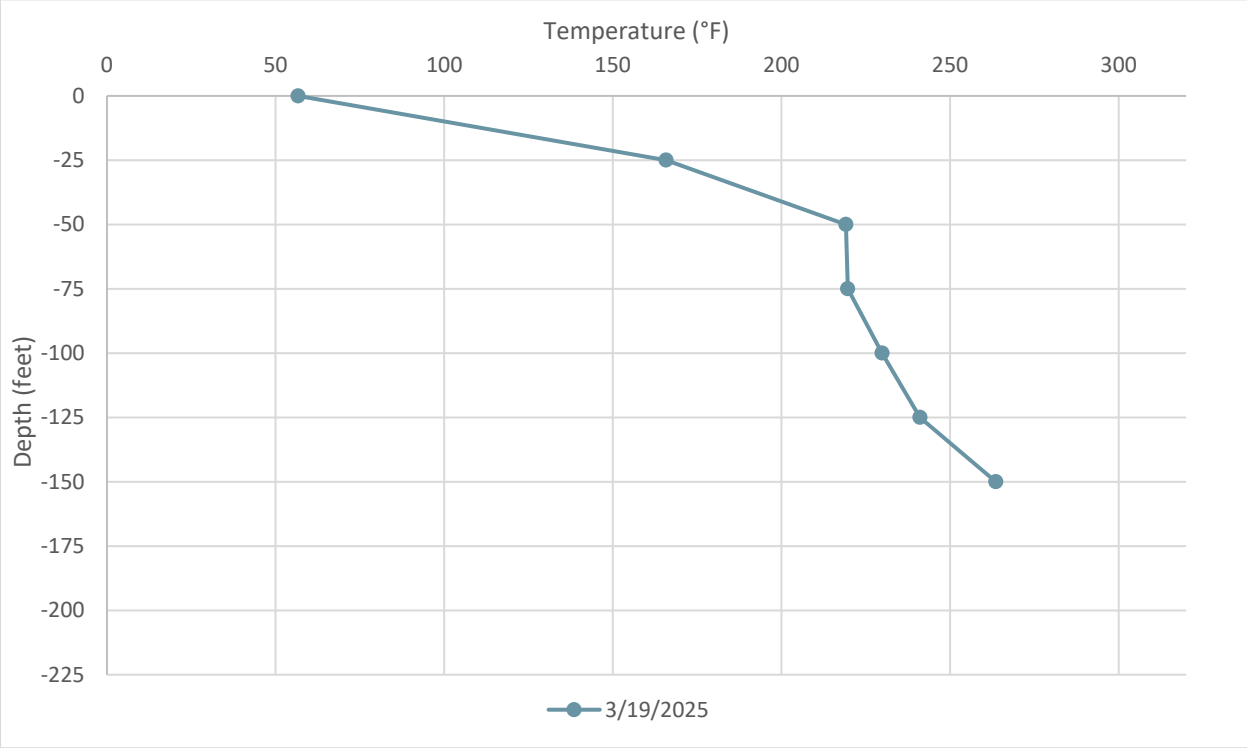


Figure B - 4 Average Temperatures Recorded by TP-1 on March 26, 2025

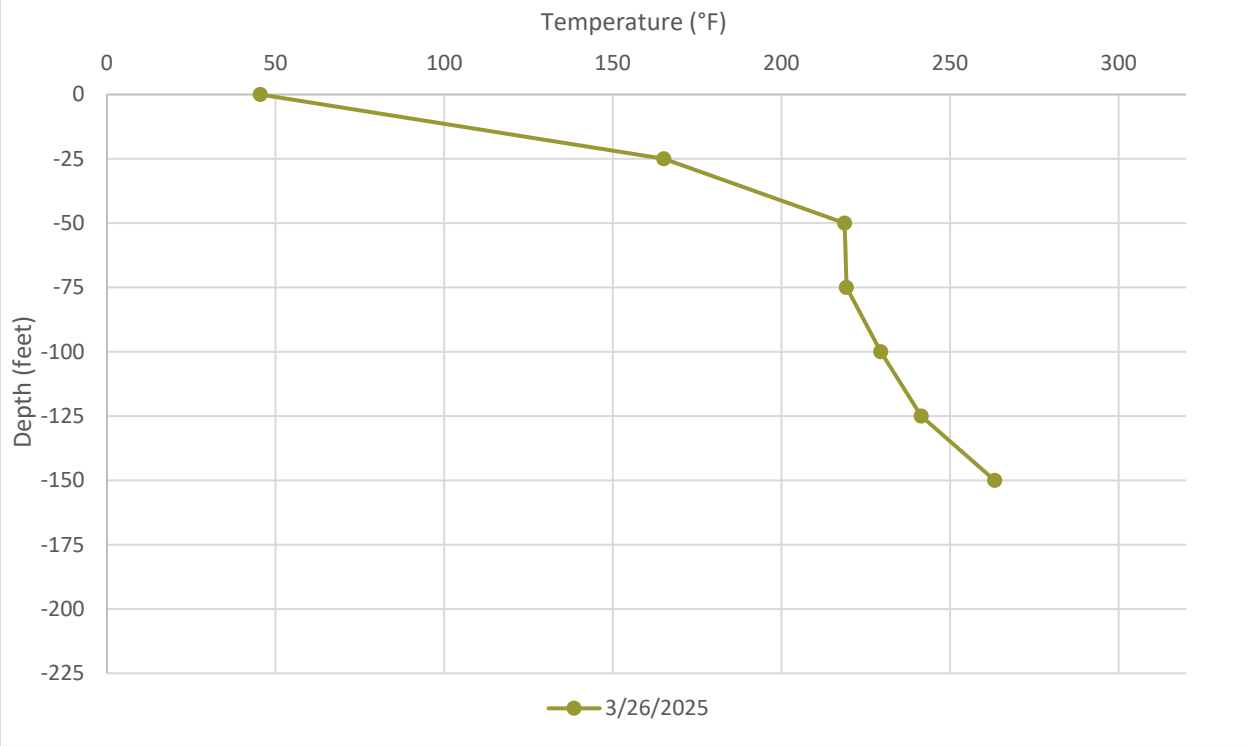


Figure B - 5 Average Temperatures Recorded by TP-3 on March 5, 2025

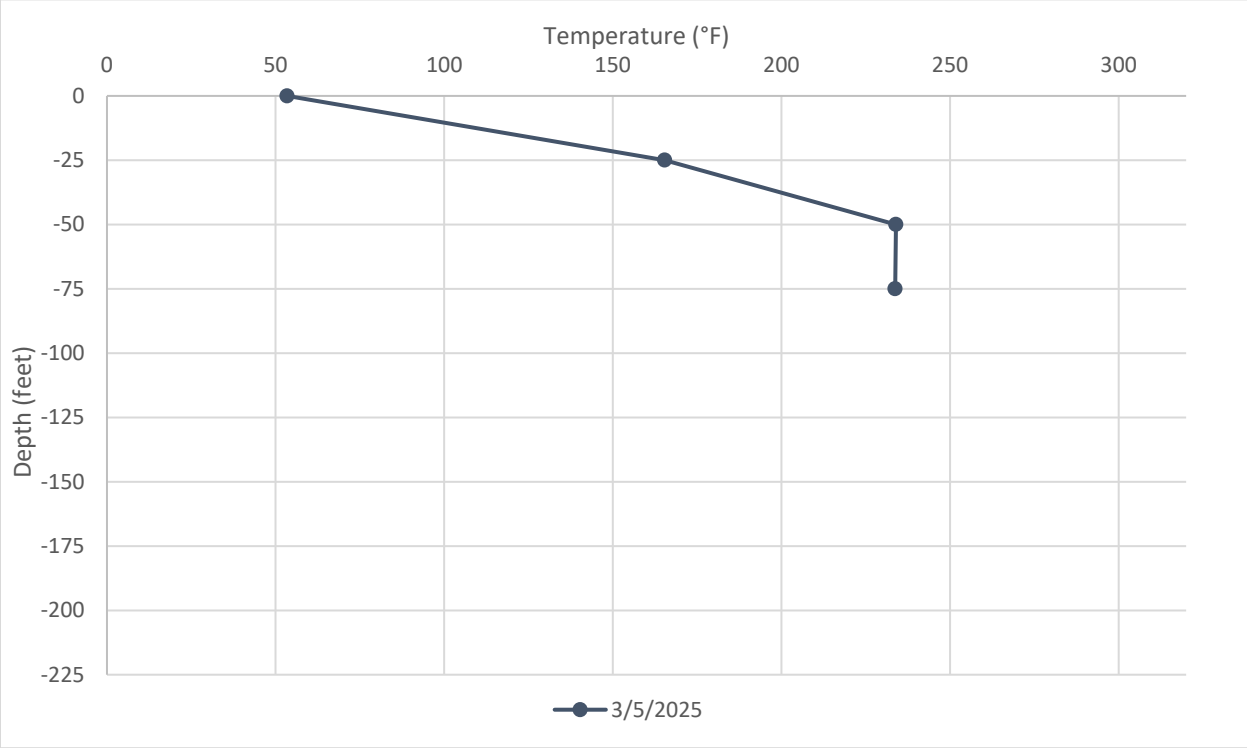


Figure B - 6 Average Temperatures Recorded by TP-3 on March 12, 2025

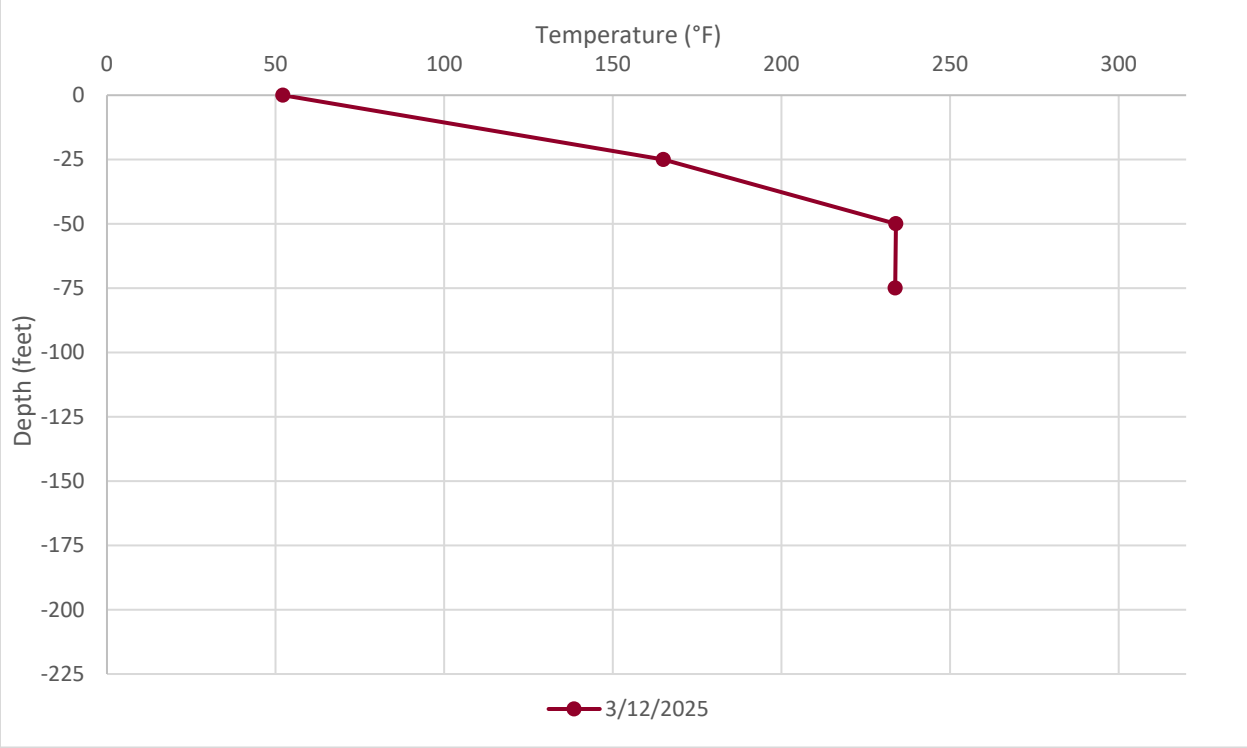


Figure B - 7 Average Temperatures Recorded by TP-3 on March 19, 2025

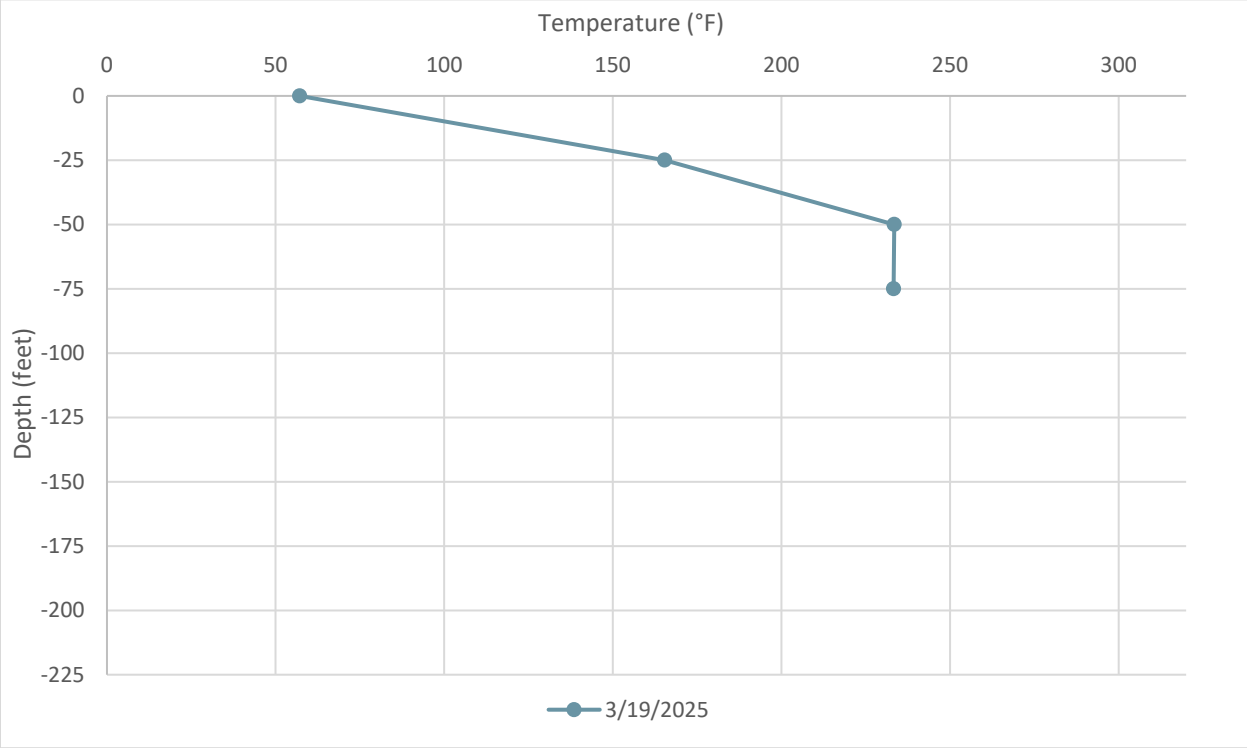


Figure B - 8 Average Temperatures Recorded by TP-3 on March 26, 2025

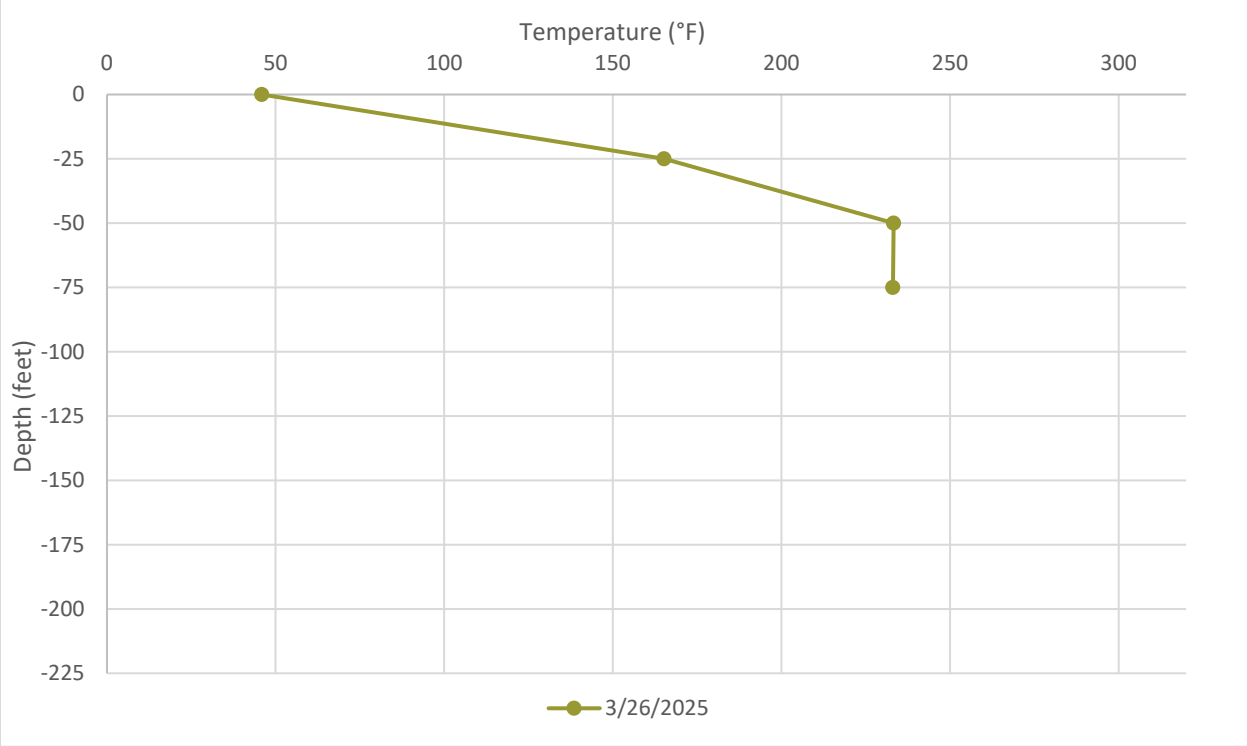


Figure B - 9 Average Temperatures Recorded by TP-5 on March 5, 2025

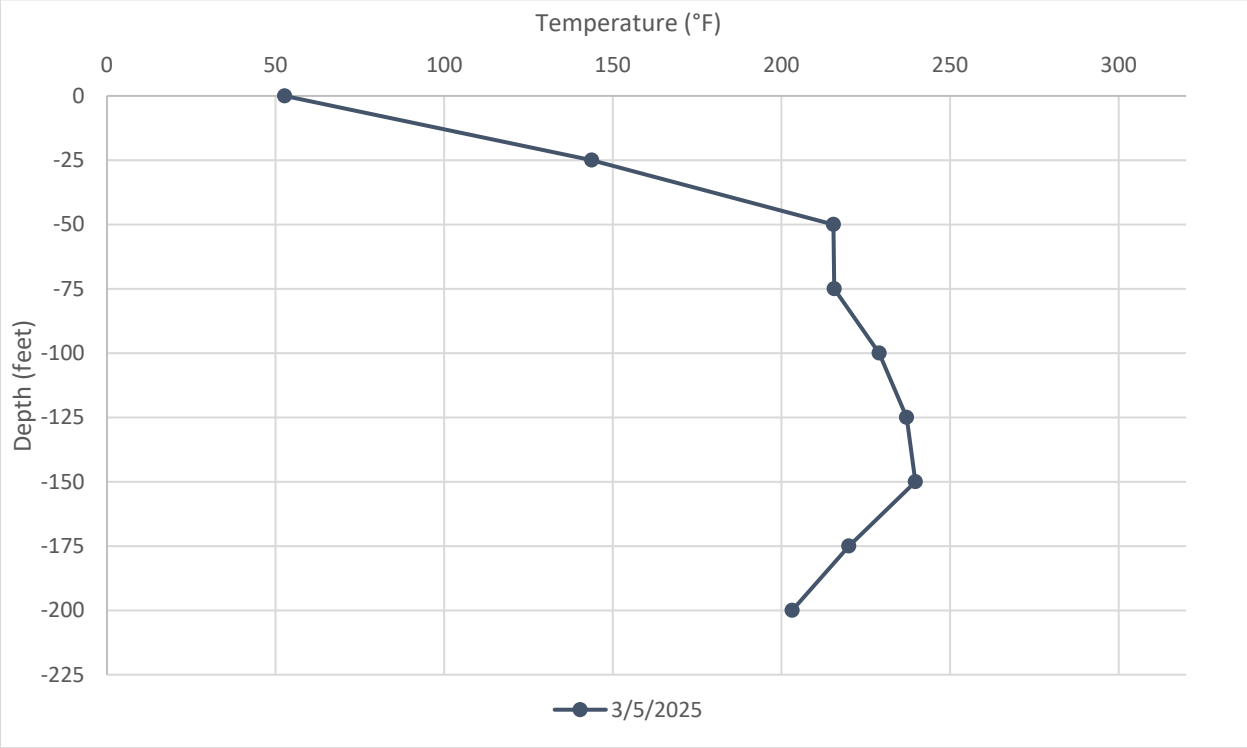


Figure B - 10 Average Temperatures Recorded by TP-5 on March 12, 2025

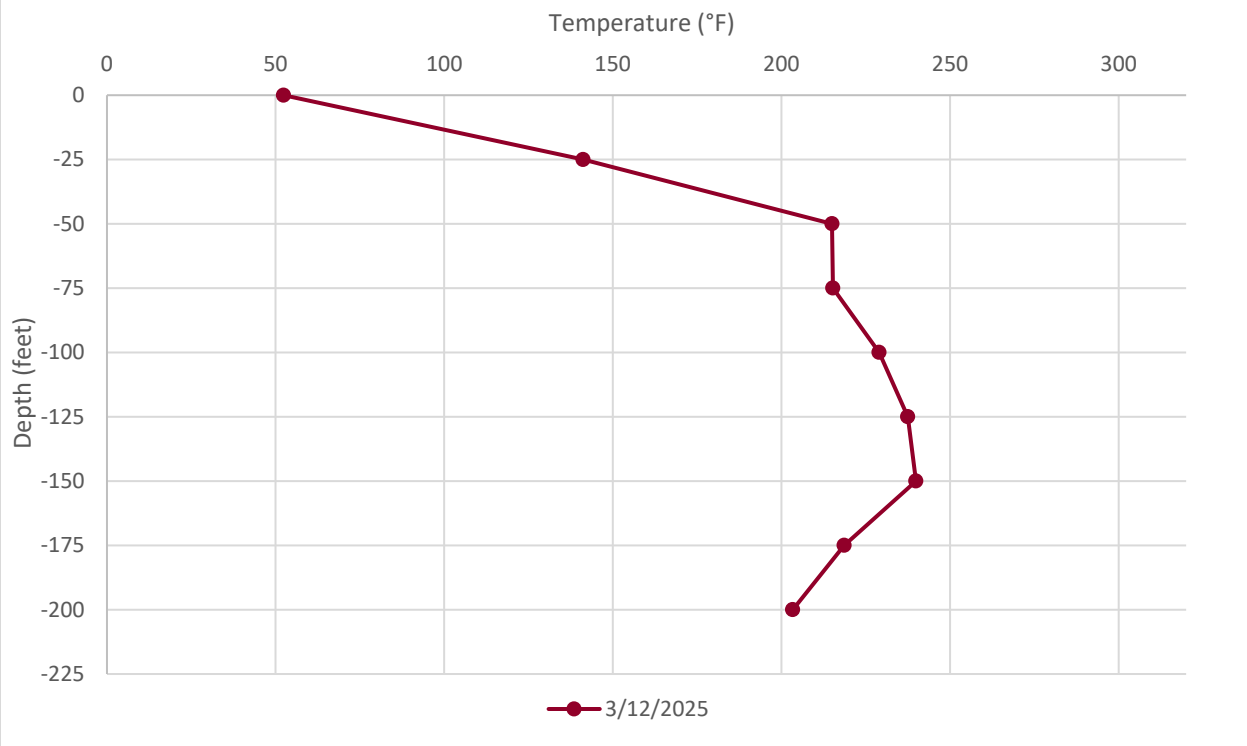


Figure B - 11 Average Temperatures Recorded by TP-5 on March 19, 2025

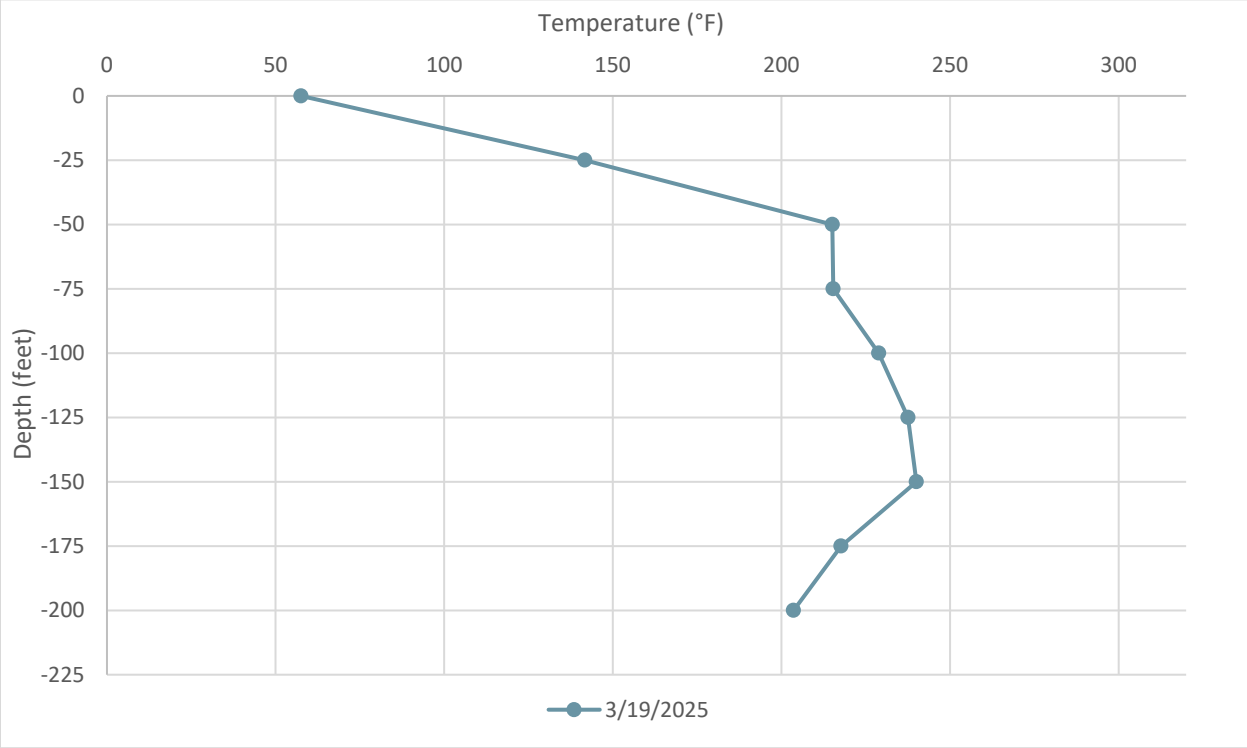


Figure B - 12 Average Temperatures Recorded by TP-5 on March 26, 2025

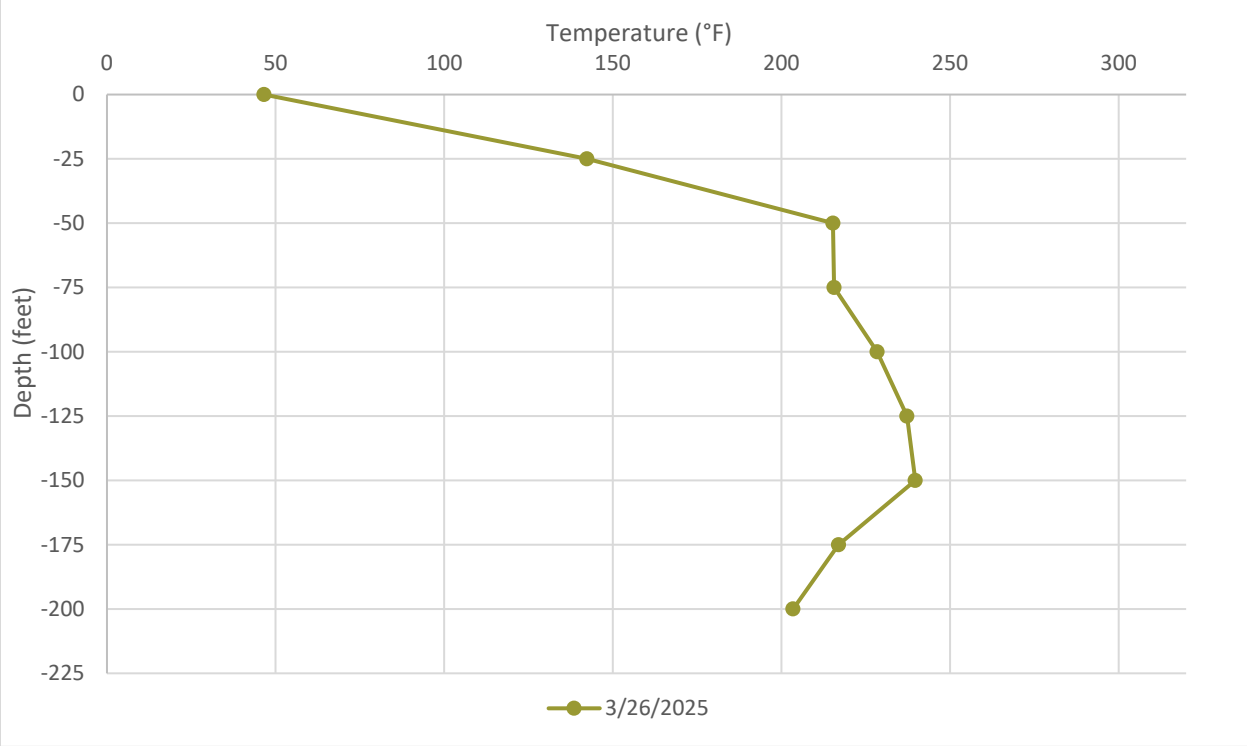


Figure B - 13 Average Temperatures Recorded by TP-6 on March 5, 2025

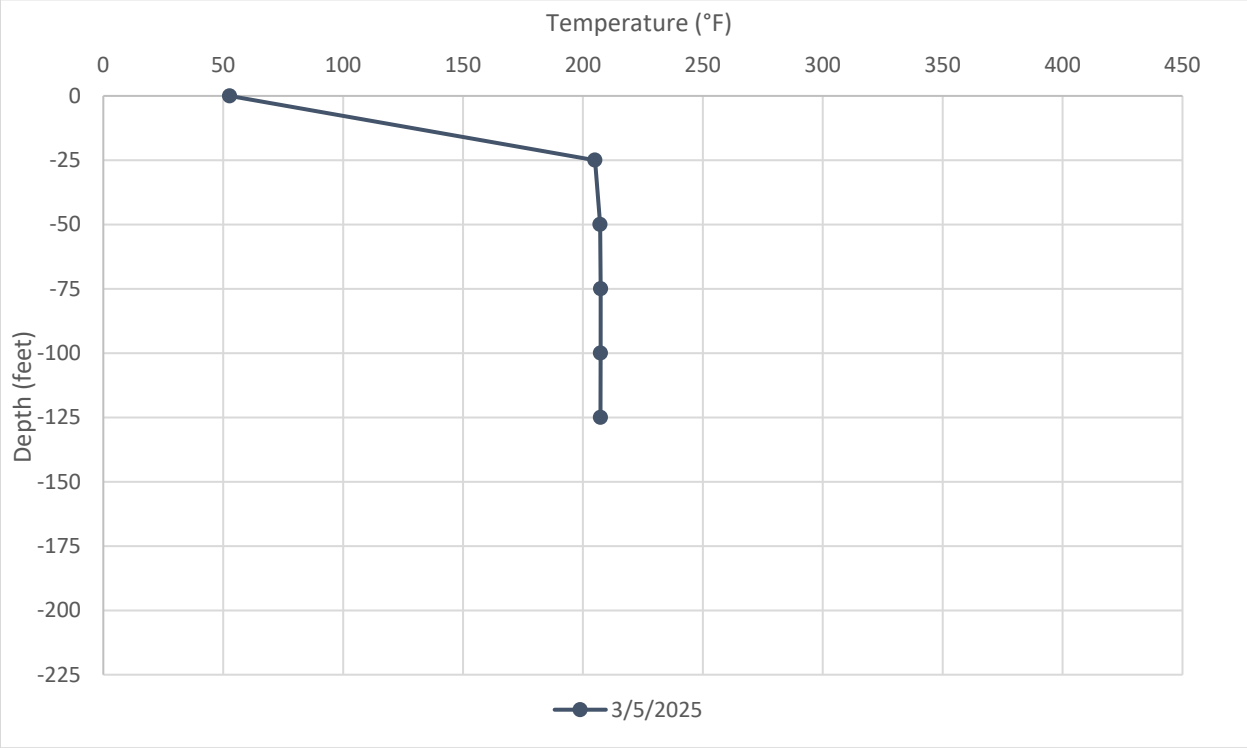


Figure B - 14 Average Temperatures Recorded by TP-6 on March 12, 2025

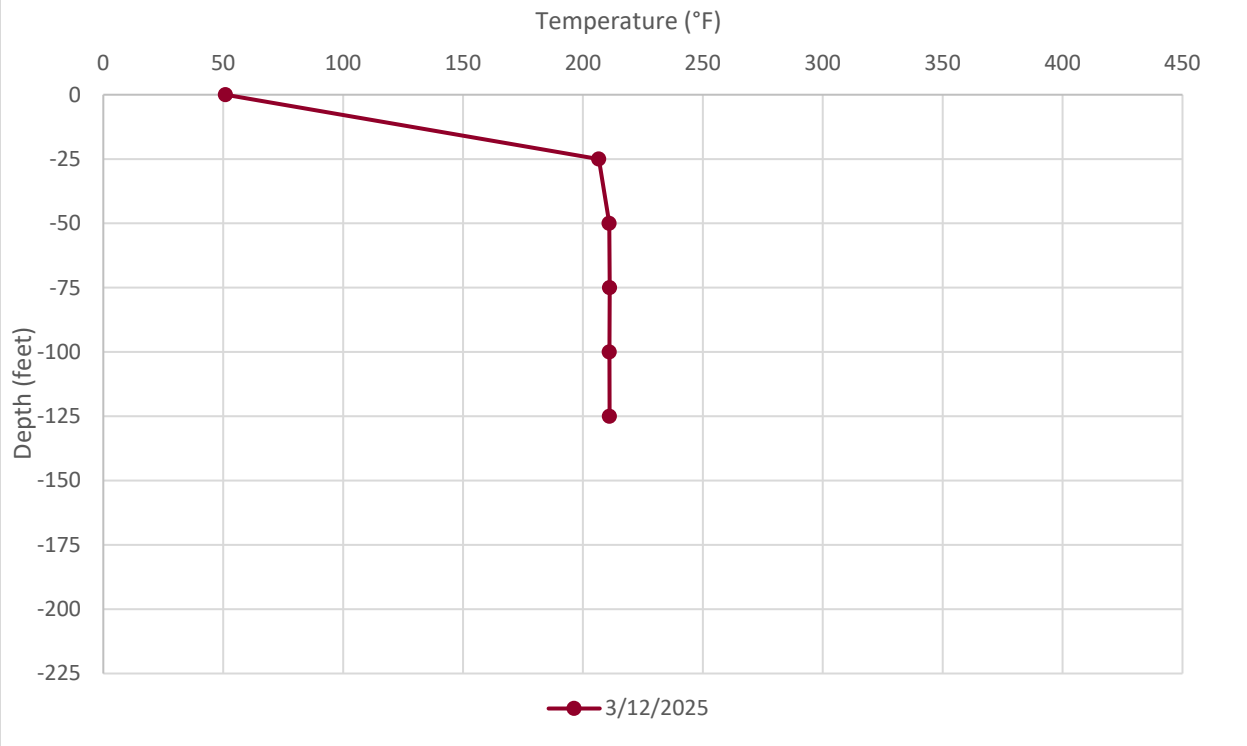


Figure B - 15 Average Temperatures Recorded by TP-6 on March 19, 2025

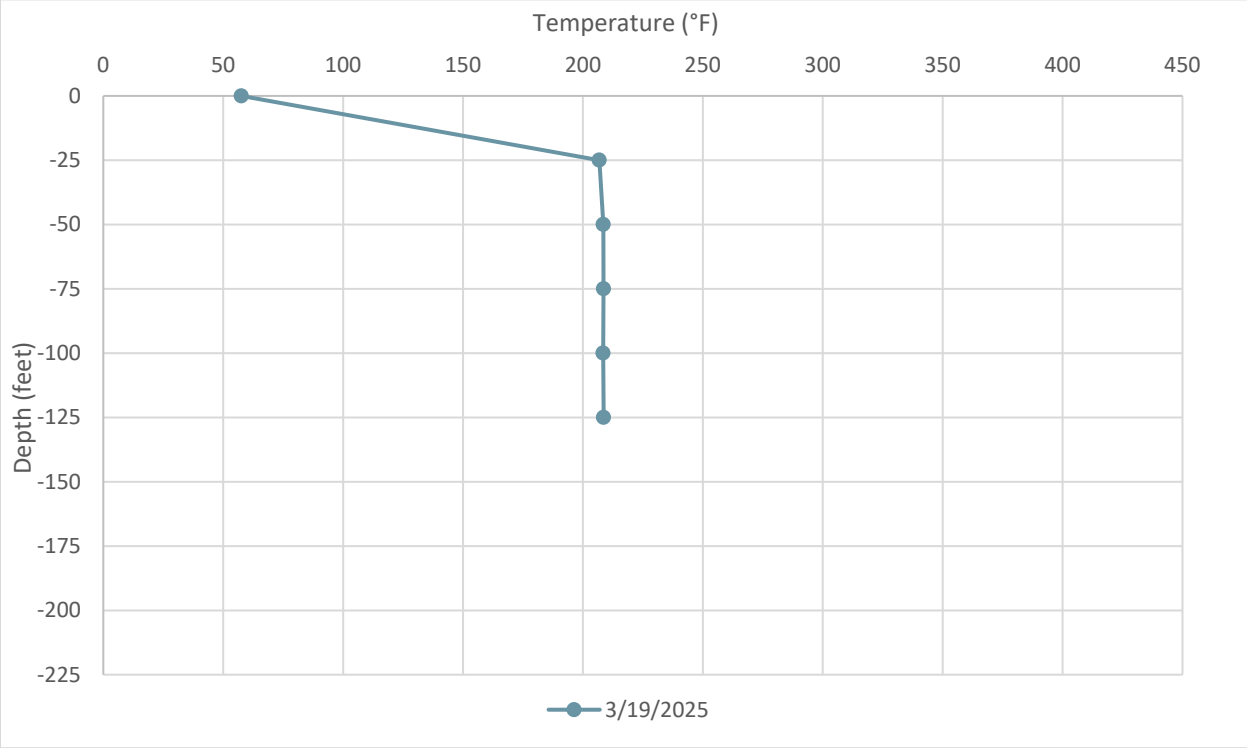


Figure B - 16 Average Temperatures Recorded by TP-6 on March 26, 2025

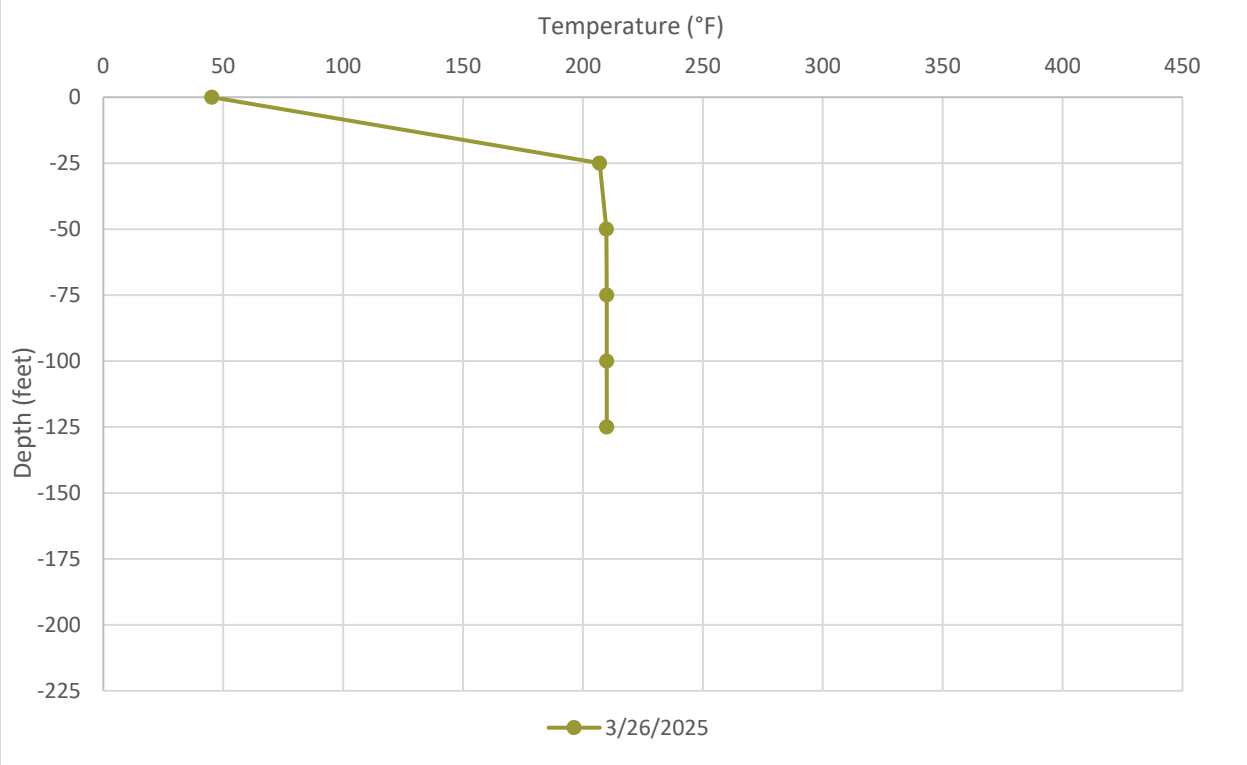


Figure B - 17 Average Temperatures Recorded by TP-7 on March 5, 2025

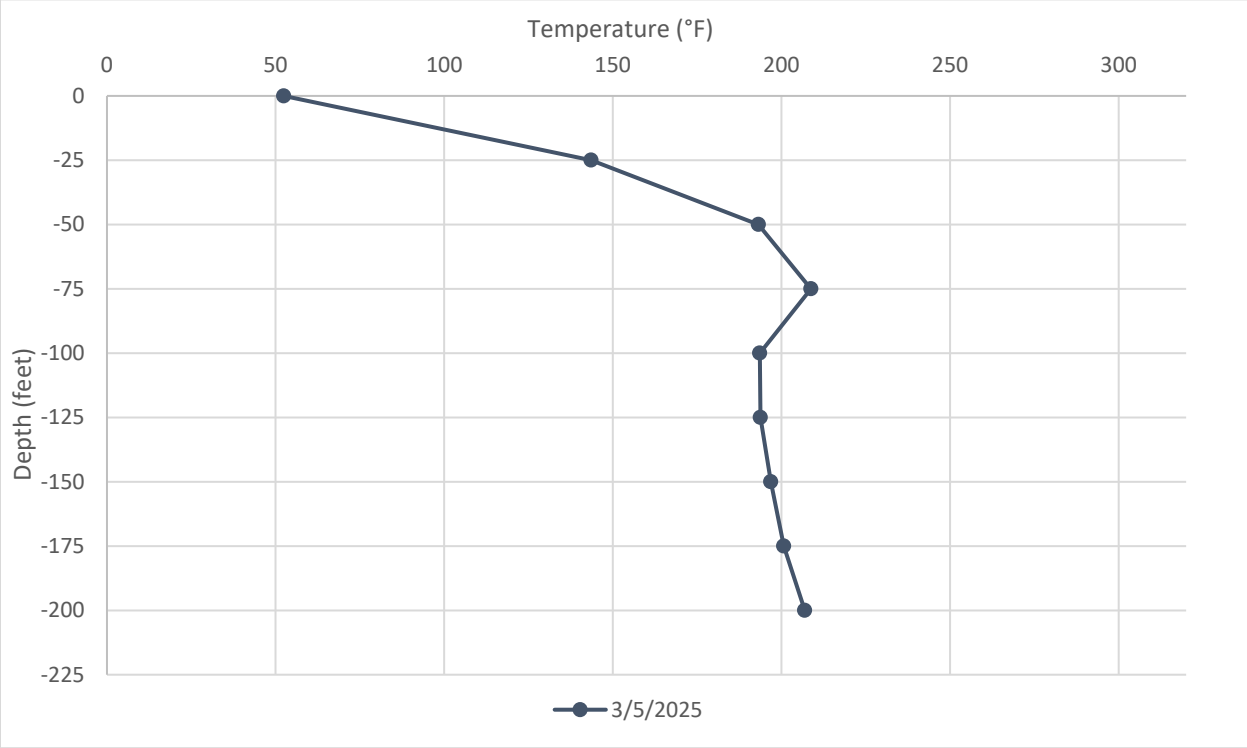


Figure B - 18 Average Temperatures Recorded by TP-7 on March 12, 2025

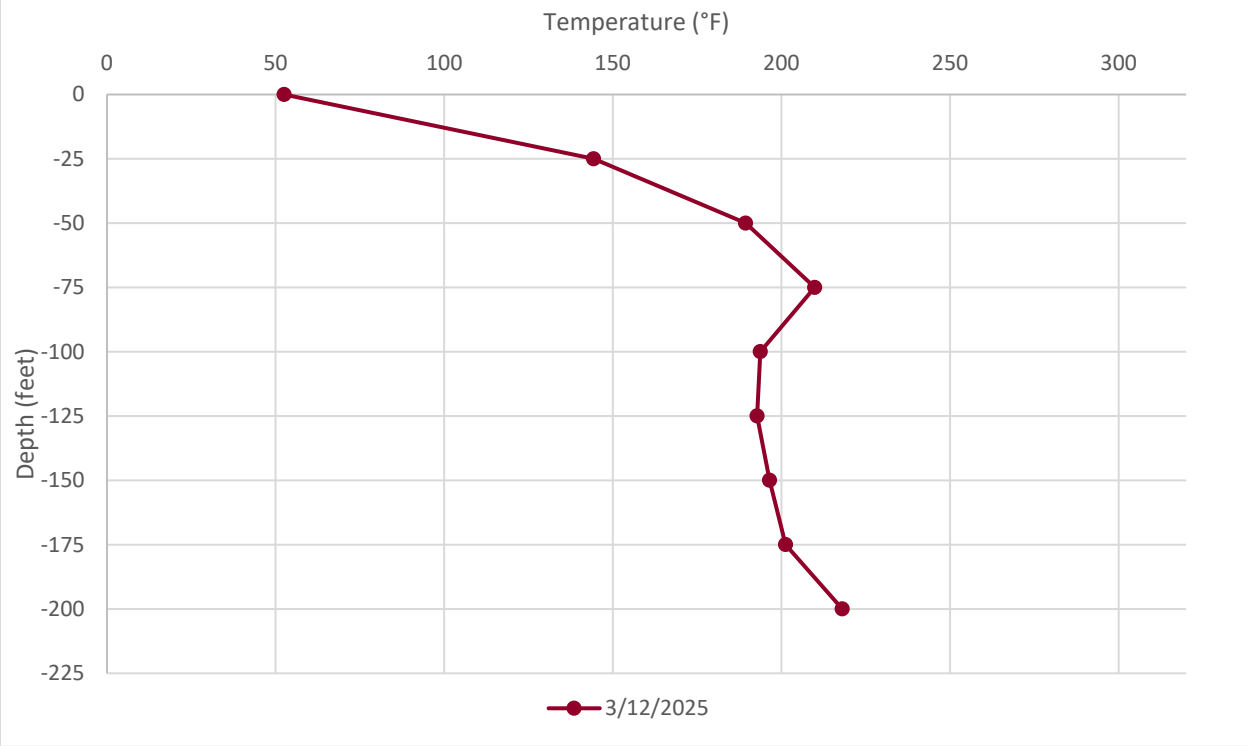


Figure B - 19 Average Temperatures Recorded by TP-7 on March 19, 2025

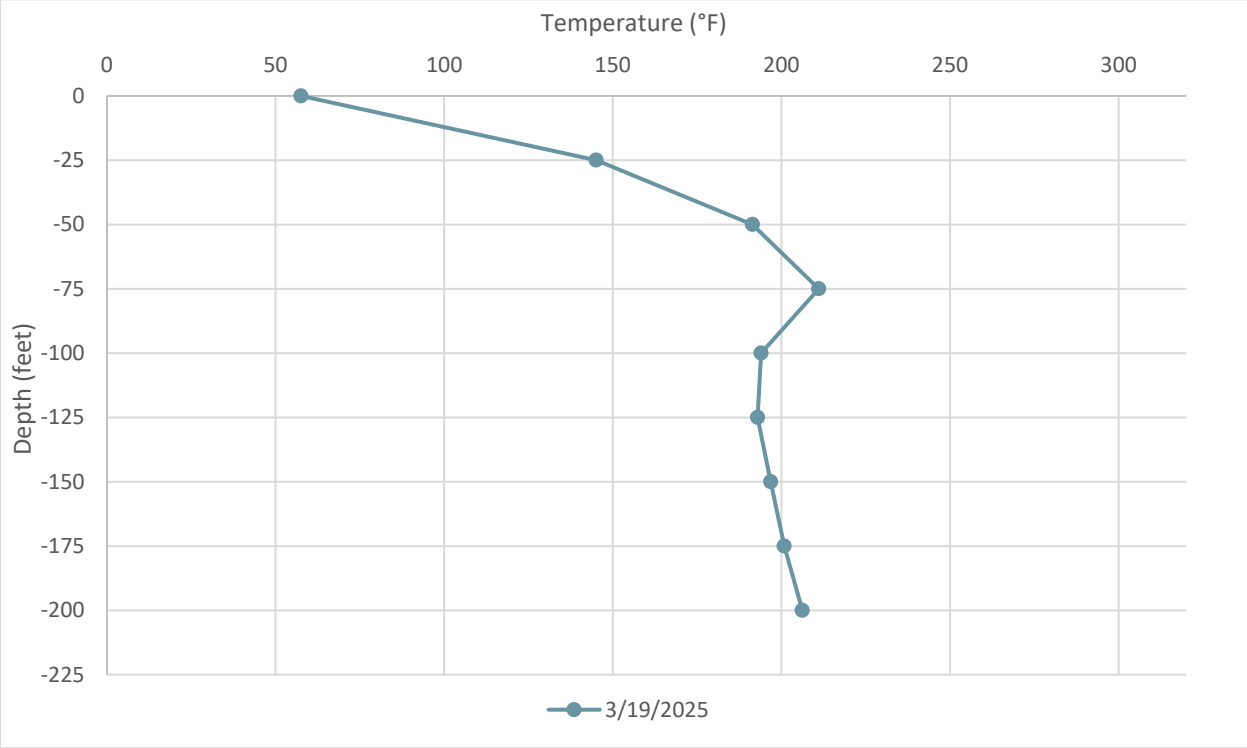


Figure B - 20 Average Temperatures Recorded by TP-7 on March 26, 2025

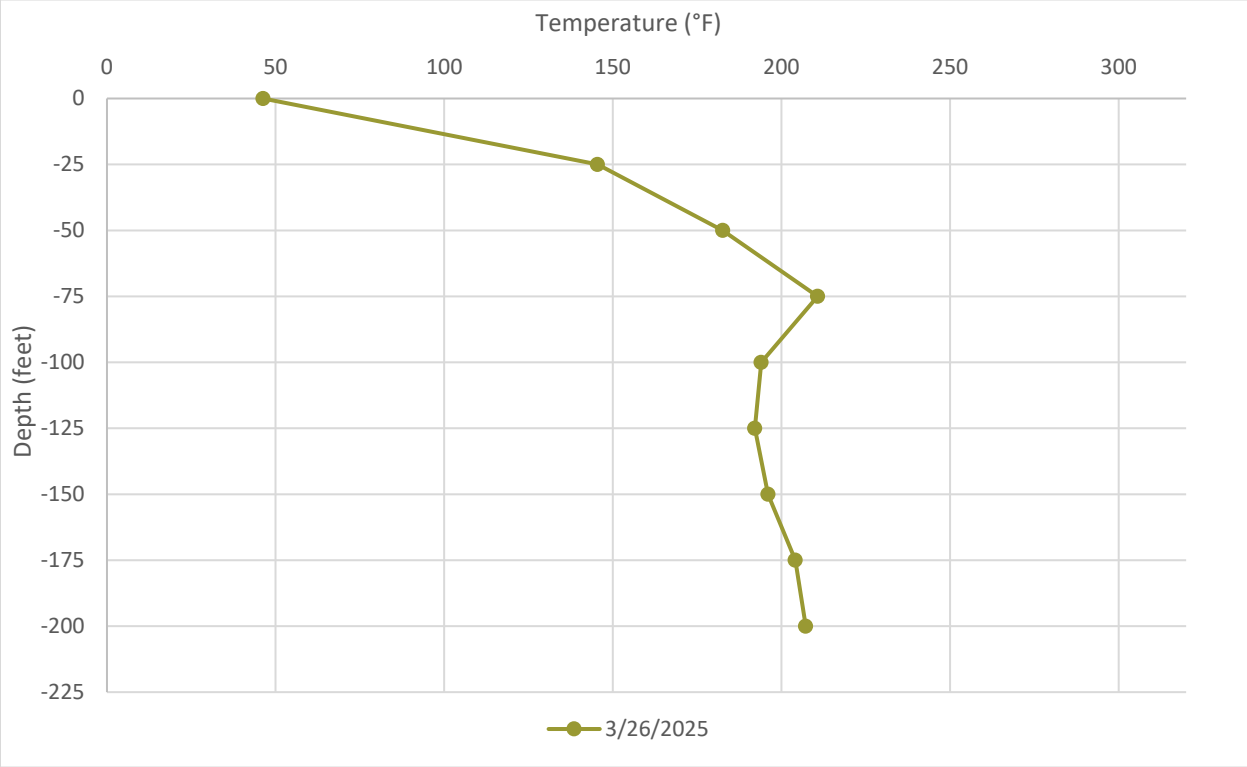


Figure B - 21 Average Temperatures Recorded by TP-8 on March 5, 2025

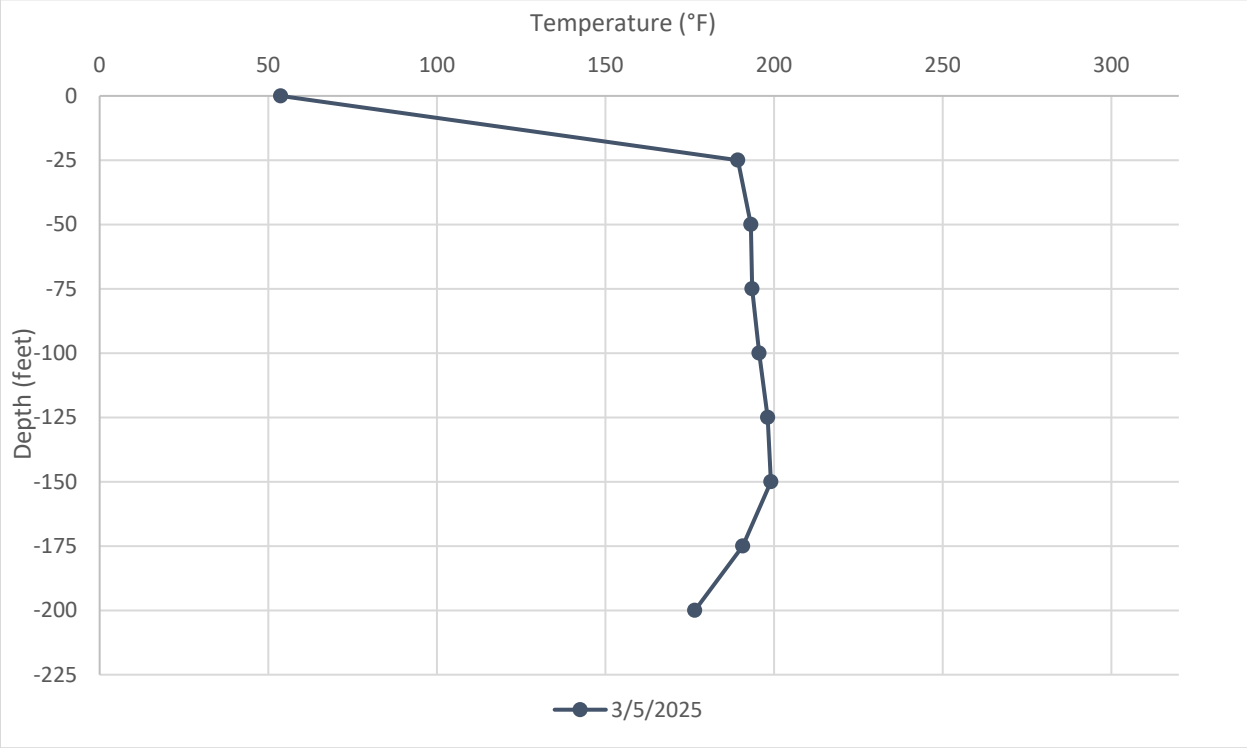


Figure B - 22 Average Temperatures Recorded by TP-8 on March 12, 2025

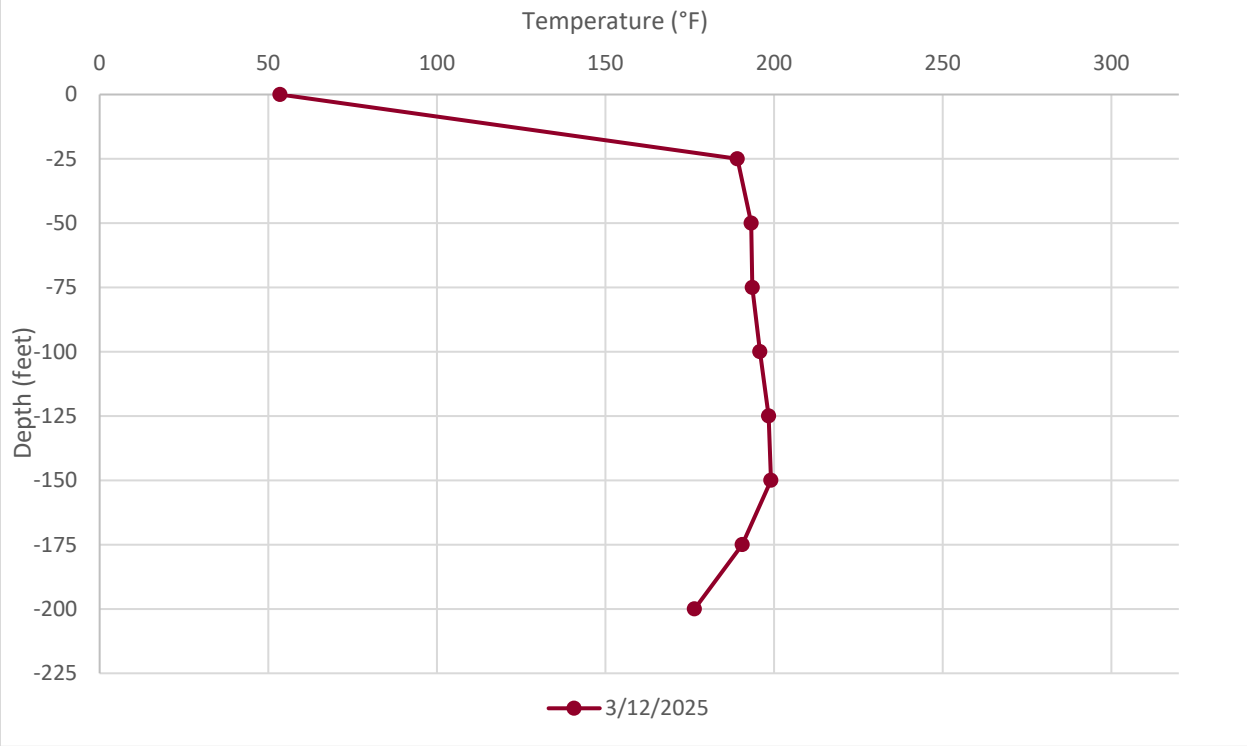


Figure B - 23 Average Temperatures Recorded by TP-8 on March 19, 2025

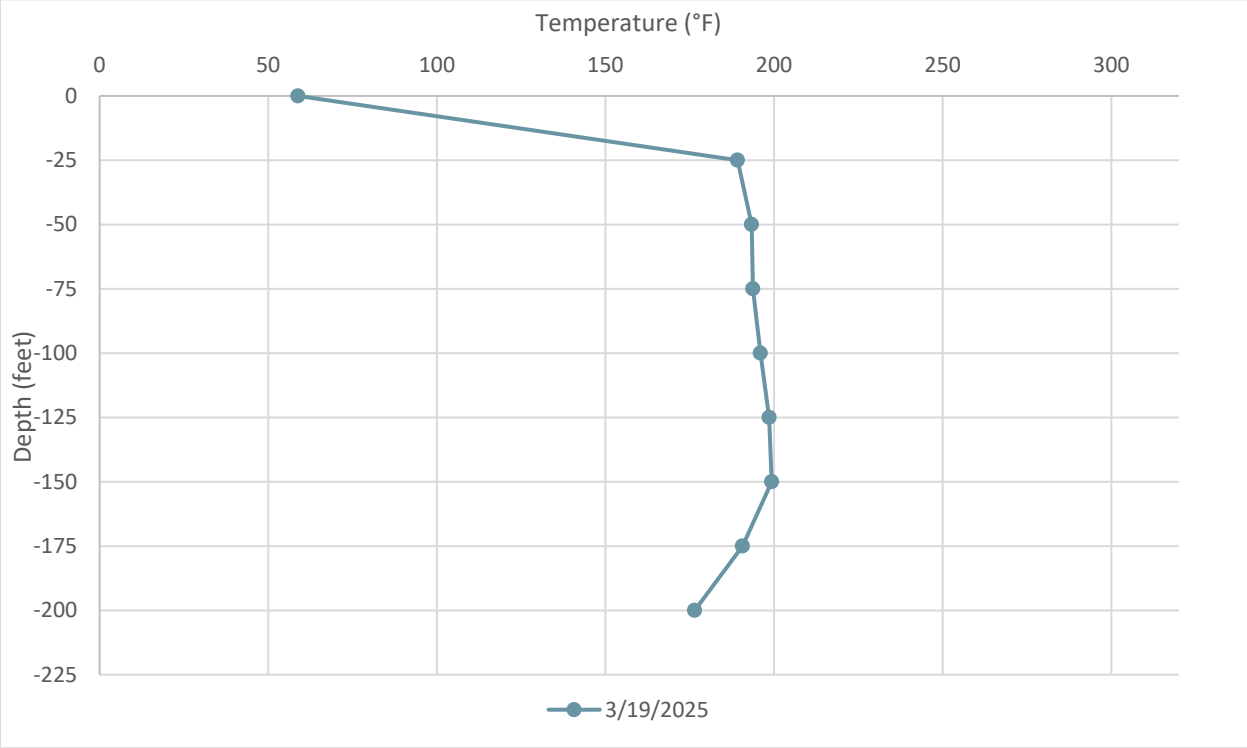


Figure B - 24 Average Temperatures Recorded by TP-8 on March 26, 2025

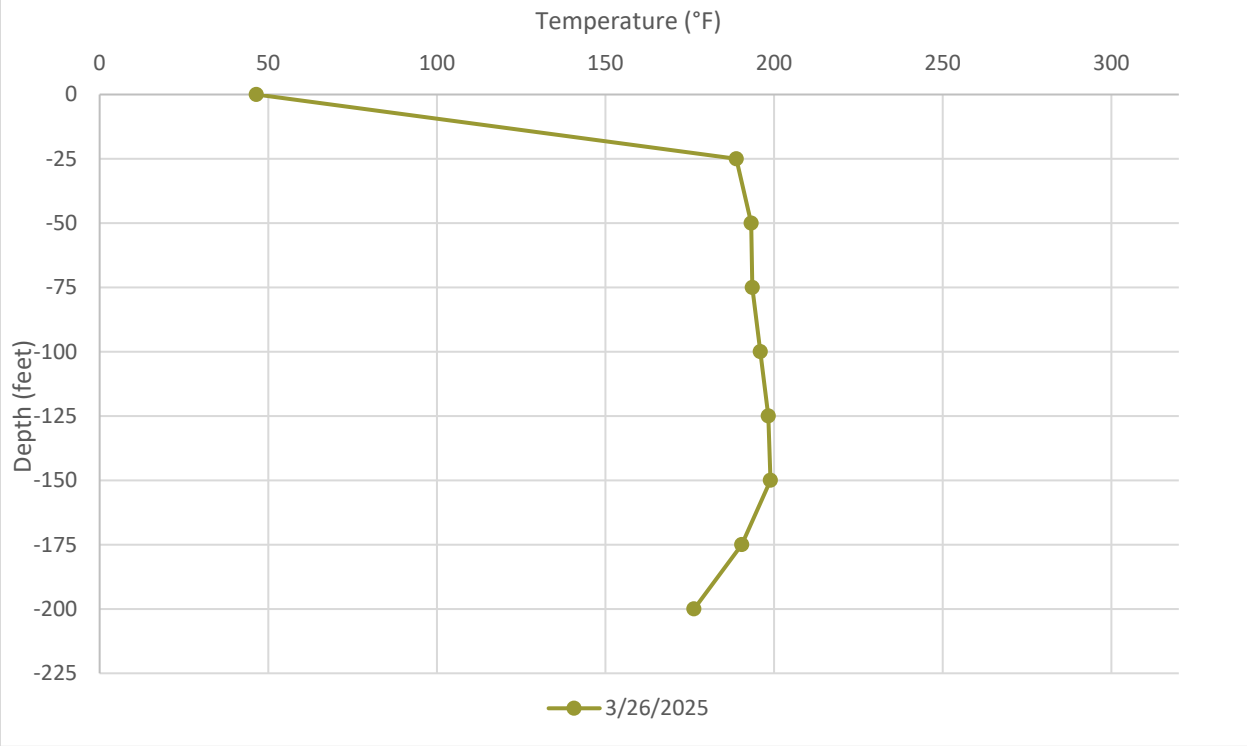


Figure B - 25 Average Temperatures Recorded by TP-9 on March 5, 2025

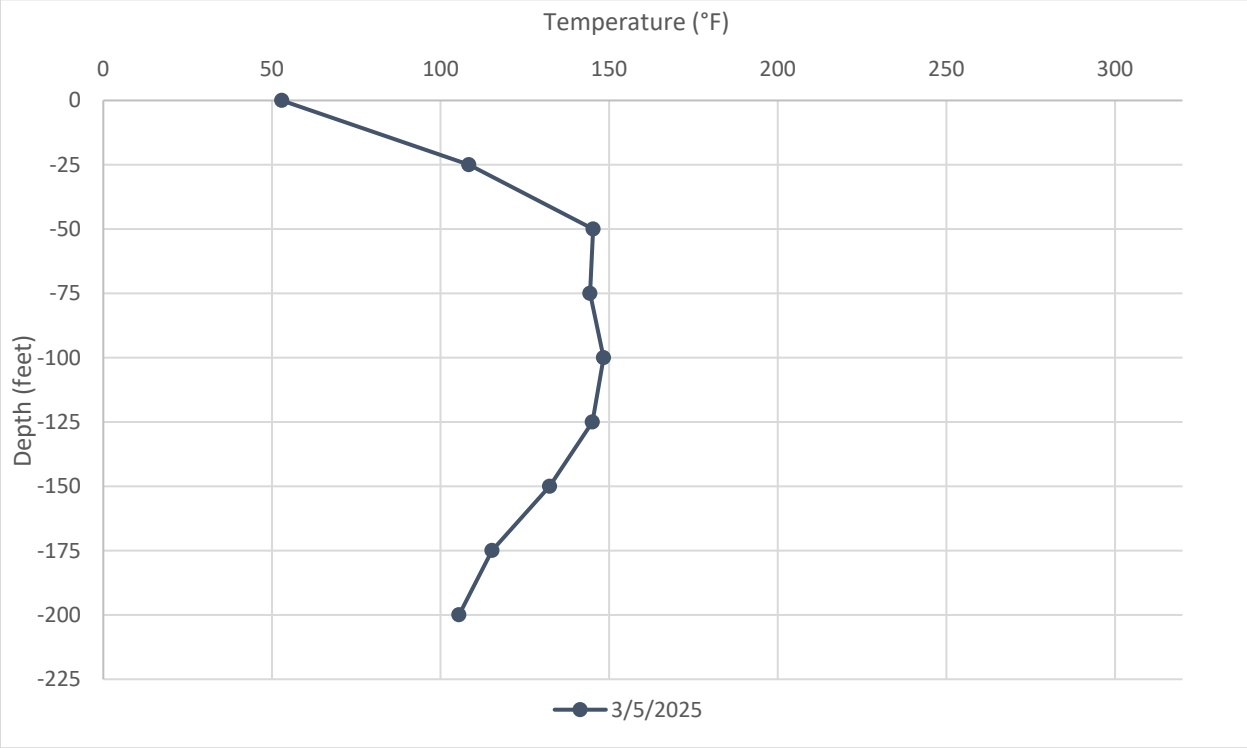


Figure B - 26 Average Temperatures Recorded by TP-9 on March 12, 2025

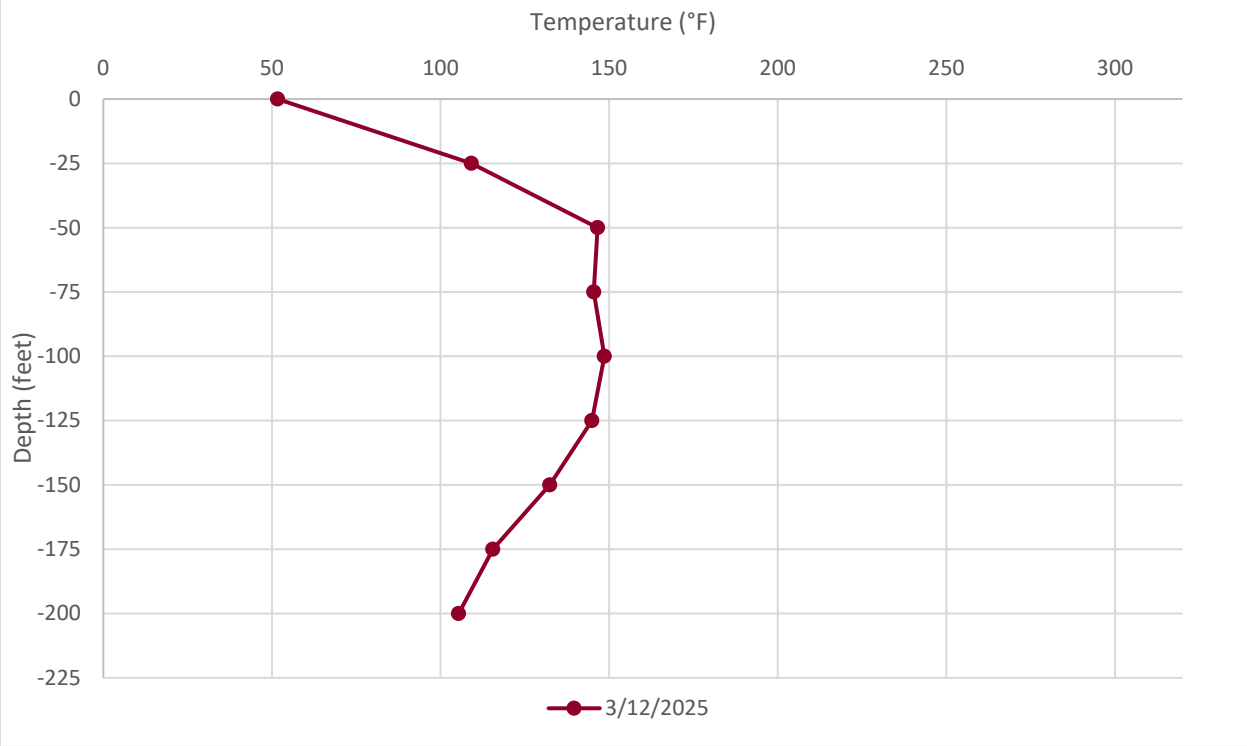


Figure B - 27 Average Temperatures Recorded by TP-9 on March 19, 2025

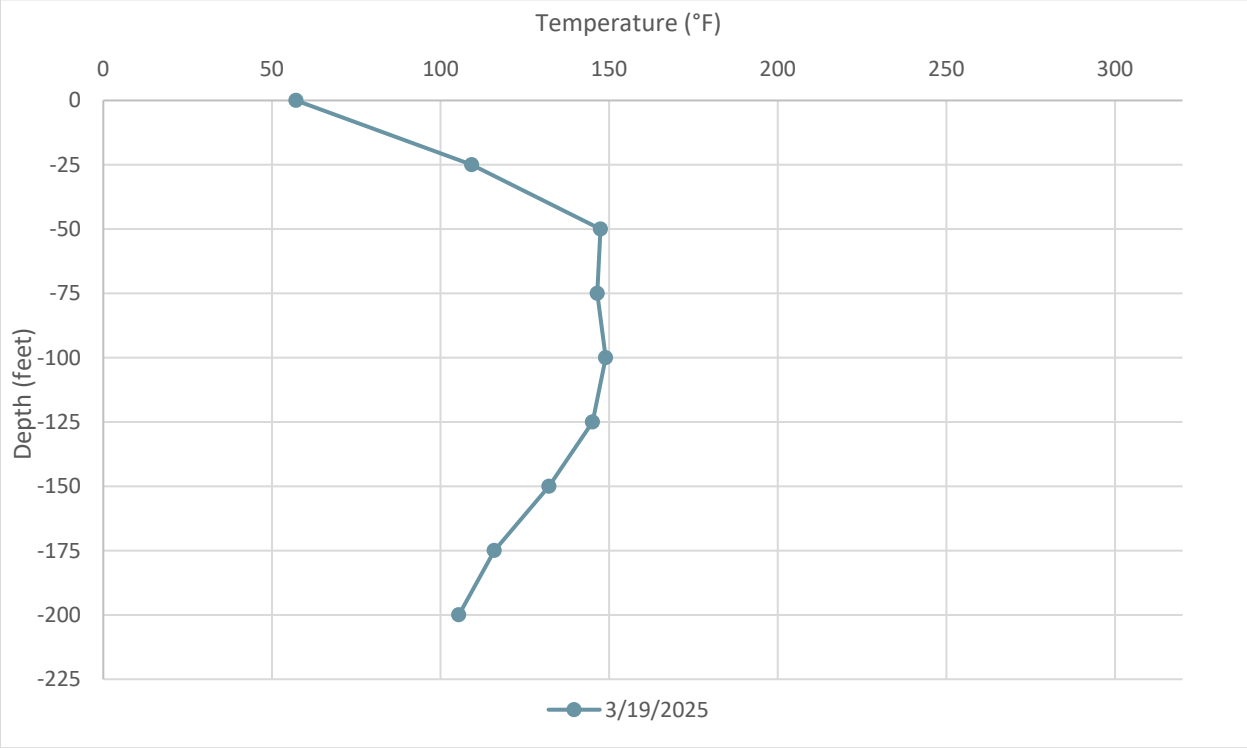
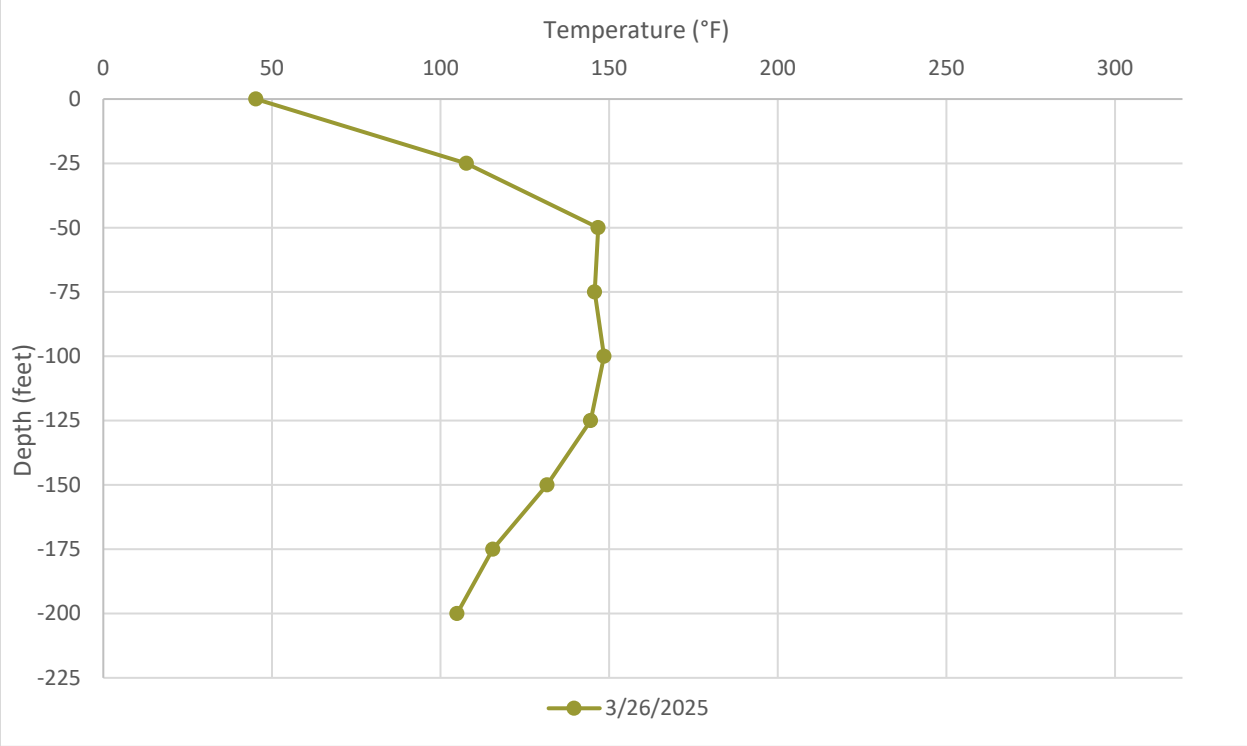


Figure B - 28 Average Temperatures Recorded by TP-9 on March 26, 2025



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 | April 10, 2025

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)
Mar 1	93.0	81.8	100.0
Mar 2	88.6	82.1	97.1
Mar 3	94.0	86.5	102.8
Mar 4	97.9	92.3	105.6
Mar 5	99.5	88.0	107.4
Mar 6	86.9	84.0	89.3
Mar 7	94.7	88.6	101.7
Mar 8	95.5	91.9	99.8
Mar 9	97.5	91.5	104.7
Mar 10	97.3	92.5	103.8
Mar 11	95.7	87.6	105.9
Mar 12	97.3	87.6	108.5
Mar 13	96.4	89.8	104.6
Mar 14	98.3	91.1	109.6
Mar 15	98.5	95.6	102.1
Mar 16	98.2	91.0	105.8
Mar 17	87.8	79.9	96.2
Mar 18	96.1	85.5	107.5
Mar 19	102.2	93.0	112.8
Mar 20	95.0	86.5	103.9
Mar 21	91.6	83.3	100.5
Mar 22	96.3	91.9	103.9
Mar 23	98.8	88.3	107.8
Mar 24	96.8	91.6	101.8
Mar 25	99.2	92.2	110.4
Mar 26	103.4	99.7	108.7
Mar 27	105.3	99.7	111.0
Mar 28	108.8	104.3	114.2
Mar 29	108.6	104.7	115.0
Mar 30	110.1	107.1	112.8
Mar 31	107.4	102.0	112.0
Summary	**98.0**	**86.9**	**110.1**

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

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	116.5	110.5	120.1
Mar 2	115.2	111.3	117.6
Mar 3	117.2	114.5	120.0
Mar 4	116.0	111.6	118.3
Mar 5	113.7	110.1	118.3
Mar 6	111.5	110.0	115.0
Mar 7	116.0	114.3	117.6
Mar 8	115.4	111.6	117.5
Mar 9	116.2	114.1	118.4
Mar 10	115.5	113.5	116.6
Mar 11	116.2	113.9	119.5
Mar 12	116.5	113.2	119.4
Mar 13	116.0	113.4	119.1
Mar 14	114.8	109.6	120.3
Mar 15	112.1	106.8	116.2
Mar 16	110.6	101.4	115.9
Mar 17	106.2	91.0	116.4
Mar 18	116.4	112.8	120.4
Mar 19	117.7	113.1	122.0
Mar 20	110.6	105.8	117.9
Mar 21	109.2	102.7	114.4
Mar 22	111.6	109.7	113.2
Mar 23	113.4	109.7	117.3
Mar 24	109.6	105.0	113.7
Mar 25	108.3	100.5	113.7
Mar 26	105.5	102.1	108.5
Mar 27	108.2	102.7	112.9
Mar 28	110.1	106.3	115.4
Mar 29	108.2	91.6	112.7
Mar 30	107.8	103.3	109.8
Mar 31	101.2	89.8	107.7
Summary	**112.4**	**101.2**	**117.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 36A

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	47.9	36.8	64.7
Mar 2	41.2	32.1	61.6
Mar 3	47.4	32.1	74.3
Mar 4	53.5	35.0	74.7
Mar 5	57.2	41.0	69.3
Mar 6	36.0	32.1	40.3
Mar 7	41.5	32.1	55.1
Mar 8	48.5	38.5	65.3
Mar 9	50.8	37.3	73.3
Mar 10	51.5	37.2	74.9
Mar 11	54.9	35.0	82.9
Mar 12	59.2	38.5	86.9
Mar 13	59.6	42.9	82.0
Mar 14	64.1	46.2	86.9
Mar 15	64.0	52.8	73.1
Mar 16	65.7	56.7	77.8
Mar 17	48.5	40.7	62.0
Mar 18	54.3	34.6	81.1
Mar 19	64.3	42.7	91.7
Mar 20	54.3	41.1	64.5
Mar 21	49.5	37.5	68.2
Mar 22	53.6	36.3	73.1
Mar 23	59.7	37.4	83.6
Mar 24	58.7	49.8	67.6
Mar 25	55.7	43.7	70.9
Mar 26	53.4	44.6	69.3
Mar 27	56.0	36.3	78.5
Mar 28	67.3	52.3	89.0
Mar 29	65.5	53.1	83.1
Mar 30	65.2	58.3	75.9
Mar 31	60.4	54.2	67.1
Summary	**55.1**	**36.0**	**67.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 38

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	87.4	81.7	91.4
Mar 2	85.5	80.8	92.9
Mar 3	88.0	82.9	95.9
Mar 4	89.2	84.8	96.8
Mar 5	87.6	82.4	91.6
Mar 6	82.0	80.2	84.3
Mar 7	86.7	82.9	89.7
Mar 8	87.9	86.3	93.1
Mar 9	89.5	85.9	95.2
Mar 10	88.6	84.6	94.5
Mar 11	88.7	83.0	97.5
Mar 12	87.7	79.0	96.3
Mar 13	86.1	80.0	91.9
Mar 14	87.7	81.0	97.7
Mar 15	88.9	86.4	92.2
Mar 16	89.0	80.5	94.2
Mar 17	81.8	75.7	91.0
Mar 18	87.7	79.4	98.2
Mar 19	93.2	86.8	101.2
Mar 20	87.3	80.7	92.1
Mar 21	84.0	77.5	91.8
Mar 22	86.5	80.9	92.8
Mar 23	89.8	81.3	99.0
Mar 24	90.2	87.2	93.3
Mar 25	89.5	85.8	93.8
Mar 26	89.0	85.7	93.7
Mar 27	91.2	84.5	97.4
Mar 28	93.9	89.6	100.3
Mar 29	93.2	88.6	97.8
Mar 30	93.7	90.8	96.6
Mar 31	91.1	82.8	94.9
Summary	**88.5**	**81.8**	**93.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 42

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	95.4	88.6	100.7
Mar 2	92.7	88.1	99.1
Mar 3	95.9	89.8	103.1
Mar 4	97.0	93.2	103.6
Mar 5	95.6	90.8	101.2
Mar 6	90.1	88.3	91.7
Mar 7	94.5	91.2	98.6
Mar 8	96.5	93.9	101.7
Mar 9	97.3	93.8	103.4
Mar 10	97.2	92.5	104.1
Mar 11	99.1	94.0	106.7
Mar 12	99.4	93.3	105.9
Mar 13	98.4	93.8	104.1
Mar 14	99.7	94.0	107.9
Mar 15	98.6	97.0	100.9
Mar 16	98.5	94.0	103.1
Mar 17	93.5	87.1	100.1
Mar 18	98.3	92.1	105.3
Mar 19	101.3	95.7	108.2
Mar 20	96.1	91.8	100.1
Mar 21	95.3	90.1	100.2
Mar 22	97.3	93.9	102.1
Mar 23	99.2	92.8	104.8
Mar 24	97.3	93.8	100.7
Mar 25	97.9	95.4	103.1
Mar 26	98.3	95.0	102.6
Mar 27	99.6	94.5	104.6
Mar 28	102.1	98.6	106.7
Mar 29	101.0	96.4	105.7
Mar 30	101.3	99.4	104.7
Mar 31	98.9	92.3	102.3
Summary	**97.5**	**90.1**	**102.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 47

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	48.8	34.2	68.9
Mar 2	39.5	29.9	60.7
Mar 3	45.6	29.9	72.5
Mar 4	55.2	34.5	77.0
Mar 5	57.7	39.7	71.5
Mar 6	35.6	30.3	41.4
Mar 7	41.0	29.9	54.9
Mar 8	47.3	37.1	64.7
Mar 9	50.0	36.2	70.7
Mar 10	49.7	35.1	73.6
Mar 11	52.3	31.1	81.5
Mar 12	57.4	34.4	83.9
Mar 13	56.6	38.9	77.2
Mar 14	62.5	42.6	87.1
Mar 15	63.0	49.9	75.1
Mar 16	64.8	54.2	77.4
Mar 17	45.7	36.7	59.6
Mar 18	50.5	29.9	80.1
Mar 19	61.1	37.5	86.3
Mar 20	52.6	38.5	62.6
Mar 21	46.2	34.7	65.5
Mar 22	50.4	30.9	72.5
Mar 23	56.4	31.9	81.6
Mar 24	57.4	49.1	68.0
Mar 25	53.0	38.4	71.9
Mar 26	51.2	40.3	66.5
Mar 27	53.3	31.4	75.8
Mar 28	64.1	50.6	83.1
Mar 29	63.8	51.0	81.2
Mar 30	64.7	57.8	75.1
Mar 31	59.9	55.4	68.4
Summary	**53.5**	**35.6**	**64.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 48

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	43.0	30.5	62.9
Mar 2	35.4	29.9	48.9
Mar 3	42.0	29.9	62.6
Mar 4	50.7	29.9	70.8
Mar 5	55.5	37.3	67.4
Mar 6	32.6	29.9	37.0
Mar 7	38.6	29.9	51.1
Mar 8	43.3	32.9	56.3
Mar 9	46.9	31.9	65.8
Mar 10	46.1	31.9	69.1
Mar 11	49.5	29.9	74.3
Mar 12	54.2	33.0	79.5
Mar 13	55.6	37.7	75.4
Mar 14	61.0	41.0	85.3
Mar 15	62.9	48.9	71.7
Mar 16	64.0	50.0	72.9
Mar 17	44.0	33.7	54.6
Mar 18	48.2	29.9	73.1
Mar 19	60.4	35.3	84.0
Mar 20	52.1	36.9	65.0
Mar 21	43.2	33.1	60.8
Mar 22	48.9	29.9	68.6
Mar 23	55.1	30.1	77.7
Mar 24	56.8	48.1	64.7
Mar 25	51.7	36.7	69.9
Mar 26	48.7	37.5	62.2
Mar 27	50.8	29.9	71.6
Mar 28	63.7	47.8	82.1
Mar 29	62.5	48.3	81.1
Mar 30	63.3	55.6	75.8
Mar 31	57.9	52.8	67.1
Summary	**51.2**	**32.6**	**64.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 49

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	147.2	139.1	153.9
Mar 2	147.6	142.0	150.8
Mar 3	150.1	145.5	152.9
Mar 4	148.6	142.5	153.0
Mar 5	145.0	140.0	151.6
Mar 6	141.3	138.7	147.9
Mar 7	149.6	146.9	151.6
Mar 8	149.1	142.5	152.5
Mar 9	150.1	148.0	152.9
Mar 10	149.5	146.4	152.7
Mar 11	149.9	147.2	153.0
Mar 12	147.4	138.9	152.7
Mar 13	112.8	87.1	141.6
Mar 14	106.8	65.9	156.0
Mar 15	115.2	86.5	138.5
Mar 16	89.4	68.5	120.3
Mar 17	89.5	39.6	154.8
Mar 18	153.7	148.1	156.9
Mar 19	153.8	148.8	157.7
Mar 20	145.4	137.7	154.9
Mar 21	145.3	137.4	151.2
Mar 22	145.9	142.5	150.7
Mar 23	148.8	143.6	154.2
Mar 24	145.0	141.6	150.4
Mar 25	146.8	139.1	152.6
Mar 26	146.7	143.3	150.0
Mar 27	148.7	144.5	151.8
Mar 28	150.1	146.5	153.7
Mar 29	112.1	77.6	143.2
Mar 30	85.5	77.9	93.2
Mar 31	112.2	59.4	159.4
Summary	**136.4**	**85.5**	**153.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 50

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	92.1	87.4	95.4
Mar 2	89.8	86.2	95.1
Mar 3	92.3	87.0	98.5
Mar 4	93.0	88.6	101.5
Mar 5	92.9	88.1	102.5
Mar 6	88.1	85.6	92.5
Mar 7	91.2	87.8	94.6
Mar 8	91.9	90.2	95.8
Mar 9	92.5	89.7	97.0
Mar 10	92.5	87.2	100.6
Mar 11	92.7	85.9	100.4
Mar 12	89.6	75.4	100.3
Mar 13	65.9	50.6	79.2
Mar 14	70.2	41.8	103.1
Mar 15	71.2	62.5	85.9
Mar 16	65.0	56.2	78.6
Mar 17	63.3	39.0	99.4
Mar 18	96.6	90.2	103.3
Mar 19	97.8	91.2	104.3
Mar 20	93.0	88.1	99.3
Mar 21	91.4	86.3	95.9
Mar 22	92.3	88.5	97.1
Mar 23	93.6	86.4	100.0
Mar 24	93.0	90.0	96.5
Mar 25	92.9	88.7	102.8
Mar 26	91.8	88.3	96.2
Mar 27	93.3	86.4	99.1
Mar 28	94.8	82.3	101.7
Mar 29	69.2	57.5	82.2
Mar 30	63.1	55.5	74.7
Mar 31	76.6	54.2	102.0
Summary	**86.2**	**63.1**	**97.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 51

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	44.5	31.6	65.5
Mar 2	34.4	25.9	55.1
Mar 3	41.4	25.9	68.3
Mar 4	50.8	29.0	73.5
Mar 5	55.8	37.1	68.3
Mar 6	32.4	26.0	37.7
Mar 7	37.0	25.9	51.9
Mar 8	43.8	32.6	59.2
Mar 9	46.3	32.1	69.5
Mar 10	46.7	31.2	70.8
Mar 11	49.9	28.9	78.2
Mar 12	54.2	33.1	81.1
Mar 13	55.4	37.5	75.4
Mar 14	61.9	41.4	86.5
Mar 15	62.1	48.7	72.9
Mar 16	63.6	54.8	76.3
Mar 17	43.3	33.2	54.2
Mar 18	48.1	27.3	75.1
Mar 19	59.6	36.0	85.6
Mar 20	50.5	36.4	61.6
Mar 21	43.4	32.9	60.7
Mar 22	47.9	28.3	69.7
Mar 23	54.4	30.0	78.6
Mar 24	55.4	46.1	65.6
Mar 25	50.9	35.5	71.4
Mar 26	47.9	37.8	64.4
Mar 27	49.9	29.3	73.6
Mar 28	63.7	47.8	85.8
Mar 29	63.4	49.3	83.2
Mar 30	64.6	56.5	77.6
Mar 31	59.3	54.7	67.9
Summary	**51.1**	**32.4**	**64.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 52

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	154.0	151.4	155.0
Mar 2	151.2	149.5	152.7
Mar 3	152.8	149.7	155.2
Mar 4	156.1	153.1	162.6
Mar 5	158.0	153.3	163.9
Mar 6	151.2	149.7	152.9
Mar 7	152.7	151.0	155.0
Mar 8	154.3	152.4	155.9
Mar 9	155.2	153.2	157.6
Mar 10	154.8	152.6	157.0
Mar 11	156.8	153.1	160.7
Mar 12	160.7	156.6	165.4
Mar 13	162.8	160.5	165.4
Mar 14	165.3	160.7	173.4
Mar 15	162.5	160.3	166.0
Mar 16	161.1	159.7	162.6
Mar 17	155.4	141.4	161.3
Mar 18	156.8	153.3	158.2
Mar 19	158.5	155.4	162.8
Mar 20	156.1	153.6	159.1
Mar 21	154.8	152.7	156.8
Mar 22	156.0	155.1	157.4
Mar 23	157.4	143.5	170.2
Mar 24	157.5	135.0	160.7
Mar 25	157.3	150.7	158.9
Mar 26	156.3	154.9	157.4
Mar 27	156.3	154.5	158.2
Mar 28	157.5	156.0	158.7
Mar 29	157.8	155.7	159.2
Mar 30	158.1	156.9	159.3
Mar 31	150.6	132.1	159.1
Summary	**156.6**	**150.6**	**165.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 53

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	88.5	66.0	104.6
Mar 2	78.4	63.8	99.6
Mar 3	86.7	66.8	109.6
Mar 4	92.6	78.1	111.9
Mar 5	92.8	75.0	108.7
Mar 6	76.3	60.5	84.1
Mar 7	78.6	60.5	93.4
Mar 8	86.2	78.6	98.1
Mar 9	89.4	75.6	108.3
Mar 10	88.8	75.3	111.1
Mar 11	93.9	75.3	116.1
Mar 12	96.7	75.7	117.7
Mar 13	96.7	81.8	110.9
Mar 14	99.0	82.0	120.6
Mar 15	99.3	93.5	107.1
Mar 16	99.6	87.7	112.2
Mar 17	79.6	72.8	93.0
Mar 18	91.6	71.2	115.5
Mar 19	100.4	81.2	120.4
Mar 20	89.1	73.7	100.2
Mar 21	83.4	65.5	103.4
Mar 22	89.8	74.3	107.8
Mar 23	96.0	75.1	117.1
Mar 24	93.8	81.9	107.5
Mar 25	91.6	81.0	107.9
Mar 26	87.4	80.2	101.8
Mar 27	90.4	68.5	111.6
Mar 28	99.2	86.7	116.9
Mar 29	97.6	84.7	112.3
Mar 30	101.5	95.0	110.3
Mar 31	89.8	77.9	101.8
Summary	**91.1**	**76.3**	**101.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 54

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	57.3	38.3	73.2
Mar 2	42.6	29.1	63.0
Mar 3	50.7	29.2	77.0
Mar 4	60.4	40.5	78.2
Mar 5	67.1	46.2	79.5
Mar 6	38.4	32.2	43.1
Mar 7	43.7	29.6	59.0
Mar 8	51.6	40.3	65.0
Mar 9	54.7	40.0	77.7
Mar 10	57.0	41.1	81.4
Mar 11	58.4	38.0	85.8
Mar 12	61.1	39.6	89.6
Mar 13	61.2	43.4	82.9
Mar 14	65.7	45.9	89.6
Mar 15	66.8	55.0	77.0
Mar 16	67.5	57.6	80.1
Mar 17	46.4	37.2	58.6
Mar 18	52.6	30.7	80.3
Mar 19	65.0	41.2	91.6
Mar 20	55.6	40.1	67.8
Mar 21	47.7	36.1	64.8
Mar 22	52.9	34.7	74.1
Mar 23	59.0	33.8	82.8
Mar 24	59.2	49.8	69.1
Mar 25	54.9	41.8	74.8
Mar 26	51.4	41.6	66.9
Mar 27	54.6	32.3	75.7
Mar 28	66.7	50.8	87.3
Mar 29	65.9	52.3	84.3
Mar 30	67.5	59.5	79.1
Mar 31	62.1	57.0	70.2
Summary	**57.0**	**38.4**	**67.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 55

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	77.0	67.2	86.3
Mar 2	74.3	65.2	87.1
Mar 3	79.0	70.0	90.5
Mar 4	84.7	74.8	96.6
Mar 5	86.7	76.0	95.6
Mar 6	75.8	72.4	81.1
Mar 7	86.1	80.9	91.0
Mar 8	88.9	84.8	95.5
Mar 9	91.4	85.3	101.7
Mar 10	91.1	84.7	102.2
Mar 11	91.9	83.1	105.2
Mar 12	92.1	78.4	105.8
Mar 13	93.7	84.6	108.2
Mar 14	97.1	87.7	112.1
Mar 15	96.0	93.6	99.5
Mar 16	96.5	86.2	104.3
Mar 17	87.7	78.1	96.6
Mar 18	95.7	83.9	108.4
Mar 19	101.8	90.8	113.5
Mar 20	90.7	78.2	103.5
Mar 21	89.1	74.3	99.6
Mar 22	93.2	88.6	99.6
Mar 23	100.4	90.0	110.9
Mar 24	97.7	91.3	103.9
Mar 25	100.0	91.3	107.6
Mar 26	102.7	99.5	106.2
Mar 27	106.8	99.3	114.1
Mar 28	112.5	107.3	118.2
Mar 29	112.6	98.5	117.2
Mar 30	114.1	111.2	117.4
Mar 31	109.6	99.2	115.6
Summary	**94.1**	**74.3**	**114.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 56

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	147.3	139.8	152.1
Mar 2	144.3	140.1	149.8
Mar 3	146.8	144.8	151.4
Mar 4	148.1	145.3	153.3
Mar 5	146.4	141.3	150.1
Mar 6	141.7	138.7	144.6
Mar 7	146.2	143.3	148.8
Mar 8	146.2	143.0	149.4
Mar 9	147.0	144.7	151.4
Mar 10	146.2	143.3	150.2
Mar 11	147.4	144.0	153.1
Mar 12	147.6	141.1	154.2
Mar 13	147.2	144.6	151.0
Mar 14	147.8	140.9	154.6
Mar 15	147.7	145.0	150.0
Mar 16	146.7	141.5	152.1
Mar 17	143.2	137.0	149.2
Mar 18	150.0	146.0	155.7
Mar 19	151.7	147.7	156.8
Mar 20	147.3	143.0	151.3
Mar 21	147.4	140.9	153.4
Mar 22	150.8	149.1	154.1
Mar 23	152.5	149.1	157.0
Mar 24	151.1	148.3	153.8
Mar 25	151.3	147.4	155.2
Mar 26	150.6	148.8	154.5
Mar 27	151.2	149.2	154.5
Mar 28	152.8	150.7	156.3
Mar 29	153.0	148.0	155.7
Mar 30	154.2	152.4	155.7
Mar 31	152.7	146.7	155.8
Summary	**148.5**	**141.7**	**154.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 57

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	69.1	49.6	86.8
Mar 2	58.2	43.6	79.8
Mar 3	64.5	42.0	90.4
Mar 4	71.7	52.8	93.6
Mar 5	71.5	52.6	87.1
Mar 6	48.5	45.0	52.9
Mar 7	57.2	42.8	69.6
Mar 8	63.3	53.7	78.5
Mar 9	66.0	51.2	87.4
Mar 10	65.8	50.5	89.2
Mar 11	69.6	46.9	96.8
Mar 12	73.1	47.7	99.1
Mar 13	73.4	53.6	91.8
Mar 14	76.9	57.9	102.1
Mar 15	77.4	67.3	89.2
Mar 16	77.8	68.7	90.6
Mar 17	56.9	50.1	69.9
Mar 18	65.2	41.9	92.8
Mar 19	76.7	52.1	102.3
Mar 20	64.7	48.4	74.6
Mar 21	57.7	43.5	78.0
Mar 22	63.1	43.4	87.0
Mar 23	69.7	44.3	95.8
Mar 24	69.2	59.8	81.0
Mar 25	65.1	52.8	84.0
Mar 26	62.3	51.8	77.1
Mar 27	65.3	41.0	88.5
Mar 28	78.5	62.9	99.8
Mar 29	76.7	62.1	95.2
Mar 30	78.2	69.6	88.8
Mar 31	70.6	64.5	79.3
Summary	**67.9**	**48.5**	**78.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 58

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	78.6	71.2	84.8
Mar 2	73.6	68.7	80.5
Mar 3	77.6	68.4	87.0
Mar 4	81.9	74.2	88.5
Mar 5	80.7	70.4	84.8
Mar 6	68.4	65.6	73.0
Mar 7	75.2	68.0	80.5
Mar 8	78.2	76.0	80.4
Mar 9	79.6	73.7	86.0
Mar 10	80.1	72.6	88.1
Mar 11	80.9	72.8	90.4
Mar 12	81.6	71.1	91.8
Mar 13	81.3	73.8	90.6
Mar 14	83.4	73.6	94.5
Mar 15	84.5	79.9	88.8
Mar 16	83.9	78.5	88.3
Mar 17	72.5	67.7	78.1
Mar 18	78.7	68.5	89.6
Mar 19	85.2	74.8	96.2
Mar 20	78.4	69.7	85.5
Mar 21	73.8	67.1	81.1
Mar 22	78.0	70.8	85.2
Mar 23	82.5	70.0	91.1
Mar 24	80.8	75.3	86.2
Mar 25	80.2	74.6	86.0
Mar 26	77.6	74.4	80.9
Mar 27	78.9	68.1	86.7
Mar 28	86.4	79.6	93.8
Mar 29	86.5	79.3	92.7
Mar 30	87.1	82.8	91.0
Mar 31	82.2	76.8	86.4
Summary	**80.0**	**68.4**	**87.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 59

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	44.5	30.6	65.3
Mar 2	34.0	26.1	48.2
Mar 3	40.1	26.1	64.2
Mar 4	49.8	29.0	70.9
Mar 5	55.6	37.5	67.4
Mar 6	32.5	26.9	36.6
Mar 7	36.2	26.1	49.6
Mar 8	42.9	33.0	55.8
Mar 9	45.8	32.3	66.7
Mar 10	75.6	31.2	120.5
Mar 11	111.3	109.1	113.6
Mar 12	107.7	103.0	111.2
Mar 13	105.9	102.8	109.2
Mar 14	106.3	102.5	111.2
Mar 15	105.9	104.7	107.8
Mar 16	105.6	103.6	107.6
Mar 17	102.9	99.8	106.5
Mar 18	105.2	101.7	108.4
Mar 19	106.1	102.8	109.5
Mar 20	103.4	100.5	105.5
Mar 21	102.7	99.9	104.9
Mar 22	103.1	100.6	105.7
Mar 23	104.1	100.1	107.5
Mar 24	103.7	102.4	105.0
Mar 25	104.7	101.4	108.3
Mar 26	104.5	103.6	105.7
Mar 27	104.1	101.7	106.1
Mar 28	104.9	93.5	108.4
Mar 29	105.9	104.1	107.5
Mar 30	105.8	104.8	106.7
Mar 31	105.3	102.4	107.0
Summary	**86.0**	**32.5**	**111.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 60

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	92.8	80.4	98.5
Mar 2	86.8	78.8	98.0
Mar 3	111.5	82.7	153.3
Mar 4	98.3	87.3	127.1
Mar 5	91.2	74.9	127.2
Mar 6	83.0	68.2	109.1
Mar 7	88.1	78.3	116.3
Mar 8	84.1	80.4	92.2
Mar 9	86.6	78.9	98.2
Mar 10	102.3	76.4	149.0
Mar 11	113.0	102.2	138.1
Mar 12	111.2	99.6	138.4
Mar 13	110.9	100.4	139.7
Mar 14	113.3	101.2	146.1
Mar 15	106.9	104.0	108.9
Mar 16	106.8	93.7	112.4
Mar 17	107.2	93.3	139.0
Mar 18	110.7	98.0	136.5
Mar 19	118.4	104.4	147.7
Mar 20	106.4	92.3	131.3
Mar 21	100.8	87.2	124.8
Mar 22	103.7	98.4	111.3
Mar 23	109.4	99.5	118.5
Mar 24	108.5	100.3	132.6
Mar 25	119.6	102.1	147.7
Mar 26	120.8	115.6	144.1
Mar 27	123.4	114.3	150.4
Mar 28	126.1	119.6	147.3
Mar 29	123.2	118.5	127.4
Mar 30	123.2	121.0	125.3
Mar 31	123.6	110.5	151.4
Summary	**106.8**	**83.0**	**126.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 61

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	43.9	30.9	63.5
Mar 2	34.6	26.3	52.8
Mar 3	41.1	26.3	70.6
Mar 4	51.0	30.6	70.6
Mar 5	55.4	37.5	65.8
Mar 6	32.4	29.6	36.7
Mar 7	36.9	26.3	49.4
Mar 8	44.1	33.6	60.1
Mar 9	47.2	32.7	66.3
Mar 10	47.6	32.5	71.9
Mar 11	49.5	30.8	77.2
Mar 12	54.1	33.5	83.2
Mar 13	55.2	38.2	78.1
Mar 14	61.0	41.9	84.9
Mar 15	62.6	49.4	71.2
Mar 16	64.2	56.2	74.0
Mar 17	44.6	35.8	56.6
Mar 18	48.5	30.5	75.4
Mar 19	60.3	36.3	86.4
Mar 20	52.7	37.0	65.3
Mar 21	43.8	33.2	62.5
Mar 22	49.0	31.0	69.5
Mar 23	54.7	31.1	78.7
Mar 24	56.8	46.7	64.6
Mar 25	51.6	38.0	69.4
Mar 26	48.5	38.7	61.9
Mar 27	92.0	31.0	139.6
Mar 28	138.0	134.1	144.1
Mar 29	136.2	121.9	142.3
Mar 30	136.2	133.2	140.3
Mar 31	123.8	106.0	137.5
Summary	**61.9**	**32.4**	**138.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 62

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	77.5	61.3	86.7
Mar 2	69.3	57.0	86.0
Mar 3	76.4	61.6	92.5
Mar 4	81.1	73.0	91.7
Mar 5	81.1	71.1	90.1
Mar 6	66.9	63.3	70.3
Mar 7	74.8	66.3	83.1
Mar 8	79.7	75.3	89.3
Mar 9	80.9	74.3	92.0
Mar 10	86.4	72.8	104.6
Mar 11	97.6	92.6	104.4
Mar 12	97.0	90.9	104.2
Mar 13	95.5	90.4	102.2
Mar 14	96.4	90.8	105.5
Mar 15	95.4	93.5	97.7
Mar 16	95.6	90.8	101.3
Mar 17	88.7	81.7	96.3
Mar 18	94.1	86.9	103.1
Mar 19	98.0	90.5	106.3
Mar 20	92.1	86.2	98.0
Mar 21	90.1	82.2	97.5
Mar 22	93.3	88.6	99.9
Mar 23	95.4	86.9	103.1
Mar 24	93.7	89.7	98.0
Mar 25	90.2	78.4	99.9
Mar 26	82.8	76.9	91.9
Mar 27	86.2	75.1	96.7
Mar 28	92.9	85.3	102.5
Mar 29	91.5	85.5	100.0
Mar 30	91.9	88.0	98.0
Mar 31	87.0	77.6	92.8
Summary	**87.7**	**66.9**	**98.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 63

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	86.2	76.6	92.9
Mar 2	82.1	75.2	91.3
Mar 3	86.2	77.0	95.7
Mar 4	88.0	82.2	98.0
Mar 5	87.0	79.0	94.5
Mar 6	77.1	74.2	78.5
Mar 7	83.2	78.2	89.3
Mar 8	85.4	82.1	92.0
Mar 9	86.8	81.5	96.3
Mar 10	84.6	78.9	93.9
Mar 11	83.5	73.2	96.7
Mar 12	84.9	72.5	97.0
Mar 13	83.4	73.9	94.1
Mar 14	85.2	74.2	100.2
Mar 15	84.2	80.4	88.0
Mar 16	83.9	77.0	92.4
Mar 17	70.3	58.1	83.4
Mar 18	79.7	65.2	94.8
Mar 19	86.1	72.7	100.7
Mar 20	75.7	65.2	84.2
Mar 21	72.1	61.2	84.1
Mar 22	75.8	65.2	87.7
Mar 23	79.7	63.0	94.1
Mar 24	76.5	69.0	84.5
Mar 25	73.5	64.3	87.1
Mar 26	69.7	62.7	81.8
Mar 27	70.6	54.9	85.6
Mar 28	78.7	66.7	93.2
Mar 29	77.1	67.4	90.6
Mar 30	77.4	70.6	85.7
Mar 31	71.5	64.0	82.0
Summary	**80.2**	**69.7**	**88.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 64

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	98.6	87.0	106.8
Mar 2	92.6	85.9	98.6
Mar 3	97.7	85.9	105.4
Mar 4	100.3	94.2	107.0
Mar 5	99.8	90.1	108.1
Mar 6	89.1	86.2	93.3
Mar 7	97.0	91.0	102.1
Mar 8	99.2	95.7	102.2
Mar 9	101.0	94.9	107.6
Mar 10	101.4	93.7	109.0
Mar 11	103.2	96.4	110.6
Mar 12	104.8	95.7	113.4
Mar 13	104.9	96.4	113.4
Mar 14	105.7	98.7	116.8
Mar 15	105.1	103.2	107.6
Mar 16	104.7	98.1	109.6
Mar 17	94.7	87.6	100.6
Mar 18	101.8	90.1	109.8
Mar 19	107.6	97.2	116.4
Mar 20	99.2	90.6	108.4
Mar 21	95.2	86.7	103.9
Mar 22	100.2	93.4	105.7
Mar 23	103.9	93.1	113.1
Mar 24	101.4	96.9	106.7
Mar 25	102.8	96.0	108.7
Mar 26	104.8	100.9	107.8
Mar 27	106.4	97.6	113.3
Mar 28	111.7	105.6	117.6
Mar 29	110.8	102.5	115.5
Mar 30	111.3	107.3	114.5
Mar 31	108.2	102.8	113.0
Summary	**102.1**	**89.1**	**111.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 65

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	122.7	109.2	129.6
Mar 2	114.8	107.0	122.5
Mar 3	116.9	103.2	126.9
Mar 4	121.0	115.2	129.3
Mar 5	120.3	115.5	126.8
Mar 6	105.4	96.9	116.4
Mar 7	112.7	105.6	119.4
Mar 8	117.4	111.1	122.6
Mar 9	113.3	107.8	119.8
Mar 10	120.3	66.9	140.8
Mar 11	139.8	137.6	143.0
Mar 12	101.5	49.6	139.0
Mar 13	56.9	39.0	77.7
Mar 14	63.4	42.5	93.8
Mar 15	62.9	50.3	71.2
Mar 16	64.8	56.5	76.2
Mar 17	80.9	39.2	139.2
Mar 18	138.6	135.7	141.5
Mar 19	133.0	128.9	136.8
Mar 20	134.3	129.2	137.5
Mar 21	138.7	135.5	141.3
Mar 22	139.7	138.6	141.3
Mar 23	140.8	138.4	143.2
Mar 24	138.4	136.5	140.4
Mar 25	139.1	136.7	142.5
Mar 26	139.8	139.0	140.8
Mar 27	140.0	137.9	141.4
Mar 28	140.1	139.0	141.2
Mar 29	137.7	135.3	139.0
Mar 30	136.0	135.3	136.9
Mar 31	136.1	133.7	138.6
Summary	**118.3**	**56.9**	**140.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 66

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	112.4	95.6	129.2
Mar 2	108.5	95.2	120.0
Mar 3	115.0	103.2	127.0
Mar 4	113.6	104.2	127.6
Mar 5	106.1	89.9	125.7
Mar 6	94.3	87.8	105.8
Mar 7	111.8	103.8	119.7
Mar 8	113.9	104.0	121.0
Mar 9	116.3	108.4	125.6
Mar 10	114.5	104.4	126.0
Mar 11	116.7	107.3	126.7
Mar 12	112.9	96.6	125.9
Mar 13	110.8	101.5	123.8
Mar 14	111.8	99.4	129.3
Mar 15	111.9	104.2	118.3
Mar 16	108.8	91.9	122.2
Mar 17	98.8	81.8	111.6
Mar 18	114.8	98.3	128.5
Mar 19	123.0	110.3	136.9
Mar 20	108.9	93.7	125.8
Mar 21	106.3	89.1	118.3
Mar 22	112.2	105.3	117.1
Mar 23	116.2	105.6	133.3
Mar 24	92.5	81.2	105.3
Mar 25	97.4	71.9	120.6
Mar 26	114.9	106.9	119.8
Mar 27	117.3	102.0	126.8
Mar 28	123.4	117.4	130.1
Mar 29	120.8	96.2	130.4
Mar 30	123.8	118.0	129.7
Mar 31	114.2	96.9	128.3
Summary	**111.7**	**92.5**	**123.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 67

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	134.6	121.4	143.9
Mar 2	129.8	121.0	136.1
Mar 3	134.3	128.0	139.7
Mar 4	135.0	132.1	141.4
Mar 5	131.1	116.8	139.4
Mar 6	119.2	116.0	125.6
Mar 7	128.9	123.5	134.5
Mar 8	129.5	123.3	134.5
Mar 9	130.3	126.7	134.9
Mar 10	130.3	123.9	136.7
Mar 11	132.6	125.9	138.1
Mar 12	135.4	127.6	141.9
Mar 13	137.6	131.1	142.8
Mar 14	136.6	127.8	144.5
Mar 15	137.3	130.8	141.4
Mar 16	133.8	123.9	145.0
Mar 17	118.0	111.0	125.2
Mar 18	129.4	118.3	136.8
Mar 19	134.6	125.0	142.1
Mar 20	124.4	110.8	137.9
Mar 21	119.4	105.5	129.7
Mar 22	125.1	120.7	129.2
Mar 23	130.6	118.6	137.6
Mar 24	128.1	121.6	134.3
Mar 25	126.9	117.9	134.3
Mar 26	123.9	117.5	127.9
Mar 27	128.3	118.0	135.4
Mar 28	134.6	129.0	138.0
Mar 29	135.6	130.3	140.3
Mar 30	138.0	135.1	140.2
Mar 31	112.1	81.9	139.0
Summary	**129.8**	**112.1**	**138.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 68

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	130.3	126.3	132.4
Mar 2	131.9	128.3	134.7
Mar 3	131.9	114.0	136.9
Mar 4	133.6	129.4	137.6
Mar 5	131.7	127.7	138.2
Mar 6	129.9	126.6	133.0
Mar 7	131.0	129.5	133.7
Mar 8	130.1	128.0	131.9
Mar 9	130.7	128.2	132.5
Mar 10	131.7	129.0	136.1
Mar 11	131.2	128.6	134.8
Mar 12	125.8	116.4	133.6
Mar 13	124.8	112.1	134.9
Mar 14	130.4	124.6	137.9
Mar 15	132.0	128.2	135.2
Mar 16	129.6	126.0	132.9
Mar 17	125.4	117.5	131.7
Mar 18	132.1	128.9	137.5
Mar 19	136.2	130.2	143.3
Mar 20	132.3	128.6	135.9
Mar 21	130.4	126.4	134.6
Mar 22	131.0	129.1	132.7
Mar 23	132.6	129.4	135.0
Mar 24	131.5	128.4	135.3
Mar 25	130.7	126.0	135.3
Mar 26	130.1	127.9	132.2
Mar 27	131.7	127.6	135.0
Mar 28	133.7	130.4	136.8
Mar 29	133.0	128.9	135.3
Mar 30	133.4	132.2	134.7
Mar 31	137.4	124.4	154.0
Summary	**131.2**	**124.8**	**137.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 69

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	68.8	57.5	84.0
Mar 2	62.5	51.8	78.4
Mar 3	67.4	54.4	85.1
Mar 4	72.5	61.4	86.9
Mar 5	73.1	62.6	85.3
Mar 6	59.7	57.3	63.6
Mar 7	64.6	56.8	72.9
Mar 8	69.0	62.6	80.6
Mar 9	70.3	62.3	84.9
Mar 10	73.7	60.2	91.0
Mar 11	85.3	78.6	94.5
Mar 12	87.1	79.3	95.9
Mar 13	86.3	80.7	93.1
Mar 14	87.9	81.4	97.1
Mar 15	87.8	85.2	91.7
Mar 16	88.2	84.7	93.4
Mar 17	82.6	77.8	91.5
Mar 18	86.4	79.5	95.8
Mar 19	89.8	82.7	100.0
Mar 20	85.6	80.4	89.9
Mar 21	83.8	78.4	91.3
Mar 22	85.6	79.8	94.5
Mar 23	87.2	78.4	95.7
Mar 24	85.5	82.0	91.1
Mar 25	87.9	79.6	97.3
Mar 26	96.8	94.8	99.6
Mar 27	99.6	96.5	103.0
Mar 28	102.5	100.3	105.7
Mar 29	102.5	101.0	105.1
Mar 30	102.3	101.3	103.6
Mar 31	100.9	98.3	103.0
Summary	**83.3**	**59.7**	**102.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 70

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	45.0	33.4	63.3
Mar 2	38.2	29.8	57.3
Mar 3	43.0	29.8	67.4
Mar 4	50.0	31.9	71.5
Mar 5	55.0	40.0	66.9
Mar 6	35.4	29.8	40.0
Mar 7	39.0	29.8	51.7
Mar 8	45.3	34.0	61.9
Mar 9	46.8	34.0	68.5
Mar 10	47.1	33.0	72.1
Mar 11	49.9	30.4	79.1
Mar 12	52.8	33.4	83.6
Mar 13	54.8	37.3	77.6
Mar 14	59.6	39.7	87.9
Mar 15	60.7	47.8	74.7
Mar 16	62.5	50.7	74.8
Mar 17	46.8	35.8	62.1
Mar 18	50.2	31.1	79.5
Mar 19	58.5	36.1	87.9
Mar 20	51.0	39.4	58.8
Mar 21	46.6	34.5	66.7
Mar 22	49.4	30.7	74.7
Mar 23	54.3	31.8	80.9
Mar 24	56.2	49.2	67.6
Mar 25	51.9	37.2	74.4
Mar 26	50.8	38.4	70.5
Mar 27	52.2	31.4	78.1
Mar 28	64.1	47.0	88.2
Mar 29	62.6	47.3	84.2
Mar 30	62.8	54.7	75.4
Mar 31	58.3	53.3	67.5
Summary	**51.6**	**35.4**	**64.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 71

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	129.4	125.1	131.7
Mar 2	129.2	126.3	131.3
Mar 3	131.1	129.1	133.1
Mar 4	130.4	127.4	132.4
Mar 5	128.4	124.6	132.0
Mar 6	127.3	125.7	129.9
Mar 7	130.7	129.1	132.0
Mar 8	130.9	128.4	132.2
Mar 9	131.5	130.1	133.2
Mar 10	131.1	129.4	132.8
Mar 11	131.7	130.0	134.3
Mar 12	131.7	129.7	134.3
Mar 13	131.0	130.0	133.0
Mar 14	131.2	128.5	134.1
Mar 15	130.1	127.1	131.8
Mar 16	129.5	122.2	133.3
Mar 17	128.6	125.0	131.5
Mar 18	131.8	129.8	134.7
Mar 19	133.1	131.5	136.0
Mar 20	129.4	126.6	133.2
Mar 21	129.7	126.9	132.0
Mar 22	131.1	129.4	131.7
Mar 23	132.1	130.7	133.8
Mar 24	130.4	128.4	131.8
Mar 25	131.4	129.8	132.8
Mar 26	132.0	130.4	133.3
Mar 27	132.9	131.4	134.1
Mar 28	133.6	132.1	135.3
Mar 29	133.2	131.4	134.8
Mar 30	133.4	132.4	134.3
Mar 31	131.5	125.7	133.7
Summary	**131.0**	**127.3**	**133.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 72

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	127.6	120.2	130.9
Mar 2	126.9	122.5	131.0
Mar 3	130.2	127.6	134.0
Mar 4	130.3	127.3	133.2
Mar 5	128.3	123.5	133.1
Mar 6	124.0	121.0	127.7
Mar 7	129.9	127.7	132.1
Mar 8	129.6	124.9	131.7
Mar 9	130.8	128.8	133.4
Mar 10	130.9	127.5	133.6
Mar 11	131.3	128.7	135.5
Mar 12	131.5	128.2	134.9
Mar 13	131.1	128.9	134.8
Mar 14	131.3	128.2	135.6
Mar 15	130.3	127.2	131.9
Mar 16	129.5	125.9	134.1
Mar 17	126.0	119.9	129.8
Mar 18	131.6	127.6	135.5
Mar 19	133.5	131.0	137.3
Mar 20	128.8	124.5	134.1
Mar 21	128.2	121.6	132.0
Mar 22	130.2	128.2	131.5
Mar 23	131.8	128.8	135.2
Mar 24	130.1	128.0	132.6
Mar 25	130.1	126.1	133.4
Mar 26	129.8	128.1	131.3
Mar 27	131.8	129.4	133.9
Mar 28	133.5	131.0	135.8
Mar 29	132.8	123.7	135.5
Mar 30	133.7	132.2	135.1
Mar 31	130.1	124.8	134.5
Summary	**130.2**	**124.0**	**133.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 73

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	107.7	106.5	108.8
Mar 2	107.8	106.6	109.7
Mar 3	108.9	107.4	110.7
Mar 4	108.9	107.7	110.5
Mar 5	106.8	105.0	108.2
Mar 6	105.4	104.7	106.7
Mar 7	106.6	106.0	107.4
Mar 8	106.8	106.1	108.4
Mar 9	107.9	106.7	109.7
Mar 10	107.7	106.8	109.7
Mar 11	107.5	105.9	110.0
Mar 12	107.0	105.3	109.1
Mar 13	105.7	104.3	107.6
Mar 14	105.7	104.0	108.4
Mar 15	105.4	104.9	106.3
Mar 16	105.1	103.8	106.5
Mar 17	103.6	101.9	105.6
Mar 18	104.8	103.0	107.2
Mar 19	105.5	103.8	108.0
Mar 20	103.5	102.3	104.7
Mar 21	103.3	101.6	105.1
Mar 22	103.7	102.5	105.4
Mar 23	104.1	102.2	106.1
Mar 24	103.6	102.8	104.8
Mar 25	103.9	102.7	105.6
Mar 26	104.6	103.7	105.6
Mar 27	104.9	103.5	106.6
Mar 28	105.5	104.4	107.2
Mar 29	104.9	103.4	106.5
Mar 30	104.9	104.2	105.7
Mar 31	104.3	102.0	105.3
Summary	**105.7**	**103.3**	**108.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 74

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	117.3	105.4	123.5
Mar 2	114.2	105.8	121.3
Mar 3	119.0	113.6	123.7
Mar 4	119.2	113.4	124.5
Mar 5	119.8	111.7	128.8
Mar 6	111.8	107.9	116.4
Mar 7	120.2	116.1	125.1
Mar 8	119.7	112.3	124.7
Mar 9	120.9	117.8	124.8
Mar 10	122.5	118.6	127.5
Mar 11	123.9	121.1	128.5
Mar 12	124.7	120.8	130.4
Mar 13	124.8	121.9	129.6
Mar 14	123.7	117.7	130.0
Mar 15	121.9	116.3	127.2
Mar 16	121.4	115.3	129.8
Mar 17	114.4	106.0	120.7
Mar 18	122.8	115.2	129.3
Mar 19	127.3	122.1	133.7
Mar 20	120.6	113.8	131.0
Mar 21	117.2	109.5	124.3
Mar 22	122.0	118.8	124.3
Mar 23	123.7	117.8	128.6
Mar 24	121.1	115.6	126.2
Mar 25	121.1	114.0	125.6
Mar 26	118.7	115.5	121.1
Mar 27	121.7	118.1	125.2
Mar 28	125.7	122.2	129.8
Mar 29	125.9	114.3	130.9
Mar 30	127.8	125.4	130.7
Mar 31	125.0	114.3	130.6
Summary	**121.3**	**111.8**	**127.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 75

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	113.7	103.9	118.6
Mar 2	112.8	107.2	116.9
Mar 3	115.8	111.5	119.5
Mar 4	115.1	109.9	119.6
Mar 5	112.3	106.4	118.3
Mar 6	107.2	104.5	112.7
Mar 7	114.4	111.5	116.6
Mar 8	113.5	107.3	116.3
Mar 9	115.2	111.4	118.8
Mar 10	116.7	110.7	123.3
Mar 11	120.8	118.4	123.4
Mar 12	120.9	117.8	123.9
Mar 13	120.4	118.3	123.6
Mar 14	119.6	116.3	124.6
Mar 15	118.5	115.4	120.8
Mar 16	117.9	111.7	121.8
Mar 17	115.1	110.3	118.4
Mar 18	120.0	116.5	123.6
Mar 19	121.6	118.6	125.1
Mar 20	117.1	112.0	122.5
Mar 21	116.4	109.4	120.9
Mar 22	118.3	116.0	120.2
Mar 23	120.2	117.2	123.7
Mar 24	118.1	116.0	120.9
Mar 25	117.7	112.8	120.9
Mar 26	117.3	114.7	119.2
Mar 27	119.3	117.1	122.0
Mar 28	120.9	118.1	123.6
Mar 29	120.6	114.4	123.1
Mar 30	121.1	119.6	122.3
Mar 31	118.6	114.8	122.1
Summary	**117.3**	**107.2**	**121.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 76

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	127.7	127.3	127.9
Mar 2	127.8	127.3	128.4
Mar 3	128.2	127.8	128.7
Mar 4	128.0	127.6	128.6
Mar 5	127.4	127.0	127.8
Mar 6	127.2	126.9	127.7
Mar 7	127.9	127.7	128.3
Mar 8	127.8	127.6	128.1
Mar 9	128.0	127.6	128.4
Mar 10	127.9	127.6	128.5
Mar 11	127.8	127.3	128.4
Mar 12	127.5	127.0	128.2
Mar 13	127.1	126.8	127.6
Mar 14	127.2	126.7	128.2
Mar 15	127.0	126.8	127.3
Mar 16	126.9	126.6	127.3
Mar 17	126.7	126.1	127.2
Mar 18	127.2	126.7	127.8
Mar 19	127.3	126.8	127.9
Mar 20	126.8	126.4	127.3
Mar 21	126.7	126.3	127.1
Mar 22	126.8	126.5	127.2
Mar 23	126.9	126.5	127.5
Mar 24	126.7	126.5	127.0
Mar 25	126.7	126.4	127.0
Mar 26	126.6	126.3	127.1
Mar 27	126.8	126.4	127.2
Mar 28	127.0	126.7	127.5
Mar 29	126.8	126.4	127.3
Mar 30	126.9	126.7	127.2
Mar 31	126.7	125.9	127.1
Summary	**127.2**	**126.6**	**128.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 77

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	47.8	34.2	68.9
Mar 2	38.7	29.9	57.0
Mar 3	45.8	29.9	69.6
Mar 4	53.0	31.5	75.6
Mar 5	57.2	39.1	72.4
Mar 6	33.5	29.9	38.6
Mar 7	39.6	29.9	55.0
Mar 8	46.3	37.3	61.4
Mar 9	49.6	34.1	72.4
Mar 10	50.2	34.0	73.0
Mar 11	54.6	30.9	82.5
Mar 12	59.7	35.9	86.0
Mar 13	60.5	40.4	80.6
Mar 14	64.9	44.4	91.8
Mar 15	64.5	52.3	73.0
Mar 16	65.8	55.8	78.4
Mar 17	45.8	37.2	58.7
Mar 18	52.7	29.9	78.7
Mar 19	64.0	39.2	89.6
Mar 20	53.1	37.2	65.0
Mar 21	48.0	33.8	65.1
Mar 22	50.8	30.8	73.4
Mar 23	58.3	32.9	81.9
Mar 24	57.7	46.8	68.4
Mar 25	54.6	40.5	73.4
Mar 26	51.4	41.4	69.1
Mar 27	54.2	31.9	76.8
Mar 28	67.1	49.4	87.9
Mar 29	65.6	50.8	84.0
Mar 30	64.8	56.2	79.2
Mar 31	59.1	51.9	68.4
Summary	**54.2**	**33.5**	**67.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 78

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	94.7	85.6	99.9
Mar 2	93.6	82.8	106.8
Mar 3	101.9	94.4	112.0
Mar 4	102.5	97.9	109.0
Mar 5	101.6	94.8	107.9
Mar 6	94.1	91.2	99.9
Mar 7	100.0	95.5	102.6
Mar 8	98.7	95.4	104.4
Mar 9	98.8	94.7	106.1
Mar 10	101.8	93.8	112.0
Mar 11	103.2	97.8	110.6
Mar 12	104.4	97.2	111.6
Mar 13	104.8	99.9	110.4
Mar 14	106.1	101.0	114.0
Mar 15	104.8	103.6	107.2
Mar 16	102.2	98.3	105.9
Mar 17	99.4	91.2	105.8
Mar 18	105.0	99.5	113.7
Mar 19	107.2	102.3	113.9
Mar 20	102.0	95.6	105.9
Mar 21	101.0	95.0	106.7
Mar 22	102.4	99.8	106.9
Mar 23	103.8	98.6	109.8
Mar 24	103.2	98.9	107.3
Mar 25	104.1	99.7	109.7
Mar 26	103.1	100.8	107.1
Mar 27	105.0	100.0	111.1
Mar 28	107.1	104.2	112.4
Mar 29	107.8	103.9	112.5
Mar 30	108.3	105.5	112.3
Mar 31	106.0	101.1	109.1
Summary	**102.5**	**93.6**	**108.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 79

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	135.5	123.8	143.3
Mar 2	136.2	128.5	141.3
Mar 3	140.1	135.9	144.0
Mar 4	136.6	127.7	144.2
Mar 5	130.7	68.8	141.7
Mar 6	131.2	128.0	138.2
Mar 7	139.6	135.6	142.3
Mar 8	138.2	130.2	142.8
Mar 9	140.1	135.9	142.9
Mar 10	139.6	136.8	142.0
Mar 11	141.7	139.0	145.6
Mar 12	142.3	139.2	145.3
Mar 13	141.3	138.2	144.8
Mar 14	139.7	132.3	145.3
Mar 15	136.5	127.8	143.1
Mar 16	136.0	129.3	143.8
Mar 17	133.4	123.3	140.9
Mar 18	141.3	135.2	146.2
Mar 19	143.2	137.3	147.9
Mar 20	135.8	128.5	145.3
Mar 21	135.7	127.3	142.5
Mar 22	138.7	134.3	141.9
Mar 23	141.2	137.1	144.4
Mar 24	137.5	132.4	141.8
Mar 25	138.7	131.3	143.3
Mar 26	139.5	135.9	143.6
Mar 27	142.4	138.4	145.3
Mar 28	144.2	141.7	146.4
Mar 29	143.9	131.5	146.6
Mar 30	145.2	142.6	147.0
Mar 31	141.5	133.7	146.4
Summary	**139.0**	**130.7**	**145.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 80

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	46.0	32.1	68.7
Mar 2	37.9	29.8	56.1
Mar 3	45.3	29.8	69.9
Mar 4	52.1	29.8	74.3
Mar 5	56.1	37.5	72.0
Mar 6	32.7	29.8	38.4
Mar 7	39.4	29.8	53.3
Mar 8	45.0	33.3	59.7
Mar 9	48.2	32.1	73.1
Mar 10	48.4	32.1	77.2
Mar 11	52.1	29.8	80.3
Mar 12	58.1	33.0	85.8
Mar 13	57.1	38.2	80.1
Mar 14	64.5	42.3	92.7
Mar 15	63.4	49.9	72.7
Mar 16	65.3	51.6	78.0
Mar 17	45.5	34.4	58.4
Mar 18	50.3	29.8	77.7
Mar 19	62.4	35.6	89.2
Mar 20	52.9	36.9	64.3
Mar 21	45.3	32.9	64.2
Mar 22	51.4	29.8	73.7
Mar 23	57.2	30.4	82.5
Mar 24	57.9	48.2	69.1
Mar 25	53.6	37.1	75.1
Mar 26	50.7	37.3	66.9
Mar 27	53.7	29.8	78.9
Mar 28	65.5	48.3	88.6
Mar 29	64.0	48.9	84.8
Mar 30	64.5	55.7	78.6
Mar 31	58.6	52.9	70.1
Summary	**53.1**	**32.7**	**65.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 81

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	165.3	158.8	168.9
Mar 2	164.9	161.5	167.4
Mar 3	166.9	164.9	168.4
Mar 4	165.8	161.1	168.6
Mar 5	164.2	159.4	169.8
Mar 6	162.4	160.1	166.0
Mar 7	167.1	165.3	169.0
Mar 8	166.4	162.1	169.2
Mar 9	167.3	164.0	169.0
Mar 10	167.6	165.6	169.2
Mar 11	168.6	167.3	169.5
Mar 12	169.4	167.3	171.0
Mar 13	170.1	168.1	171.9
Mar 14	168.7	163.9	171.5
Mar 15	166.4	160.8	170.5
Mar 16	165.4	158.3	171.6
Mar 17	164.3	159.6	167.5
Mar 18	167.5	164.5	169.8
Mar 19	168.9	166.2	170.8
Mar 20	165.0	160.1	170.7
Mar 21	164.7	160.3	168.6
Mar 22	166.2	163.0	168.5
Mar 23	167.9	165.9	169.8
Mar 24	166.1	163.6	168.9
Mar 25	166.6	163.6	169.3
Mar 26	165.0	163.2	166.9
Mar 27	165.3	163.9	166.5
Mar 28	166.1	164.3	167.3
Mar 29	166.6	162.5	167.9
Mar 30	167.1	165.7	168.0
Mar 31	165.7	161.1	167.9
Summary	**166.4**	**162.4**	**170.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 82

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	168.7	163.4	173.1
Mar 2	168.9	165.8	171.3
Mar 3	170.4	168.7	171.9
Mar 4	169.7	165.7	171.9
Mar 5	168.3	164.8	174.0
Mar 6	165.7	163.2	171.0
Mar 7	170.9	168.3	172.6
Mar 8	170.4	166.3	172.7
Mar 9	170.9	169.6	172.5
Mar 10	172.4	169.6	174.7
Mar 11	173.4	171.8	174.9
Mar 12	173.1	171.1	174.5
Mar 13	173.4	171.7	175.2
Mar 14	172.3	169.3	173.7
Mar 15	171.1	167.9	174.0
Mar 16	170.1	165.9	174.7
Mar 17	169.0	162.3	172.4
Mar 18	172.4	170.5	174.4
Mar 19	173.6	171.1	175.4
Mar 20	169.7	163.6	175.0
Mar 21	169.7	165.6	173.7
Mar 22	170.6	165.5	173.6
Mar 23	172.5	170.9	174.0
Mar 24	170.4	166.4	173.4
Mar 25	171.3	167.9	173.2
Mar 26	171.3	168.3	173.5
Mar 27	172.6	171.1	174.0
Mar 28	173.3	170.9	174.9
Mar 29	173.6	165.2	175.3
Mar 30	174.6	172.4	175.6
Mar 31	171.8	168.3	175.3
Summary	**171.2**	**165.7**	**174.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 83

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	152.8	119.5	170.6
Mar 2	150.0	138.8	165.4
Mar 3	157.6	147.5	167.5
Mar 4	164.8	154.4	173.1
Mar 5	159.0	129.8	179.3
Mar 6	144.5	133.3	159.8
Mar 7	160.9	142.7	175.2
Mar 8	157.9	129.5	174.2
Mar 9	160.4	143.2	176.7
Mar 10	162.3	148.2	175.7
Mar 11	153.1	148.3	161.2
Mar 12	159.5	153.0	166.8
Mar 13	164.2	157.9	169.3
Mar 14	158.8	146.0	167.3
Mar 15	159.7	146.6	168.8
Mar 16	157.4	140.3	170.4
Mar 17	144.1	132.8	153.8
Mar 18	145.0	137.8	154.2
Mar 19	150.7	142.6	155.2
Mar 20	143.8	129.7	157.7
Mar 21	137.2	118.3	150.3
Mar 22	142.6	132.4	156.8
Mar 23	147.7	136.2	156.4
Mar 24	142.3	130.5	155.0
Mar 25	140.7	116.9	161.5
Mar 26	136.2	126.1	146.0
Mar 27	137.5	125.4	149.2
Mar 28	145.0	136.6	153.3
Mar 29	152.6	122.6	159.9
Mar 30	156.8	150.6	163.1
Mar 31	147.7	120.2	176.1
Summary	**151.4**	**136.2**	**164.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 84

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	182.9	181.6	183.8
Mar 2	182.3	181.5	183.0
Mar 3	182.6	181.9	183.4
Mar 4	182.7	182.3	183.6
Mar 5	183.0	182.0	184.1
Mar 6	181.6	181.2	182.3
Mar 7	182.3	181.8	182.9
Mar 8	182.3	181.7	182.9
Mar 9	182.2	181.7	182.8
Mar 10	182.3	180.3	183.5
Mar 11	183.0	182.3	183.9
Mar 12	183.4	182.3	184.7
Mar 13	183.3	182.5	185.5
Mar 14	182.1	181.4	182.7
Mar 15	181.6	181.3	182.0
Mar 16	181.3	180.3	181.9
Mar 17	180.3	179.9	180.7
Mar 18	180.2	179.7	180.5
Mar 19	180.1	179.8	180.5
Mar 20	179.5	178.8	180.1
Mar 21	178.8	178.2	179.3
Mar 22	178.8	178.3	179.2
Mar 23	178.8	178.3	179.3
Mar 24	178.5	177.8	178.9
Mar 25	178.2	177.7	178.9
Mar 26	177.8	177.4	178.1
Mar 27	177.7	177.3	178.1
Mar 28	177.9	177.5	178.2
Mar 29	177.8	177.4	178.3
Mar 30	177.9	177.7	178.3
Mar 31	177.6	173.7	183.1
Summary	**180.6**	**177.6**	**183.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 85

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	79.9	49.2	92.9
Mar 2	48.5	34.8	72.6
Mar 3	62.6	35.7	102.2
Mar 4	69.7	54.6	91.6
Mar 5	68.9	49.5	82.1
Mar 6	44.6	41.0	47.9
Mar 7	55.6	41.1	70.0
Mar 8	61.9	51.9	74.2
Mar 9	62.1	50.1	83.2
Mar 10	62.1	45.5	88.2
Mar 11	66.5	47.8	93.5
Mar 12	68.4	48.6	94.0
Mar 13	66.3	49.3	86.5
Mar 14	69.1	50.4	98.3
Mar 15	69.6	58.3	82.4
Mar 16	69.2	59.2	80.8
Mar 17	50.7	42.4	65.2
Mar 18	58.0	35.9	89.0
Mar 19	71.5	46.7	99.3
Mar 20	61.2	44.3	73.5
Mar 21	53.7	39.8	73.8
Mar 22	57.4	41.0	76.8
Mar 23	63.6	40.4	88.1
Mar 24	63.0	52.2	72.7
Mar 25	60.9	46.9	79.3
Mar 26	59.6	51.8	75.6
Mar 27	63.4	45.2	87.8
Mar 28	117.5	61.5	158.1
Mar 29	153.7	144.8	156.1
Mar 30	153.2	151.8	154.8
Mar 31	151.4	139.7	157.8
Summary	**73.0**	**44.6**	**153.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 86

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	148.6	147.2	149.6
Mar 2	147.8	147.1	148.5
Mar 3	148.1	147.2	148.9
Mar 4	148.5	147.7	149.4
Mar 5	149.2	148.1	150.2
Mar 6	147.4	147.0	148.0
Mar 7	148.1	147.4	148.8
Mar 8	148.1	147.4	148.8
Mar 9	148.0	147.5	148.7
Mar 10	148.3	147.4	149.4
Mar 11	148.5	147.7	149.4
Mar 12	148.9	147.7	150.1
Mar 13	149.4	148.6	150.2
Mar 14	149.4	148.5	150.7
Mar 15	149.4	149.1	149.6
Mar 16	149.3	147.6	150.4
Mar 17	147.6	147.0	148.6
Mar 18	147.9	146.8	148.7
Mar 19	148.5	147.5	149.5
Mar 20	147.9	146.8	149.0
Mar 21	147.1	146.1	147.9
Mar 22	147.6	146.9	148.3
Mar 23	147.9	146.8	148.7
Mar 24	147.7	147.0	148.5
Mar 25	147.5	146.7	148.3
Mar 26	147.0	146.3	147.4
Mar 27	147.2	146.1	147.9
Mar 28	147.8	147.1	148.5
Mar 29	148.1	147.4	148.8
Mar 30	148.3	147.8	148.7
Mar 31	147.3	127.7	150.6
Summary	**148.1**	**147.0**	**149.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 87

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	152.6	137.5	164.3
Mar 2	155.0	143.3	161.8
Mar 3	159.9	155.7	163.3
Mar 4	156.7	147.9	163.1
Mar 5	148.1	133.5	162.2
Mar 6	143.2	136.0	158.6
Mar 7	159.4	156.9	162.8
Mar 8	156.8	145.0	162.9
Mar 9	159.6	151.2	162.6
Mar 10	158.7	153.9	163.3
Mar 11	160.5	155.1	164.0
Mar 12	161.2	157.3	164.7
Mar 13	162.4	158.3	165.8
Mar 14	160.1	152.8	166.1
Mar 15	157.4	146.1	164.6
Mar 16	154.0	145.7	166.6
Mar 17	149.9	134.8	160.5
Mar 18	159.8	156.2	163.9
Mar 19	160.7	155.7	165.6
Mar 20	149.1	132.7	163.4
Mar 21	149.9	133.8	162.0
Mar 22	152.3	141.6	161.2
Mar 23	158.2	154.5	162.9
Mar 24	151.0	141.3	158.7
Mar 25	152.2	139.4	161.6
Mar 26	151.3	142.3	159.5
Mar 27	156.3	152.5	160.5
Mar 28	157.2	152.8	161.0
Mar 29	156.8	138.6	162.7
Mar 30	158.0	154.2	160.7
Mar 31	150.2	141.6	159.4
Summary	**155.4**	**143.2**	**162.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 88

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	163.4	162.2	164.1
Mar 2	163.0	162.2	163.8
Mar 3	163.7	162.9	164.8
Mar 4	164.5	163.7	165.5
Mar 5	165.0	163.4	166.2
Mar 6	163.0	162.4	163.7
Mar 7	164.1	163.3	165.0
Mar 8	164.0	163.3	164.7
Mar 9	164.1	163.3	165.1
Mar 10	164.9	163.7	165.8
Mar 11	165.0	164.3	166.0
Mar 12	166.1	165.0	167.0
Mar 13	167.6	167.1	168.7
Mar 14	167.1	165.5	167.9
Mar 15	167.2	166.3	167.6
Mar 16	166.8	165.0	167.8
Mar 17	165.3	164.0	166.3
Mar 18	164.4	163.6	165.6
Mar 19	165.0	164.4	165.7
Mar 20	164.7	163.4	166.3
Mar 21	164.2	163.0	165.1
Mar 22	164.3	163.8	165.0
Mar 23	164.9	164.4	165.7
Mar 24	164.8	164.3	165.5
Mar 25	165.2	164.3	166.3
Mar 26	164.6	164.2	165.1
Mar 27	164.5	163.6	165.4
Mar 28	165.3	164.8	166.2
Mar 29	165.9	165.1	166.4
Mar 30	166.5	165.7	167.1
Mar 31	166.3	164.6	168.4
Summary	**165.0**	**163.0**	**167.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 89

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	165.0	152.0	172.0
Mar 2	160.9	152.5	167.0
Mar 3	164.3	159.0	169.9
Mar 4	161.9	156.1	170.3
Mar 5	157.1	144.2	167.9
Mar 6	137.3	132.0	149.9
Mar 7	154.5	149.5	160.3
Mar 8	155.2	145.7	161.2
Mar 9	157.7	152.3	164.9
Mar 10	158.9	152.0	167.0
Mar 11	159.8	154.0	168.4
Mar 12	161.1	154.9	167.1
Mar 13	163.2	158.6	171.3
Mar 14	163.8	157.4	171.4
Mar 15	162.3	157.4	166.0
Mar 16	160.2	143.1	167.8
Mar 17	151.2	143.4	157.6
Mar 18	160.4	152.3	169.0
Mar 19	165.7	159.9	171.9
Mar 20	155.6	143.2	170.0
Mar 21	152.4	139.2	163.6
Mar 22	157.7	152.7	161.1
Mar 23	163.3	156.7	169.9
Mar 24	158.7	153.1	164.9
Mar 25	163.1	155.8	169.3
Mar 26	162.2	158.1	165.1
Mar 27	165.2	159.3	169.7
Mar 28	169.4	166.9	172.3
Mar 29	170.9	161.7	174.3
Mar 30	172.3	170.1	174.8
Mar 31	169.2	159.8	174.1
Summary	**160.7**	**137.3**	**172.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 90

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	138.4	137.6	139.3
Mar 2	138.1	137.5	138.6
Mar 3	138.5	138.0	139.2
Mar 4	138.6	137.9	139.4
Mar 5	138.8	138.1	139.6
Mar 6	138.0	137.8	138.3
Mar 7	138.5	138.1	138.9
Mar 8	138.4	137.9	138.9
Mar 9	138.5	138.0	139.0
Mar 10	138.5	137.7	139.5
Mar 11	138.8	138.1	139.8
Mar 12	138.8	137.2	140.0
Mar 13	138.7	137.8	139.7
Mar 14	139.0	137.8	140.5
Mar 15	139.2	138.9	139.6
Mar 16	139.3	138.8	140.3
Mar 17	138.2	137.2	138.9
Mar 18	139.1	138.3	140.0
Mar 19	139.6	138.7	140.5
Mar 20	139.0	138.3	139.9
Mar 21	138.6	137.6	139.3
Mar 22	139.1	138.6	139.9
Mar 23	139.3	138.5	140.1
Mar 24	139.1	138.6	139.6
Mar 25	138.9	138.2	139.8
Mar 26	138.7	138.1	139.0
Mar 27	139.0	138.3	139.7
Mar 28	139.4	138.8	140.0
Mar 29	139.5	139.0	140.2
Mar 30	139.7	139.3	140.1
Mar 31	139.3	137.3	140.1
Summary	**138.9**	**138.0**	**139.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 91

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	158.0	152.5	162.5
Mar 2	158.3	155.0	160.8
Mar 3	159.5	158.3	161.1
Mar 4	158.5	156.3	160.9
Mar 5	157.0	153.4	161.8
Mar 6	154.5	151.3	158.7
Mar 7	158.9	157.7	160.3
Mar 8	157.9	154.1	160.2
Mar 9	158.3	157.4	159.7
Mar 10	158.2	155.8	160.3
Mar 11	158.9	157.3	160.5
Mar 12	159.8	158.0	162.3
Mar 13	160.8	159.1	162.7
Mar 14	159.7	156.9	162.0
Mar 15	158.6	153.9	161.9
Mar 16	156.8	153.0	162.2
Mar 17	154.2	143.5	158.8
Mar 18	157.6	155.5	159.5
Mar 19	158.3	156.2	160.9
Mar 20	153.8	147.7	159.6
Mar 21	153.7	149.1	158.3
Mar 22	154.6	150.6	157.3
Mar 23	156.8	154.7	158.8
Mar 24	154.5	150.0	157.3
Mar 25	155.1	150.8	158.5
Mar 26	154.2	150.8	157.1
Mar 27	155.9	154.4	157.7
Mar 28	157.0	155.7	158.8
Mar 29	157.5	155.4	159.3
Mar 30	157.9	156.5	159.2
Mar 31	155.9	149.5	158.8
Summary	**157.1**	**153.7**	**160.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 92

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	107.7	72.5	141.4
Mar 2	104.0	81.6	122.2
Mar 3	119.4	104.8	135.1
Mar 4	112.2	92.0	139.9
Mar 5	90.9	70.4	130.0
Mar 6	81.3	69.9	113.2
Mar 7	110.2	96.4	125.6
Mar 8	110.1	83.8	130.1
Mar 9	117.1	110.0	130.9
Mar 10	115.5	104.5	128.9
Mar 11	119.9	107.1	132.1
Mar 12	121.3	112.4	132.3
Mar 13	125.9	111.2	139.7
Mar 14	117.4	97.3	139.1
Mar 15	110.0	89.4	130.7
Mar 16	98.2	81.2	128.1
Mar 17	85.7	63.7	106.7
Mar 18	110.4	95.9	129.1
Mar 19	120.6	107.7	145.5
Mar 20	87.8	65.0	130.0
Mar 21	91.2	68.0	114.1
Mar 22	94.8	80.0	105.1
Mar 23	112.0	101.6	134.3
Mar 24	91.8	76.9	109.6
Mar 25	103.0	81.7	129.4
Mar 26	102.0	84.8	120.4
Mar 27	114.8	101.2	134.5
Mar 28	124.4	112.1	142.6
Mar 29	128.0	82.1	145.2
Mar 30	130.2	116.0	144.6
Mar 31	112.7	87.7	142.0
Summary	**108.7**	**81.3**	**130.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 93

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	45.0	31.4	66.1
Mar 2	37.7	29.9	62.5
Mar 3	58.6	29.9	93.0
Mar 4	128.2	94.6	153.7
Mar 5	104.2	41.0	168.2
Mar 6	34.3	29.9	38.8
Mar 7	39.0	29.9	53.9
Mar 8	45.7	32.4	66.9
Mar 9	48.3	32.5	74.3
Mar 10	48.8	31.8	78.2
Mar 11	49.9	29.9	86.0
Mar 12	55.1	32.2	90.3
Mar 13	56.5	36.9	81.9
Mar 14	62.3	40.8	94.4
Mar 15	63.0	48.6	75.5
Mar 16	65.1	56.3	80.6
Mar 17	46.8	35.5	65.2
Mar 18	50.6	29.9	84.6
Mar 19	61.0	36.1	93.3
Mar 20	52.3	37.8	63.2
Mar 21	45.0	33.5	69.5
Mar 22	49.4	29.9	75.8
Mar 23	54.9	30.3	85.0
Mar 24	58.3	47.5	71.4
Mar 25	52.8	36.2	76.2
Mar 26	50.3	38.1	71.8
Mar 27	52.4	30.5	82.6
Mar 28	65.5	48.3	91.9
Mar 29	63.1	48.3	86.1
Mar 30	64.0	55.9	77.7
Mar 31	58.4	53.1	67.7
Summary	**57.0**	**34.3**	**128.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 94

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	51.7	41.2	67.8
Mar 2	44.5	33.8	63.1
Mar 3	58.3	34.5	81.1
Mar 4	82.9	68.6	102.6
Mar 5	64.5	50.0	73.7
Mar 6	72.5	43.4	103.5
Mar 7	94.0	75.7	118.6
Mar 8	71.3	59.4	82.7
Mar 9	65.4	57.1	78.8
Mar 10	92.2	54.3	129.8
Mar 11	114.4	79.2	145.4
Mar 12	98.3	86.2	109.3
Mar 13	112.6	78.7	148.4
Mar 14	123.5	98.6	157.2
Mar 15	103.0	93.8	112.4
Mar 16	89.9	82.4	96.4
Mar 17	106.3	70.1	146.0
Mar 18	125.6	99.5	156.4
Mar 19	130.6	107.2	161.3
Mar 20	124.4	101.2	156.5
Mar 21	130.0	115.8	160.0
Mar 22	114.9	107.8	122.1
Mar 23	110.7	104.9	116.4
Mar 24	133.5	96.1	162.6
Mar 25	142.4	132.0	164.3
Mar 26	142.9	127.9	164.3
Mar 27	148.5	129.8	167.4
Mar 28	151.9	139.2	167.8
Mar 29	140.1	131.5	146.1
Mar 30	135.4	134.2	136.9
Mar 31	140.9	122.3	168.2
Summary	**107.0**	**44.5**	**151.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 95

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	136.4	133.5	138.8
Mar 2	135.5	134.2	136.7
Mar 3	136.1	135.2	137.7
Mar 4	134.7	127.8	138.4
Mar 5	133.8	129.1	137.1
Mar 6	133.5	132.8	134.3
Mar 7	134.7	134.2	135.3
Mar 8	134.5	132.8	136.3
Mar 9	135.0	133.4	136.7
Mar 10	133.3	129.9	135.4
Mar 11	130.0	108.6	136.0
Mar 12	96.2	72.0	118.1
Mar 13	86.4	70.1	102.5
Mar 14	88.4	70.3	112.9
Mar 15	89.5	81.6	100.4
Mar 16	88.2	72.9	103.3
Mar 17	82.6	54.5	135.8
Mar 18	75.7	45.2	103.6
Mar 19	65.5	38.6	103.0
Mar 20	51.7	37.2	60.7
Mar 21	45.8	33.0	70.1
Mar 22	51.4	29.8	78.2
Mar 23	57.3	30.5	86.2
Mar 24	57.3	47.1	71.7
Mar 25	52.8	37.4	78.2
Mar 26	49.8	38.7	72.5
Mar 27	53.0	29.9	80.1
Mar 28	66.1	48.1	91.8
Mar 29	64.7	49.5	86.2
Mar 30	64.2	56.0	79.3
Mar 31	58.9	53.5	67.9
Summary	**91.1**	**45.8**	**136.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 96

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	121.7	116.5	125.4
Mar 2	122.5	118.3	125.0
Mar 3	124.5	121.6	127.3
Mar 4	124.1	119.8	127.7
Mar 5	121.3	115.3	126.7
Mar 6	120.1	116.7	124.5
Mar 7	124.7	122.4	126.2
Mar 8	124.2	120.3	127.3
Mar 9	125.7	123.5	127.5
Mar 10	124.7	120.8	127.0
Mar 11	126.2	123.8	129.1
Mar 12	126.5	120.3	129.3
Mar 13	127.2	124.2	130.9
Mar 14	127.3	121.3	133.1
Mar 15	127.1	121.8	130.3
Mar 16	125.7	120.1	131.6
Mar 17	123.0	117.6	128.7
Mar 18	128.5	124.7	131.1
Mar 19	129.7	127.0	133.3
Mar 20	125.5	119.0	131.1
Mar 21	125.2	118.6	129.2
Mar 22	127.1	124.8	130.8
Mar 23	129.9	126.8	133.1
Mar 24	128.4	125.0	131.7
Mar 25	128.9	123.6	133.2
Mar 26	128.7	124.8	131.5
Mar 27	130.7	126.9	133.4
Mar 28	132.9	130.7	135.7
Mar 29	133.2	124.4	136.0
Mar 30	134.7	133.0	136.3
Mar 31	132.4	127.4	135.8
Summary	**126.9**	**120.1**	**134.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 97

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	153.6	146.1	158.1
Mar 2	152.0	148.8	154.5
Mar 3	154.1	151.9	155.9
Mar 4	154.2	151.4	156.0
Mar 5	153.4	149.7	157.0
Mar 6	150.4	147.8	152.6
Mar 7	154.0	152.5	156.0
Mar 8	153.2	148.4	156.4
Mar 9	154.1	151.5	155.5
Mar 10	154.3	150.4	156.3
Mar 11	155.8	153.5	157.4
Mar 12	157.2	153.1	159.2
Mar 13	159.1	157.0	161.2
Mar 14	158.8	153.2	161.9
Mar 15	158.5	154.1	161.0
Mar 16	157.4	148.6	163.1
Mar 17	152.4	146.8	157.5
Mar 18	156.2	153.9	158.5
Mar 19	157.0	154.3	159.1
Mar 20	153.7	148.9	158.7
Mar 21	151.8	145.8	156.2
Mar 22	154.5	151.6	157.1
Mar 23	155.7	152.9	157.6
Mar 24	154.4	149.6	156.9
Mar 25	154.1	149.1	157.5
Mar 26	152.2	148.8	155.2
Mar 27	154.4	152.3	156.3
Mar 28	156.3	154.6	157.4
Mar 29	156.7	148.5	158.8
Mar 30	157.8	156.4	158.9
Mar 31	155.8	149.5	158.9
Summary	**154.9**	**150.4**	**159.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 98

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	44.3	31.9	68.0
Mar 2	38.8	29.9	60.7
Mar 3	44.5	29.9	73.2
Mar 4	55.1	29.9	81.1
Mar 5	64.6	51.2	77.7
Mar 6	48.5	33.2	55.7
Mar 7	49.5	29.9	64.0
Mar 8	53.4	34.0	63.1
Mar 9	48.4	33.6	75.5
Mar 10	52.3	32.5	80.0
Mar 11	54.8	30.1	88.0
Mar 12	57.0	34.2	85.6
Mar 13	57.6	38.0	80.4
Mar 14	64.4	42.0	95.3
Mar 15	65.0	51.6	77.1
Mar 16	64.1	54.8	78.3
Mar 17	47.5	36.2	60.4
Mar 18	51.8	29.9	80.8
Mar 19	61.8	38.2	89.3
Mar 20	53.0	38.4	63.9
Mar 21	48.3	33.9	65.6
Mar 22	49.1	30.3	73.9
Mar 23	54.9	31.7	84.2
Mar 24	58.3	50.1	68.5
Mar 25	55.4	37.6	77.1
Mar 26	53.6	40.3	74.0
Mar 27	56.8	34.8	80.2
Mar 28	65.5	47.7	88.1
Mar 29	63.1	49.3	83.7
Mar 30	63.2	55.7	76.7
Mar 31	61.2	54.6	74.0
Summary	**55.0**	**38.8**	**65.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 99

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	143.1	141.2	144.5
Mar 2	142.3	141.2	143.2
Mar 3	142.8	141.9	144.0
Mar 4	142.8	141.8	144.6
Mar 5	143.0	141.7	144.5
Mar 6	141.5	141.1	141.8
Mar 7	142.1	141.5	142.7
Mar 8	141.9	141.1	143.1
Mar 9	142.0	141.2	142.9
Mar 10	141.6	140.6	143.1
Mar 11	142.2	141.1	143.8
Mar 12	141.5	138.6	143.6
Mar 13	140.8	139.5	142.2
Mar 14	141.6	138.0	145.5
Mar 15	141.9	140.8	143.2
Mar 16	142.3	140.7	144.1
Mar 17	140.2	136.0	142.9
Mar 18	142.3	141.1	144.0
Mar 19	142.6	141.0	144.3
Mar 20	141.1	139.7	142.4
Mar 21	140.2	138.8	141.7
Mar 22	141.0	140.2	142.0
Mar 23	141.2	139.9	142.8
Mar 24	140.7	139.8	141.6
Mar 25	140.8	139.9	143.0
Mar 26	140.4	139.7	141.4
Mar 27	140.6	139.6	141.8
Mar 28	141.1	140.1	142.4
Mar 29	140.9	140.2	142.0
Mar 30	140.9	140.2	141.7
Mar 31	140.2	135.2	142.3
Summary	**141.5**	**140.2**	**143.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 100

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Mar 1	100.6	91.1	108.7
Mar 2	131.9	128.3	134.7
Mar 3	100.0	93.5	106.2
Mar 4	133.6	129.4	137.6
Mar 5	101.9	91.2	108.1
Mar 6	129.9	126.6	133.0
Mar 7	97.5	93.7	101.6
Mar 8	130.1	128.0	131.9
Mar 9	100.5	95.1	107.1
Mar 10	131.7	129.0	136.1
Mar 11	101.9	94.8	110.0
Mar 12	125.8	116.4	133.6
Mar 13	102.9	96.1	111.1
Mar 14	130.4	124.6	137.9
Mar 15	105.3	102.0	108.8
Mar 16	129.6	126.0	132.9
Mar 17	91.8	87.1	97.9
Mar 18	132.1	128.9	137.5
Mar 19	106.5	96.8	116.4
Mar 20	132.3	128.6	135.9
Mar 21	92.8	84.5	102.3
Mar 22	131.0	129.1	132.7
Mar 23	103.2	93.9	111.7
Mar 24	131.5	128.4	135.3
Mar 25	98.8	92.1	104.1
Mar 26	130.1	127.9	132.2
Mar 27	98.4	88.1	105.9
Mar 28	133.7	130.4	136.8
Mar 29	105.8	97.3	112.9
Mar 30	133.4	132.2	134.7
Mar 31	102.3	97.1	107.0
Summary	**100.5**	**91.2**	**107.1**

Appendix D

Solid Waste Permit 588 Daily Borehole Temperature Averages

Appendix D Table of Contents

Section Page

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 1

	Depth from Surface					
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft
1-Mar	165.5	218.9	219.5	228.0	237.9	263.3
2-Mar	165.0	218.7	219.3	227.4	237.8	263.0
3-Mar	165.3	218.9	219.5	228.0	238.2	263.4
4-Mar	165.7	219.2	219.7	228.4	238.8	263.6
5-Mar	165.8	219.2	219.7	228.6	238.9	263.7
6-Mar	164.8	218.3	218.9	227.9	238.5	262.9
7-Mar	164.9	218.6	219.1	228.2	238.6	263.1
8-Mar	165.2	218.8	219.3	228.5	238.7	263.1
9-Mar	165.2	218.9	219.4	228.8	238.9	263.3
10-Mar	165.2	218.8	219.4	228.6	239.0	263.2
11-Mar	165.5	219.0	219.6	228.9	239.4	263.5
12-Mar	165.7	219.1	219.7	229.0	239.7	263.5
13-Mar	165.8	219.1	219.6	229.1	239.9	263.6
14-Mar	165.8	219.2	219.7	229.3	240.3	263.7
15-Mar	165.7	219.2	219.8	229.4	240.6	263.7
16-Mar	166.1	219.4	219.9	229.6	240.8	263.8
17-Mar	165.1	218.6	219.1	228.9	240.3	263.1
18-Mar	165.4	218.9	219.6	229.3	240.8	263.5
19-Mar	165.8	219.1	219.7	229.9	241.1	263.6
20-Mar	165.5	218.8	219.3	229.3	240.9	263.3
21-Mar	165.5	218.6	219.1	229.2	240.9	263.1
22-Mar	165.9	218.8	219.3	229.4	241.2	263.3
23-Mar	165.9	219.0	219.5	229.7	241.6	263.6
24-Mar	165.7	218.9	219.5	229.7	241.5	263.5
25-Mar	165.4	218.9	219.4	229.6	241.5	263.4
26-Mar	165.2	218.8	219.3	229.5	241.5	263.3
27-Mar	165.4	219.0	219.5	229.8	241.8	263.5
28-Mar	165.8	219.2	219.8	230.1	242.0	263.7
29-Mar	166.1	219.3	219.8	230.2	241.9	263.8
30-Mar	166.2	219.3	219.9	230.3	241.9	263.8
31-Mar	166.1	219.1	219.7	230.2	241.8	263.6
Average	**165.6**	**219.0**	**219.5**	**229.1**	**240.2**	**263.4**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 3

	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Mar	165.7	234.1	233.8	*	*	*	*	*
2-Mar	165.6	234.0	233.8	*	*	*	*	*
3-Mar	165.4	234.1	233.9	*	*	*	*	*
4-Mar	165.4	234.1	233.8	*	*	*	*	*
5-Mar	165.4	234.0	233.7	*	*	*	*	*
6-Mar	165.0	233.5	233.3	*	*	*	*	*
7-Mar	164.9	233.5	233.3	*	*	*	*	*
8-Mar	164.9	233.5	233.3	*	*	*	*	*
9-Mar	165.0	233.7	233.5	*	*	*	*	*
10-Mar	164.8	233.6	233.4	*	*	*	*	*
11-Mar	165.0	233.9	233.6	*	*	*	*	*
12-Mar	165.0	234.0	233.8	*	*	*	*	*
13-Mar	165.0	233.7	233.6	*	*	*	*	*
14-Mar	165.1	234.0	233.9	*	*	*	*	*
15-Mar	165.1	233.9	233.7	*	*	*	*	*
16-Mar	165.5	233.9	233.2	*	*	*	*	*
17-Mar	165.0	233.0	232.6	*	*	*	*	*
18-Mar	165.4	233.3	233.2	*	*	*	*	*
19-Mar	165.4	233.5	233.3	*	*	*	*	*
20-Mar	165.1	233.2	233.0	*	*	*	*	*
21-Mar	165.2	233.3	233.0	*	*	*	*	*
22-Mar	165.2	233.3	233.1	*	*	*	*	*
23-Mar	165.2	233.4	233.2	*	*	*	*	*
24-Mar	165.2	233.3	233.0	*	*	*	*	*
25-Mar	165.1	233.3	233.0	*	*	*	*	*
26-Mar	165.2	233.3	233.1	*	*	*	*	*
27-Mar	165.2	233.4	233.3	*	*	*	*	*
28-Mar	165.4	233.5	233.3	*	*	*	*	*
29-Mar	165.4	233.4	233.2	*	*	*	*	*
30-Mar	165.4	233.4	233.1	*	*	*	*	*
31-Mar	165.5	233.2	232.9	*	*	*	*	*
Average	**165.2**	**233.6**	**233.3**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

* Indicates sensor reading issues

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 5

	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Mar	144.1	215.2	215.5	229.0	236.4	239.4	221.1	202.9
2-Mar	142.8	215.1	215.4	228.8	236.4	239.4	220.6	202.8
3-Mar	142.9	215.1	215.4	228.9	236.6	239.5	220.4	203.0
4-Mar	143.1	215.3	215.5	229.0	237.0	239.8	220.3	203.3
5-Mar	143.8	215.4	215.7	229.0	237.1	239.7	220.0	203.2
6-Mar	143.3	214.9	215.2	228.6	236.7	239.2	219.5	202.7
7-Mar	143.3	214.9	215.2	228.8	236.9	239.4	219.3	202.8
8-Mar	142.6	215.0	215.3	228.7	237.0	239.4	219.1	202.9
9-Mar	141.6	215.0	215.3	229.0	237.2	239.6	219.1	203.1
10-Mar	140.9	215.1	215.3	228.7	237.2	239.6	218.8	203.1
11-Mar	141.2	215.2	215.4	229.0	237.3	239.8	218.7	203.3
12-Mar	141.2	215.0	215.3	229.0	237.5	239.9	218.6	203.4
13-Mar	141.0	215.2	215.5	228.9	237.5	239.9	218.5	203.3
14-Mar	141.2	215.7	216.0	229.1	237.7	240.1	218.5	203.6
15-Mar	141.2	215.5	215.8	229.1	237.7	240.1	218.3	203.6
16-Mar	141.3	215.4	215.6	229.0	237.8	240.1	218.2	203.7
17-Mar	141.3	214.8	215.0	228.5	237.2	239.6	217.5	203.2
18-Mar	141.9	215.0	215.2	228.6	237.4	239.8	217.6	203.3
19-Mar	141.7	215.1	215.4	228.9	237.5	240.0	217.7	203.6
20-Mar	141.5	214.8	215.0	228.5	237.3	239.7	217.3	203.2
21-Mar	141.8	214.9	215.1	228.6	237.3	239.7	217.3	203.4
22-Mar	142.3	215.1	215.3	228.5	237.3	239.8	217.3	203.5
23-Mar	142.5	215.3	215.6	228.5	237.5	240.0	217.4	203.6
24-Mar	142.4	215.4	215.7	228.5	237.5	239.9	217.3	203.6
25-Mar	142.2	215.3	215.7	228.4	237.3	239.7	217.0	203.5
26-Mar	142.3	215.3	215.6	228.4	237.3	239.7	217.0	203.5
27-Mar	142.5	215.5	215.9	228.5	237.4	239.9	217.0	203.7
28-Mar	142.7	215.7	216.0	228.7	237.6	240.1	217.2	203.9
29-Mar	142.7	215.7	216.0	228.7	237.6	240.1	217.1	203.9
30-Mar	142.8	215.7	216.0	228.7	237.6	240.0	217.1	203.9
31-Mar	142.5	215.5	215.9	228.5	237.4	239.8	216.8	203.7
Average	**142.2**	**215.2**	**215.5**	**228.7**	**237.3**	**239.8**	**218.3**	**203.4**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 6

	Depth from Surface				
Date	25 ft	50 ft	75 ft	100 ft	125 ft
1-Mar	206.1	209.0	209.2	209.2	209.1
2-Mar	203.5	209.5	209.8	209.6	209.6
3-Mar	207.0	209.1	209.3	209.2	209.3
4-Mar	206.8	207.2	207.5	207.3	207.4
5-Mar	205.3	207.1	207.4	207.3	207.3
6-Mar	178.3	207.9	213.0	211.1	209.9
7-Mar	165.3	209.8	217.7	217.0	213.5
8-Mar	200.0	217.1	217.4	217.3	217.4
9-Mar	206.7	216.2	216.3	216.2	216.4
10-Mar	206.4	211.4	211.5	211.3	211.5
11-Mar	206.6	211.8	212.0	212.0	211.9
12-Mar	206.7	211.0	211.2	211.0	211.1
13-Mar	206.6	211.2	211.4	211.3	211.3
14-Mar	206.9	211.2	211.3	211.3	211.3
15-Mar	206.6	210.8	211.0	210.9	210.9
16-Mar	206.5	210.1	210.1	210.3	210.1
17-Mar	206.2	209.8	209.9	210.0	209.8
18-Mar	207.1	210.3	210.3	210.3	210.3
19-Mar	206.8	208.4	208.6	208.4	208.6
20-Mar	206.3	209.5	209.6	209.6	209.5
21-Mar	206.9	209.5	209.8	209.7	209.6
22-Mar	206.6	209.4	209.6	209.6	209.6
23-Mar	206.9	210.2	210.2	210.2	210.3
24-Mar	206.7	209.0	209.0	209.0	209.0
25-Mar	206.7	208.9	209.0	209.1	209.0
26-Mar	207.0	209.9	210.0	210.0	210.0
27-Mar	207.3	210.4	210.5	210.5	210.5
28-Mar	207.5	210.8	211.0	211.0	210.9
29-Mar	207.3	210.7	210.7	210.8	210.7
30-Mar	207.0	210.7	210.7	210.8	210.7
31-Mar	206.6	208.8	208.8	208.8	208.8
Average	**204.1**	**210.2**	**210.8**	**210.7**	**210.5**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 7

	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Mar	142.9	193.6	209.5	193.5	194.8	197.1	198.7	206.7
2-Mar	143.0	192.1	209.9	193.3	197.1	197.5	196.3	199.8
3-Mar	143.2	186.5	210.1	193.3	194.4	196.9	199.1	209.2
4-Mar	143.5	185.2	210.6	193.5	192.9	196.6	201.3	208.3
5-Mar	143.6	193.2	208.8	193.6	193.8	196.9	200.7	207.0
6-Mar	143.2	196.8	208.2	193.0	197.9	197.5	194.6	200.0
7-Mar	143.3	188.8	209.8	193.5	193.2	196.3	200.2	213.5
8-Mar	143.6	190.9	209.9	193.6	194.1	196.7	199.0	215.7
9-Mar	143.8	187.0	210.2	193.5	193.7	196.7	199.3	206.9
10-Mar	143.9	187.4	209.9	193.3	192.6	196.0	200.0	212.1
11-Mar	144.1	189.0	210.1	193.6	192.9	196.3	200.6	221.2
12-Mar	144.4	189.4	209.9	193.8	192.8	196.5	201.3	218.2
13-Mar	144.5	187.8	210.4	193.7	192.7	196.6	201.2	219.0
14-Mar	144.8	191.7	210.8	194.3	193.2	196.9	201.8	215.4
15-Mar	144.9	193.1	210.9	194.3	193.7	196.9	200.4	212.4
16-Mar	145.1	193.2	210.8	194.3	193.7	196.8	200.3	214.4
17-Mar	144.6	188.5	210.6	193.6	192.3	196.2	201.6	217.4
18-Mar	145.0	187.0	210.9	194.1	192.7	196.6	201.3	213.2
19-Mar	145.1	191.5	211.1	194.0	193.0	196.9	200.9	206.2
20-Mar	145.0	191.6	210.4	193.4	192.6	196.4	200.4	209.6
21-Mar	145.0	187.4	210.7	193.6	192.4	196.3	201.0	207.1
22-Mar	145.2	185.1	211.0	193.7	191.8	196.0	203.4	210.8
23-Mar	145.4	185.4	211.2	193.9	191.9	196.1	204.6	209.2
24-Mar	145.5	188.0	211.1	194.1	192.2	196.3	204.1	207.9
25-Mar	145.4	183.2	210.8	194.0	191.7	195.8	204.1	208.4
26-Mar	145.5	182.6	210.7	194.0	192.1	196.0	204.1	207.2
27-Mar	145.6	180.2	211.2	194.0	191.6	196.3	205.6	209.4
28-Mar	145.9	179.8	211.4	194.2	191.7	196.5	206.4	210.0
29-Mar	145.9	180.0	211.4	194.4	191.4	196.2	206.6	209.7
30-Mar	146.0	182.9	211.3	194.3	191.7	196.3	205.8	210.8
31-Mar	145.9	186.6	210.9	193.9	192.0	196.2	204.1	211.7
Average	**144.6**	**187.9**	**210.5**	**193.8**	**193.0**	**196.5**	**201.6**	**210.6**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 8

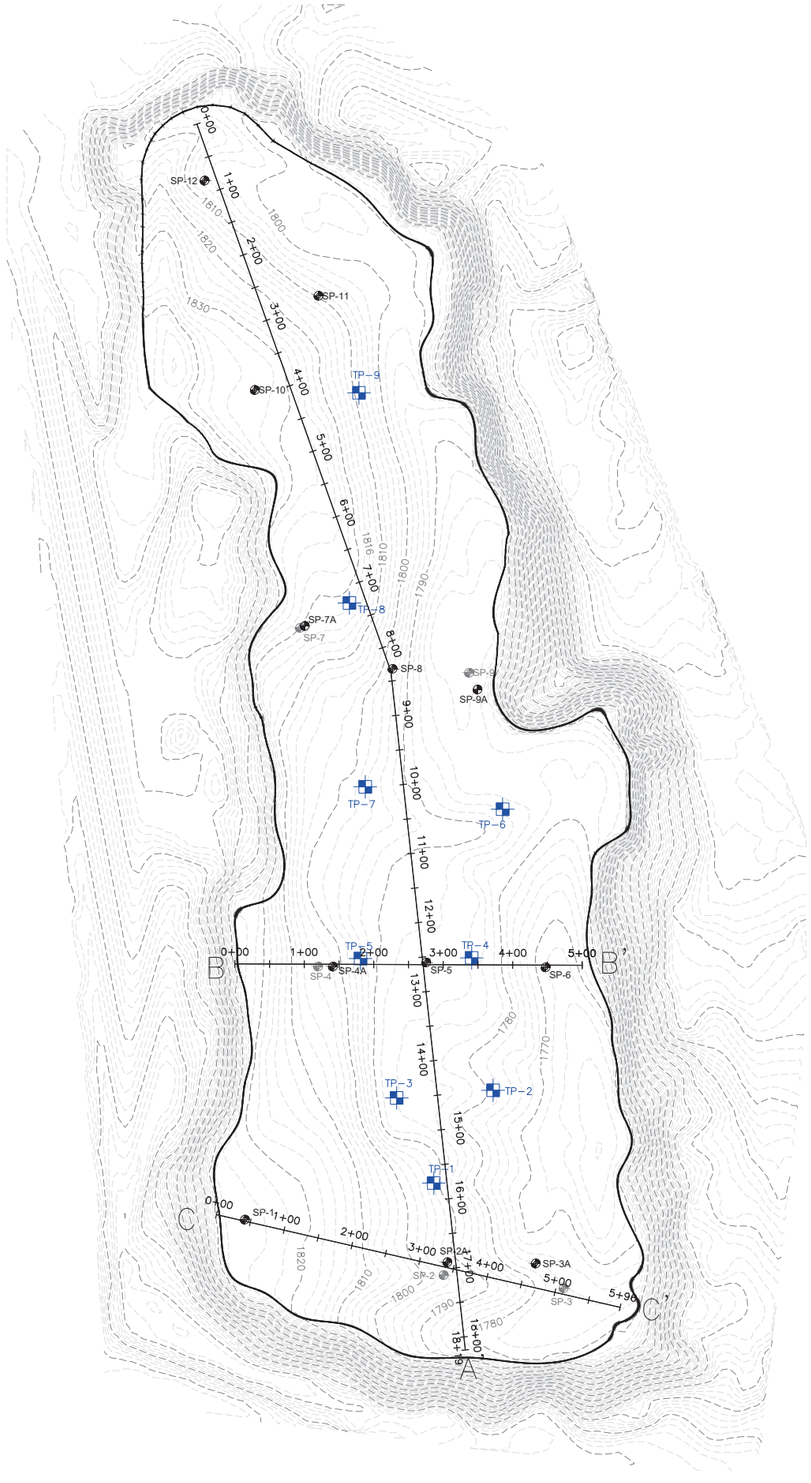
	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Mar	188.9	193.0	193.3	195.4	198.0	198.8	190.4	176.1
2-Mar	188.5	193.0	193.3	195.7	198.1	198.8	190.4	176.2
3-Mar	188.6	193.1	193.4	195.7	198.3	198.9	190.4	176.2
4-Mar	188.9	193.2	193.6	195.9	198.4	199.1	190.6	176.4
5-Mar	189.3	193.1	193.5	195.6	198.1	199.1	190.7	176.5
6-Mar	188.5	192.7	193.0	195.3	197.7	198.5	190.3	176.0
7-Mar	188.6	192.8	193.2	195.5	197.9	198.6	190.3	176.1
8-Mar	188.7	192.9	193.3	195.5	198.1	198.8	190.4	176.2
9-Mar	188.8	193.1	193.5	195.7	198.2	198.9	190.5	176.2
10-Mar	188.9	193.1	193.4	195.6	198.3	199.0	190.5	176.2
11-Mar	189.0	193.1	193.5	195.7	198.3	199.0	190.5	176.3
12-Mar	189.1	193.2	193.6	195.8	198.4	199.1	190.6	176.4
13-Mar	189.3	193.3	193.6	195.9	198.4	199.1	190.6	176.4
14-Mar	189.3	193.4	193.7	196.0	198.6	199.3	190.7	176.6
15-Mar	189.4	193.4	193.7	196.0	198.6	199.4	190.8	176.7
16-Mar	189.5	193.4	193.7	195.9	198.5	199.4	190.8	176.7
17-Mar	188.7	193.0	193.4	195.7	198.2	198.9	190.4	176.3
18-Mar	188.8	193.2	193.5	195.9	198.4	199.0	190.4	176.3
19-Mar	189.2	193.3	193.7	195.9	198.5	199.3	190.6	176.4
20-Mar	189.2	193.2	193.5	195.7	198.2	199.1	190.6	176.3
21-Mar	188.7	193.1	193.5	195.8	198.2	199.0	190.5	176.3
22-Mar	189.0	193.2	193.5	195.8	198.2	199.0	190.5	176.4
23-Mar	189.1	193.3	193.7	196.0	198.3	199.1	190.6	176.4
24-Mar	189.2	193.4	193.7	196.0	198.3	199.2	190.8	176.6
25-Mar	189.0	193.3	193.6	195.8	198.2	199.0	190.6	176.4
26-Mar	188.8	193.2	193.6	195.9	198.3	198.9	190.4	176.3
27-Mar	188.9	193.4	193.8	196.2	198.5	199.1	190.6	176.4
28-Mar	189.2	193.7	194.0	196.4	198.8	199.4	190.8	176.6
29-Mar	189.3	193.7	194.0	196.3	198.7	199.3	190.8	176.5
30-Mar	189.4	193.6	193.9	196.2	198.7	199.4	190.7	176.5
31-Mar	189.2	193.3	193.6	195.9	198.3	199.2	190.5	176.2
Average	**189.0**	**193.2**	**193.5**	**195.8**	**198.3**	**199.1**	**190.6**	**176.4**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 9

	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Mar	107.8	144.3	143.1	147.8	144.8	131.9	114.6	105.2
2-Mar	107.9	144.3	143.2	147.6	144.5	131.6	114.4	104.8
3-Mar	108.1	144.7	143.8	147.9	144.7	131.8	114.8	105.1
4-Mar	108.1	144.9	144.0	148.3	145.0	132.2	115.1	105.4
5-Mar	108.4	145.3	144.4	148.4	145.1	132.4	115.3	105.5
6-Mar	107.7	144.6	143.6	147.5	144.1	131.5	114.4	104.6
7-Mar	107.6	145.1	144.1	147.8	144.4	131.7	114.7	104.9
8-Mar	108.0	145.4	144.2	148.0	144.5	131.8	115.0	105.1
9-Mar	108.4	145.8	144.7	148.2	144.7	132.1	115.2	105.4
10-Mar	108.6	145.9	144.8	148.2	144.7	132.4	115.2	105.3
11-Mar	109.2	146.4	145.4	148.5	144.8	132.5	115.4	105.4
12-Mar	109.2	146.6	145.5	148.6	144.9	132.4	115.6	105.4
13-Mar	109.3	146.8	145.8	148.6	144.9	132.3	115.6	105.3
14-Mar	109.4	147.2	146.1	148.9	145.2	132.5	115.8	105.5
15-Mar	109.3	147.0	145.9	148.9	145.1	132.4	115.8	105.4
16-Mar	109.5	147.3	146.2	149.0	145.1	132.4	115.9	105.4
17-Mar	108.9	146.7	145.8	148.3	144.4	131.7	115.3	104.8
18-Mar	109.0	147.2	146.3	148.6	144.7	131.8	115.5	105.1
19-Mar	109.3	147.4	146.5	149.0	145.1	132.2	116.0	105.4
20-Mar	108.9	147.0	146.1	148.5	144.5	131.7	115.5	105.1
21-Mar	108.9	147.1	146.2	148.5	144.5	131.6	115.4	104.9
22-Mar	109.0	147.1	146.2	148.6	144.6	131.6	115.6	105.1
23-Mar	109.0	147.4	146.4	148.9	144.9	131.8	115.9	105.3
24-Mar	108.2	147.1	146.1	148.8	144.8	131.7	115.8	105.2
25-Mar	107.6	146.8	145.7	148.6	144.7	131.6	115.6	105.0
26-Mar	107.7	146.8	145.7	148.5	144.5	131.6	115.5	104.9
27-Mar	107.8	147.0	146.1	148.7	144.7	132.3	115.7	105.2
28-Mar	108.0	147.5	146.4	149.1	145.2	132.7	116.2	105.6
29-Mar	108.5	147.5	146.5	149.1	145.1	132.5	116.1	105.5
30-Mar	107.9	147.4	146.4	149.1	145.1	132.4	116.2	105.5
31-Mar	106.9	147.1	146.1	148.8	144.9	132.1	115.9	105.2
Average	**108.5**	**146.4**	**145.4**	**148.5**	**144.8**	**132.0**	**115.5**	**105.2**

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:

1. GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON MARCH 13, 2024 BY SCS ENGINEERS.
2. 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.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD–83 (2011).
4. THE VERTICAL DATUM IS BASED UPON NAVD–88.

100 50 0 100 200
SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: MARCH 2024 LANDFILL TOPOGRAPHY

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TURNPIKE, MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7435

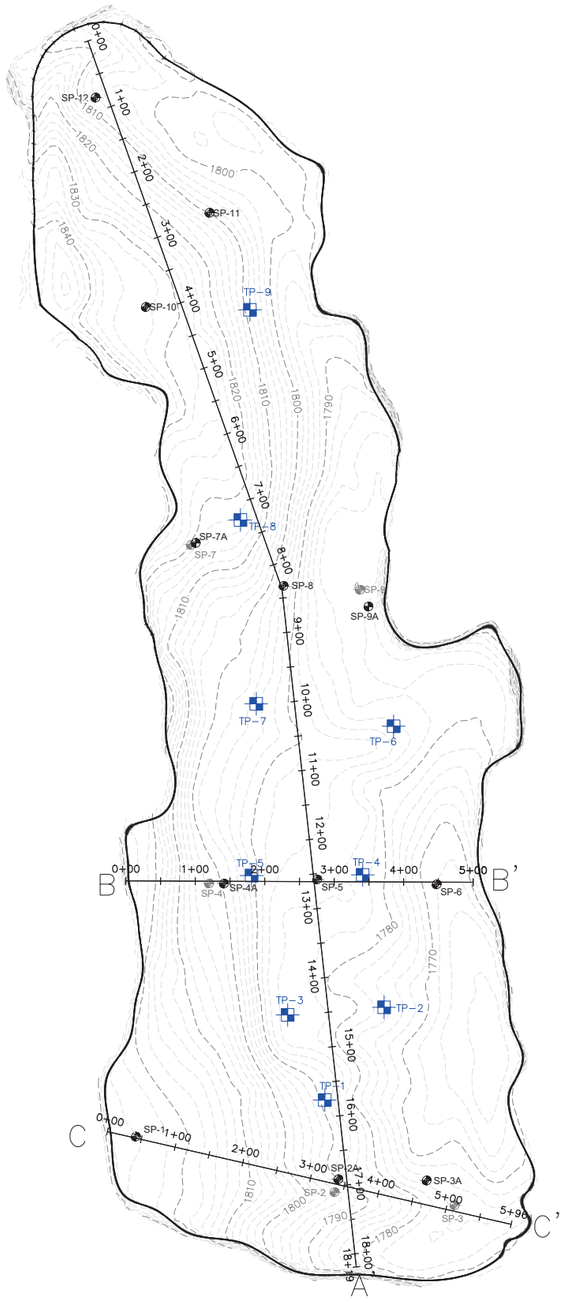
PROJ. NO. 02P02208.05
DSK. BY:
DWN. BY: VMM
CHK. BY: CJW
Q/A RVW BY:
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 4/2/2025

SCALE:

DRAWING NO. 1



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:

1. GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON DECEMBER 13, 2024 BY SCS ENGINEERS.
2. 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.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD–83 (2011).
4. THE VERTICAL DATUM IS BASED UPON NAVD–88.

100 50 0 100 200
SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: DECEMBER 2024 LANDFILL TOPOGRAPHY

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TURNPIKE, MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

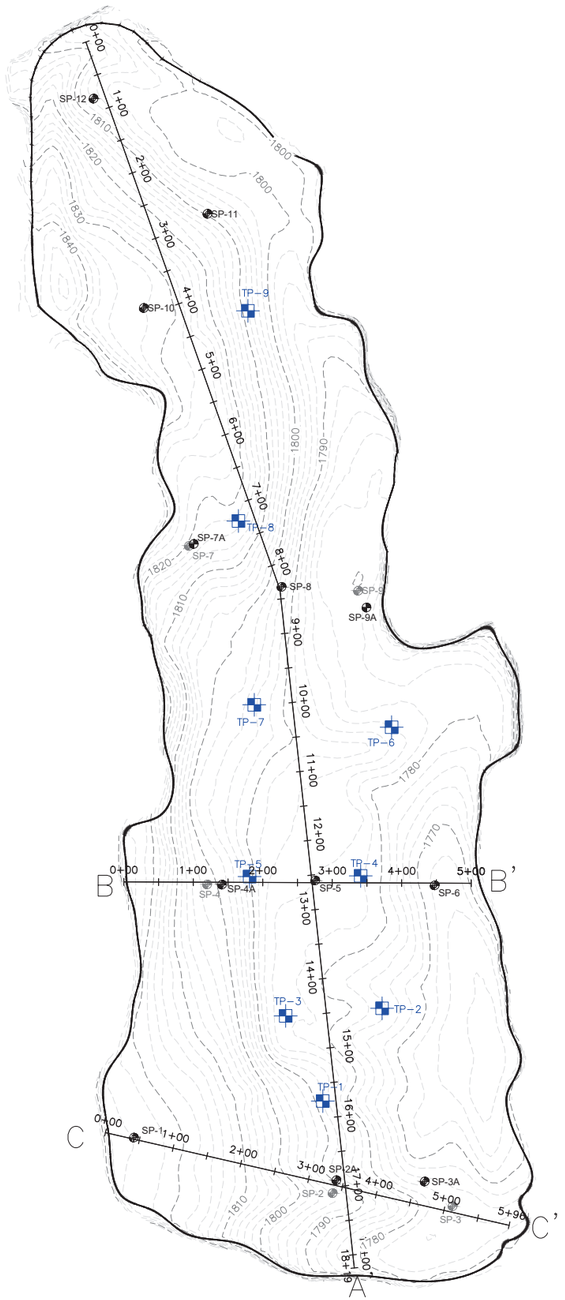
PROJ. NO. 27282208.05
DSN. BY: SRB
DWN. BY: VMM
CHK. BY: CJW
Q/A RVW BY:
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 4/2/2025

SCALE:

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:

1. GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON FEBRUARY 18, 2025 BY SCS ENGINEERS.
2. 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.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD–83 (2011).
4. THE VERTICAL DATUM IS BASED UPON NAVD–88.

100 50 0 100 200
SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: FEBRUARY 2025 LANDFILL TOPOGRAPHY

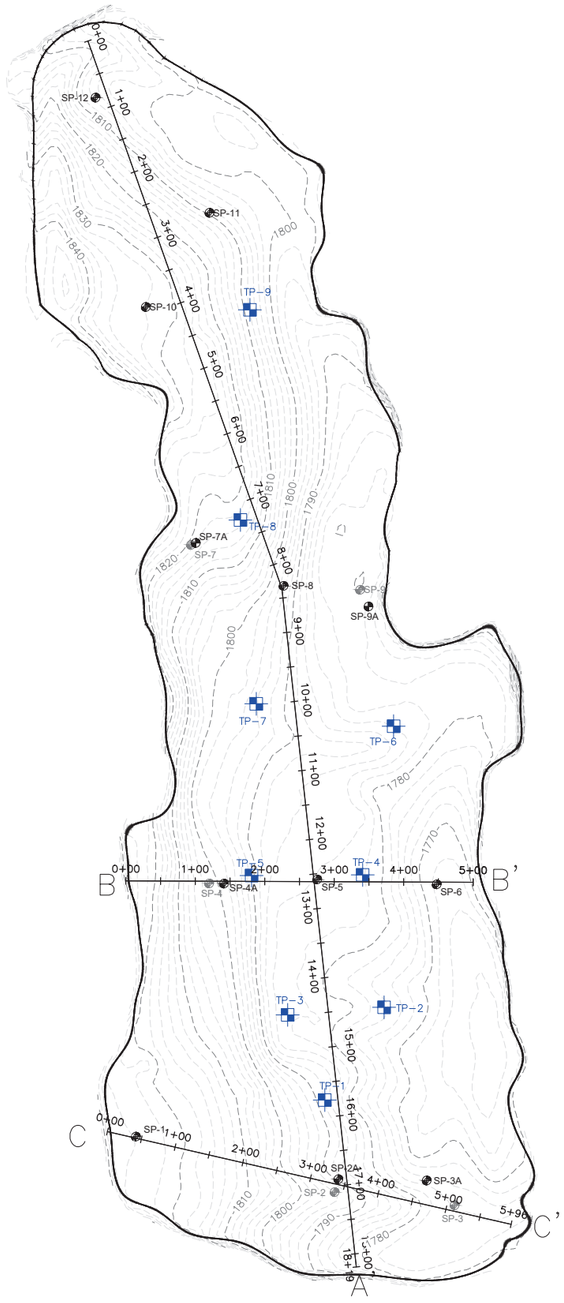
PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
9502 MAYLAND DRIVE, RICHMOND, VIRGINIA 23233
PH: (804) 378-7440 FAX: (804) 378-7435

PROJ. NO. 27218206.05
DSN. BY: VHM
DWN. BY: VHM
CHK. BY: CJW
Q/A RVW. BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP
DATE: 4/2/2025
SCALE:
DRAWING NO. 3



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:

1. GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON MARCH 11, 2025 BY SCS ENGINEERS.
2. 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.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD–83 (2011).
4. THE VERTICAL DATUM IS BASED UPON NAVD–88.

100 50 0 100 200
SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: MARCH 2025 LANDFILL TOPOGRAPHY

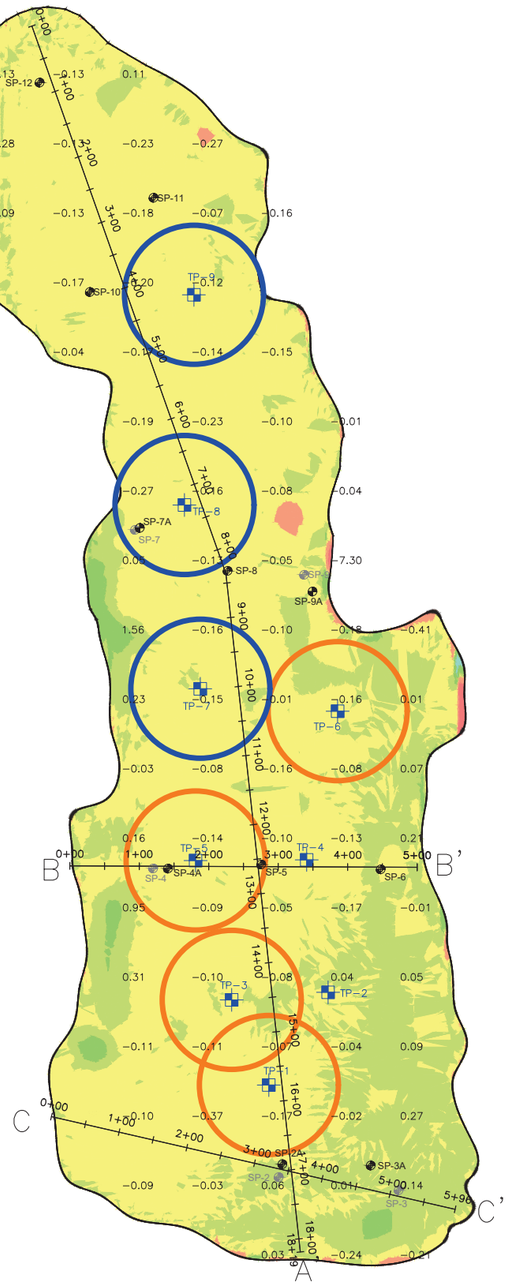
PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK, MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX. (804) 378-7433

PROJ. NO. 02218208.05
DSN. BY:
DRN. BY: VMM
CHK. BY: CJW
QA/A PVW BY:
APP. BY: CJW

CADD FILE: SURF COMP
DATE: 4/2/2025
SCALE:
DRAWING NO. 4



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 – February 18, 2025
Comparison Surface TOPO – March 11, 2025

Cut Volume	3,206	Cu. Yd.
Fill Volume	1,413	Cu. Yd.
Net Cut	1,793	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:

1. THE ELEVATION CHANGES ARE CALCULATED BETWEEN THE AERIAL TOPOGRAPHY DATA CAPTURED ON FEBRUARY 18, 2025 AND MARCH 11, 2025 BY SCS ENGINEERS. POSITIVE VALUES (+) INDICATE AREAS OF FILL AND NEGATIVE VALUES (−) INDICATE AREAS OF CUT (SETTLEMENT). VALUES ARE ROUNDED TO THE NEAREST FOOT
2. 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.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD−83 (2011)
4. THE VERTICAL DATUM IS BASED UPON NAVD−88.

100 50 0 100 200
SCALE: 1"=100'

NO. | REVISION | DATE

SHEET TITLE: MARCH VOLUME CHANGE FEBRUARY 2025 TO MARCH 2025

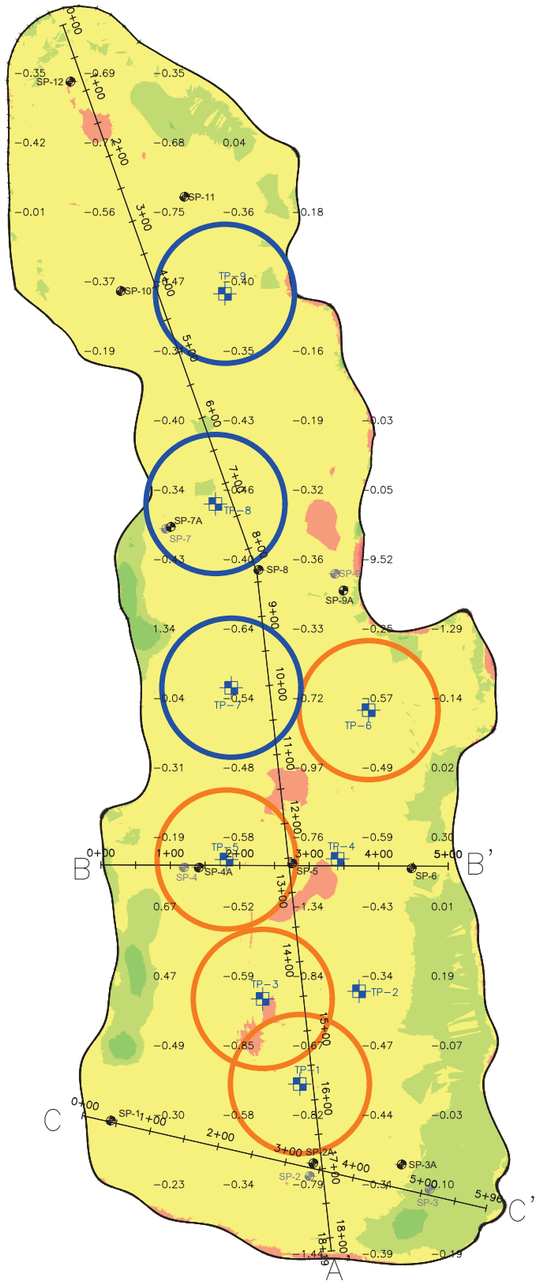
PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
1620 MIDLOTHIAN TPKE, MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX. (804) 378-7433

PROJ. NO. 02218208.05
DSN. BY:
DRN. BY: VMM
CHK. BY: CJW
Q/A REVIEW BY:
APP. BY: CJW

CADD FILE: SURF COMP
DATE: 4/2/2025
SCALE:
DRAWING NO. 5
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 – December 13, 2024	
Comparison Surface	TOPO – March 11, 2025	
Cut Volume	10,903	Cu. Yd.
Fill Volume	1,143	Cu. Yd.
Net Cut	9,760	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:

1. THE ELEVATION CHANGES ARE CALCULATED BETWEEN THE AERIAL TOPOGRAPHY DATA CAPTURED ON DECEMBER 13, 2024 AND MARCH 11, 2025 BY SCS ENGINEERS. POSITIVE VALUES (+) INDICATE AREAS OF FILL AND NEGATIVE VALUES (–) INDICATE AREAS OF CUT (SETTLEMENT). VALUES ARE ROUNDED TO THE NEAREST FOOT.
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100 50 0 100 200
SCALE: 1"=100'

NO. | REVISION | DATE

SHEET TITLE: MARCH VOLUME CHANGE DECEMBER 2024 TO MARCH 2025

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK, MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX. (804) 378-7433

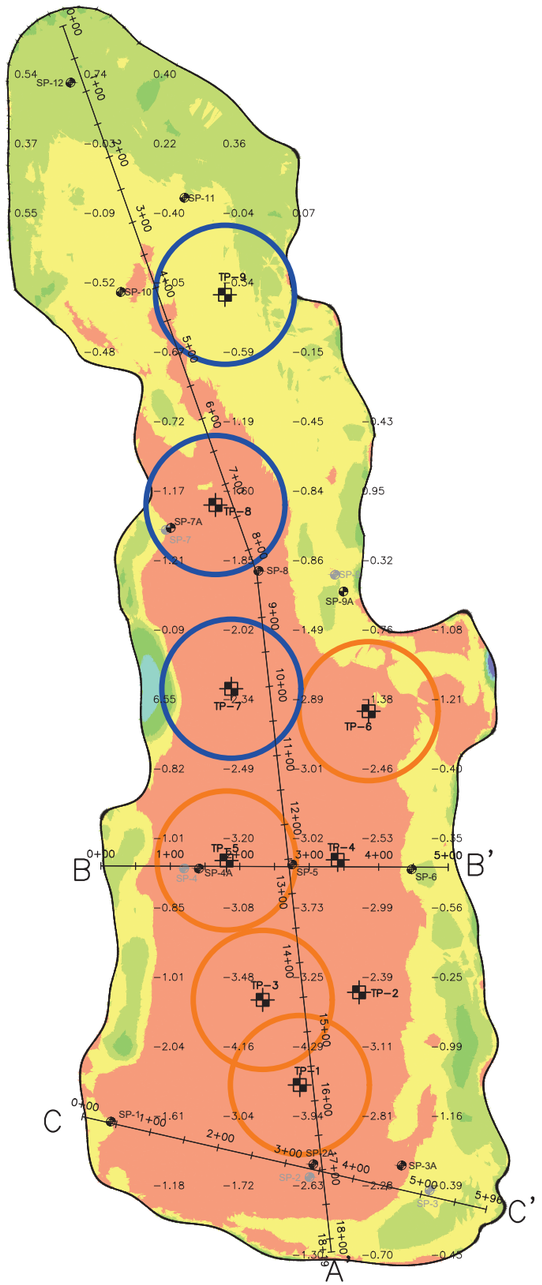
PROJ. NO. 208.05
DSN. BY:
DRN. BY: VMM
CHK. BY: CJW
Q/A RVW. BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 4/2/2025

SCALE:

DRAWING NO. 6



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 – March 13, 2024
Comparison Surface TOPO – March 11, 2025

Cut Volume	38,571	Cu. Yd.
Fill Volume	3,256	Cu. Yd.
Net Cut	35,315	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:

1. THE ELEVATION CHANGES ARE CALCULATED BETWEEN THE AERIAL TOPOGRAPHY DATA CAPTURED ON MARCH 13, 2024 AND MARCH 11, 2025 BY SCS ENGINEERS. POSITIVE VALUES (+) INDICATE AREAS OF FILL AND NEGATIVE VALUES (−) INDICATE AREAS OF CUT (SETTLEMENT). VALUES ARE ROUNDED TO THE NEAREST FOOT
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3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD−83 (2011)
4. THE VERTICAL DATUM(S) IS BASED UPON NAVD−88.

100 50 0 100 200
SCALE: 1"=100'

NO. | REVISION | DATE

SHEET TITLE: MARCH VOLUME CHANGE MARCH 2024 TO MARCH 2025

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK, MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX (804) 378-7433

PROJ. NO. 02226208.05
DSN. BY: VMM
DRN. BY: VMM
CHK. BY: CJW
QA/A PROV. BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP
DATE: 4/2/2025
SCALE:
DRAWING NO. 7

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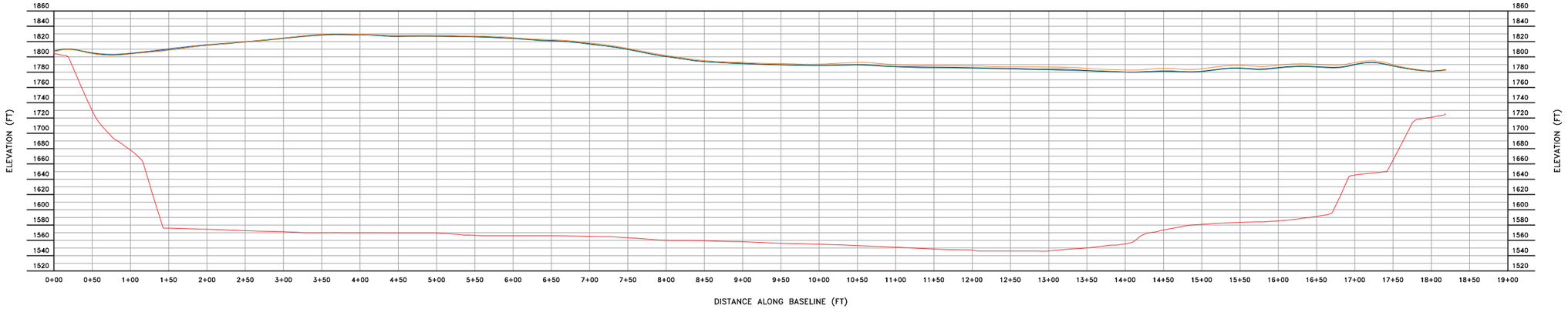

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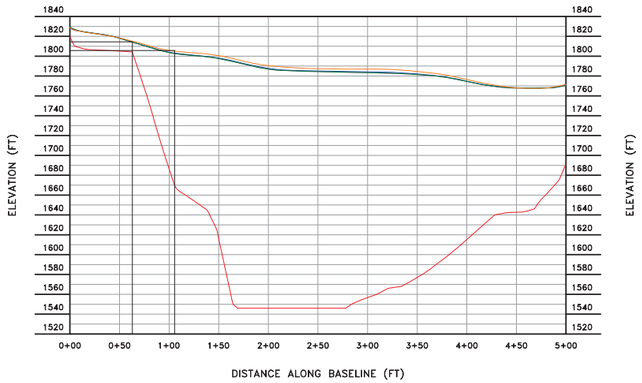

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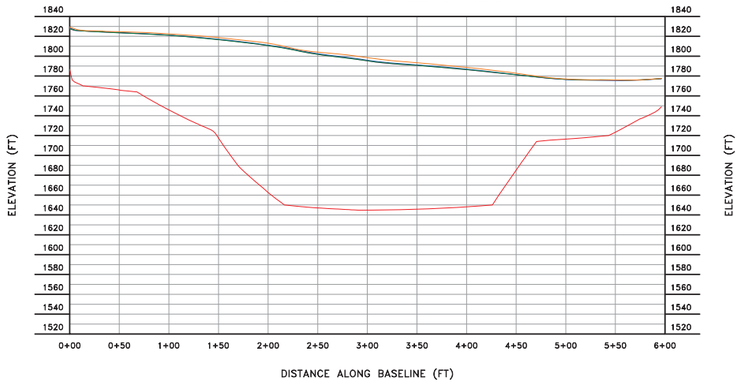

LEGEND

- BOTTOM LINER ELEVATION
- MARCH 2024 TOPO
- DECEMBER 2024 TOPO
- FEBRUARY 2025 TOPO
- MARCH 2025 TOPO

NO.	REVISION	DATE

SHEET TITLE: **PROFILES**

PROJECT TITLE: **MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588**

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK, MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX. (804) 378-7433

PROJ. NO. 02226208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
Q/A RVW. BY: VMM
APP. BY: CJW

CADD FILE: SURF COMP
DATE: 4/2/2025
SCALE:
DRAWING NO. 8

Appendix F

Field Logs

Lab Report

Historical LFG-EW Leachate Monitoring Results Summary

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

Date	March 4 and 5, 2025													
Personnel	M. Nguyen, L. Nelson								Checked By:				L. Howard	
Location ID	Date	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-36A	3/5/2025	5.80	49.14	52.94	459999	59999	180.00	135	130.86	Y	0	N	X	Pump is off, lost PVC
EW-49	3/5/2025	6.49	70.62	73.94	79565	79565	96.15	87	25.53	Y	0	N	X	Air is off
EW-50	3/5/2025	5.10	50.57	49.04	1539187	1513919	77.70	83	27.13	Y	80	Y	X	Sampled at 1005
EW-52	3/4/2025	3.63	45.32	47.78	1235299	1233644	98.70	80	53.38	Y	110	N	X	Can not disconnected air line, sticky
EW-53	3/4/2025	5.11	42.53	54.00	3294525	3294343	100.70	77	58.17	Y	120	N	X	
EW-54	3/4/2025	4.76	31.78	34.10	--	1207083	82.70	65	50.92	Y	0	N	X	Air line disconnected, no cycle count
EW-55	3/4/2025	4.21	34.79	43.00	73374	72336	90.40	90	55.61	Y	0	N	X	Air line disconnected
EW-59	3/4/2025	4.56	34.17	59.75	3536810	3497038	73.40	61	39.23	Y	0	N	X	Air line disconnected
EW-60	3/5/2025	5.00	48.93	49.32	126607	101985	81.80	72.5	32.87	Y	110	Y	X	Sampled at 9:10
EW-61	3/5/2025	3.29	62.18	75.23	--	431469	87.80	75	25.62	Y	0	N	X	All lines disconnected, no cycle count
EW-64	3/5/2025	4.58	79.12	90.24	196791	196791	109.00	90	29.88	Y	0	N	X	Air is on, pressure reading at zero
EW-65	3/5/2025	5.81	50.37	62.95	77157	77153	88.40	70	38.03	Y	0	N	X	Air is off
EW-67	3/4/2025	3.33	39.66	42.92	28743	288741	107.75	76	68.09	Y	0	N	X	Air is off
EW-68	3/5/2025	1.82	43.82	45.07	2642840	2638794	73.57	60	29.75	Y	120	Y	X	Sampled at 8:25
EW-69	3/5/2025	4.64	see note	95.33	--	18	98.00	---	---	N	--	N	X	Liquid depth 120.2 (possibly misinterpreted)
EW-78	3/5/2025	3.76	45.41	49.01	18075	2486	57.00	47	11.59	Y	95	N	X	
EW-81	3/5/2025	6.58	62.28	106.91	--	---	151.56	125	89.28	Y	0	N	X	Too high to read cycle count, air line disconnected
EW-82	3/5/2025	4.53	144.34	134.47	631288	631289	163.26	145	18.92	Y	0	N	X	Air was off
EW-83	3/5/2025	5.67	86.25	97.63	69720	---	167.04	145	80.79	Y	0	N	X	Air was off
EW-85	3/5/2025	4.90	55.73	61.46	292827	252602	91.00	78	35.27	Y	--	N	X	Air line disconnected
EW-93	3/4/2025	4.34	58.88	39.70	1283214	896817	111.00	---	52.12	Y	95	N	X	
EW-96	3/4/2025	7.05	48.23	---	--	---	164.35	145	116.12	Y	0	N	X	too high to read, air is off
EW-98	3/4/2025	4.58	32.17	33.70	1637860	1500838	51.00	46	18.83	Y	110	N	X	

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

Date	March 4 and 5, 2025													
Personnel	M. Nguyen, L. Nelson								Checked By:				L. Howard	
Location ID	Date	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-56	3/4/2025	5.48	Dry	Dry	--	---	42.71	---	Dry	N	--	N	X	DTB= 38.84
EW-66	3/4/2025	6.38	30.98	48.41	--	---	---	---	---	N	--	N	X	
EW-70	3/5/2025	1.82	64.63	65.13	--	---	71.00	58	6.37	N	--	N	X	
EW-71	3/5/2025	5.66	169.49	159.70	--	---	185.80	---	16.31	N	--	N	X	
EW-72	3/5/2025	5.28	117.34	118.54	--	---	141.21	---	23.87	N	--	N	X	
EW-73	3/5/2025	4.06	107.40	107.53	--	---	116.00	---	8.60	N	--	N	X	
EW-74	3/5/2025	7.00	159.73	159.68	--	---	184.15	---	24.42	N	--	N	X	
EW-77	3/5/2025	6.51	120.72	---	--	---	185.22	---	64.50	N	--	N	X	
EW-79	3/5/2025	6.09	153.83	134.39	--	---	185.64	---	31.81	N	--	N	X	
EW-80	3/5/2025	2.97	137.84	---	--	---	149.00	---	11.16	N	--	N	X	
EW-84	3/5/2025	3.80	81.62	---	--	---	130.56	---	48.94	N	--	N	X	
EW-86	3/5/2025	3.28	77.14	80.93	--	---	153.00	---	75.86	N	--	N	X	
EW-91	3/4/2025	5.98	47.19	41.23	--	---	137.70	---	90.51	N	--	N	X	No O-ring gasket
EW-92	3/4/2025	8.26	DNM	---	--	---	112.99	---	---	N	--	N	X	Too high for reading, air line disconnected
EW-95	DNM	DNM	DNM	67.18	--	---	68.00	---	--	N	--	N	X	Caution tape
EW-97	3/4/2025	8.65	DNM	---	--	---	144.50	---	---	N	--	N	X	Too high for reading
EW-99	3/4/2025	4.71	58.78	60.35	--	---	65.00	---	6.22	N	--	N	X	

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

Date	March 4 and 5, 2025													
Personnel	M. Nguyen, L. Nelson								Checked By:					L. Howard
Location ID	Date	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														
EW-33B[2]	3/5/2025	5.51	DNM	102.76	--	94	185.00	140	--	N	--	N	X	No cycle count, no lines connected
EW-75[1]	3/5/2025	6.10	DNM	DNM	--	---	130.82	140	---	N	--	N		No cycle count, no lines connected
EW-76[2]	3/5/2025	3.64	DNM	DNM	--	---	127.00	108	---	Y	--	N	X	
EW-87[2]	3/5/2025	6.36	DNM	59.61	340749	340749	149.57	110	--	Y	0	N	X	Air turn off
EW-88[2]	3/5/2025	4.43	DNM	54.89	--	254736	100.00	61	--	Y	0	N	X	Air disconnected
EW-89[2]	3/5/2025	4.89	DNM	46.98	--	---	84.57	70	--	Y	0	N	X	Air turn off
EW-94[1]	3/4/2025	3.54	DNM	DNM	987027	697364	50.00	38	---	Y	90	N	X	
DO NOT MEASURE - WELLS SHUT DOWN DUE TO ISSUES IN AREA SURROUNDING WELL														
EW-62	DNM	DNM	DNM	74.52	--	214599	110.60	91.5	--	Y	--	N		
EW-63	DNM	DNM	DNM	74.52	--	---	117.00	---	--	Y	--	N		

DNM = Do not measure
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.

Dual Phase LFG-EW Sample Collection Log

Location ID	Sample Date	Sample Time	Temperature (oC)	pH (s.u.)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Observations
EW-33B	---	---	---	---	---	---	---	---	---
EW-36A	---	---	---	---	---	---	---	---	---
EW-49	---	---	---	---	---	---	---	---	---
EW-50	3/5/2025	10:05	58.3	7.69	18.74	0.18	-157.2	40.43	Brownish
EW-51	---	---	---	---	---	---	---	---	---
EW-52	---	---	---	---	---	---	---	---	---
EW-53	---	---	---	---	---	---	---	---	---
EW-54	---	---	---	---	---	---	---	---	---
EW-55	---	---	---	---	---	---	---	---	---
EW-57	---	---	---	---	---	---	---	---	---
EW-58	---	---	---	---	---	---	---	---	---
EW-59	---	---	---	---	---	---	---	---	---
EW-60	3/5/2025	9:10	70.50	6.65	29.20	0.19	-228.30	0.00	Black, heavy sheen
EW-61	---	---	---	---	---	---	---	---	---
EW-62	---	---	---	---	---	---	---	---	---
EW-64	---	---	---	---	---	---	---	---	---
EW-67	---	---	---	---	---	---	---	---	---
EW-68	3/5/2025	8:25	69.50	6.63	30.60	0.65	-197.50	0.00	Dark greenish grey
EW-70	---	---	---	---	---	---	---	---	---
EW-72	---	---	---	---	---	---	---	---	---

Dual Phase LFG-EW Sample Collection Log

Location ID	Sample Date	Sample Time	Temperature (oC)	pH (s.u.)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Observations
EW-73	---	---	---	---	---	---	---	---	---
EW-74	---	---	---	---	---	---	---	---	---
EW-75	---	---	---	---	---	---	---	---	---
EW-76	---	---	---	---	---	---	---	---	---
EW-78	---	---	---	---	---	---	---	---	---
EW-81	---	---	---	---	---	---	---	---	---
EW-82	---	---	---	---	---	---	---	---	---
EW-83	---	---	---	---	---	---	---	---	---
EW-85	---	---	---	---	---	---	---	---	---
EW-87	---	---	---	---	---	---	---	---	---
EW-88	---	---	---	---	---	---	---	---	---
EW-89	---	---	---	---	---	---	---	---	---
EW-90	---	---	---	---	---	---	---	---	---
EW-91	---	---	---	---	---	---	---	---	---
EW-92	---	---	---	---	---	---	---	---	---
EW-94	---	---	---	---	---	---	---	---	---
EW-96	---	---	---	---	---	---	---	---	---
EW-98	---	---	---	---	---	---	---	---	---
EW-100	---	---	---	---	---	---	---	---	---
Sampler:		M. Nguyen, L. Nelson				Samples Shipped By: FedEx			
Log Checked By:		L. Howard				Laboratory: Enthalpy Analytical			

* D.O. gave an error of +++++ on YSI, could not get a reading

TNI Accredited
VELAP ID 460021

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

Certificate of Analysis

Final Report

Laboratory Order ID 25C0528

Client Name:	SCS Engineers - Winchester 296 Victory Road Winchester, VA 22602	Date Received:	March 6, 2025 10:05
		Date Issued:	March 28, 2025 13:40
		Project Number:	02218208.15 Task 3
Submitted To:	Jennifer Robb	Purchase Order:	
Client Site I.D.:	LFG-EW Monthly Monitoring		

Enclosed are the results of analyses for samples received by the laboratory on 03/06/2025 10:05. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Keith Sprouse
Laboratory Manager

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.

Enthalpy Analytical
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Analysis Detects Report

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

Date Issued: 3/28/2025 1:40:42PM

Laboratory Sample ID: **25C0528-01** **Client Sample ID:** **EW-68**

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	01	SW6010D	0.254		0.0100	0.0200	1	mg/L
Barium	01	SW6010D	2.93		0.0050	0.0100	1	mg/L
Chromium	01	SW6010D	0.155		0.0080	0.0100	1	mg/L
Copper	01	SW6010D	0.0142		0.0080	0.0100	1	mg/L
Lead	01	SW6010D	0.0229		0.0060	0.0100	1	mg/L
Nickel	01	SW6010D	0.0818		0.0070	0.0100	1	mg/L
Zinc	01	SW6010D	0.0277		0.0100	0.0100	1	mg/L
2-Butanone (MEK)	01RE1	SW8260D	33700		1500	5000	500	ug/L
Acetone	01RE1	SW8260D	86400		3500	5000	500	ug/L
Benzene	01	SW8260D	2350		20.0	50.0	50	ug/L
Ethylbenzene	01	SW8260D	117		20.0	50.0	50	ug/L
Tetrahydrofuran	01	SW8260D	10000		500	500	50	ug/L
Toluene	01	SW8260D	166		25.0	50.0	50	ug/L
Xylenes, Total	01	SW8260D	200		50.0	150	50	ug/L
Ammonia as N	01	EPA350.1 R2.0	2110		146	200	2000	mg/L
BOD	01	SM5210B-2016	22000		0.2	2.0	1	mg/L
COD	01	SM5220D-2011	51500		5000	5000	500	mg/L
TKN as N	01	EPA351.2 R2.0	2700		100	250	500	mg/L
Total Recoverable Phenolics	01	SW9065	25.9		0.750	1.25	1	mg/L

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Analysis Detects Report

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

Date Issued: 3/28/2025 1:40:42PM

Laboratory Sample ID: **25C0528-02** **Client Sample ID:** **EW-60**

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	02	SW6010D	0.344		0.0100	0.0200	1	mg/L
Barium	02	SW6010D	1.05		0.0050	0.0100	1	mg/L
Cadmium	02	SW6010D	0.0119		0.0020	0.0040	1	mg/L
Chromium	02	SW6010D	0.199		0.0080	0.0100	1	mg/L
Lead	02	SW6010D	0.0816		0.0060	0.0100	1	mg/L
Mercury	02	SW6020B	14.6		2.00	2.00	10	ug/L
Nickel	02	SW6010D	0.0375		0.0070	0.0100	1	mg/L
Zinc	02	SW6010D	0.155		0.0100	0.0100	1	mg/L
2-Butanone (MEK)	02RE1	SW8260D	30600		1500	5000	500	ug/L
Acetone	02RE1	SW8260D	72600		3500	5000	500	ug/L
Benzene	02	SW8260D	1260		20.0	50.0	50	ug/L
Ethylbenzene	02	SW8260D	168		20.0	50.0	50	ug/L
Tetrahydrofuran	02	SW8260D	4890		500	500	50	ug/L
Toluene	02	SW8260D	150		25.0	50.0	50	ug/L
Xylenes, Total	02	SW8260D	386		50.0	150	50	ug/L
Ammonia as N	02	EPA350.1 R2.0	1480		146	200	2000	mg/L
BOD	02	SM5210B-2016	20400		0.2	2.0	1	mg/L
COD	02	SM5220D-2011	74600		10000	10000	1000	mg/L
TKN as N	02	EPA351.2 R2.0	1920		100	250	500	mg/L
Total Recoverable Phenolics	02	SW9065	21.4		0.750	1.25	1	mg/L

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Analysis Detects Report

Date Issued: 3/28/2025 1:40:42PM

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

Laboratory Sample ID: **25C0528-03** **Client Sample ID:** **EW-50**

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	03	SW6010D	0.158		0.0100	0.0200	1	mg/L
Barium	03	SW6010D	0.516		0.0050	0.0100	1	mg/L
Chromium	03	SW6010D	0.248		0.0080	0.0100	1	mg/L
Copper	03	SW6010D	0.0087	J	0.0080	0.0100	1	mg/L
Lead	03	SW6010D	0.0113		0.0060	0.0100	1	mg/L
Nickel	03	SW6010D	0.0933		0.0070	0.0100	1	mg/L
Zinc	03	SW6010D	0.0415		0.0100	0.0100	1	mg/L
2-Butanone (MEK)	03	SW8260D	2540		150	500	50	ug/L
Acetone	03	SW8260D	4460		350	500	50	ug/L
Benzene	03	SW8260D	157		20.0	50.0	50	ug/L
Ethylbenzene	03	SW8260D	61.5		20.0	50.0	50	ug/L
Toluene	03	SW8260D	90.5		25.0	50.0	50	ug/L
Xylenes, Total	03	SW8260D	108	J	50.0	150	50	ug/L
Ammonia as N	03	EPA350.1 R2.0	1240		146	200	2000	mg/L
BOD	03	SM5210B-2016	3490		0.2	2.0	1	mg/L
COD	03	SM5220D-2011	8700		1000	1000	100	mg/L
TKN as N	03	EPA351.2 R2.0	1230		40.0	100	200	mg/L
Total Recoverable Phenolics	03	SW9065	3.88		0.300	0.500	1	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".

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Certificate of Analysis

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

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EW-68	25C0528-01	Waste Water	03/05/2025 08:25	03/06/2025 10:05
EW-60	25C0528-02	Waste Water	03/05/2025 09:10	03/06/2025 10:05
EW-50	25C0528-03	Waste Water	03/05/2025 10:05	03/06/2025 10:05
Trip Blank	25C0528-04	Waste Water	01/27/2025 10:10	03/06/2025 10:05

COA reissued on 3/28/25 to correct to VOCs and SVOCs reported.

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Certificate of Analysis

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

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

Client Sample ID: **EW-68** **Laboratory Sample ID:** **25C0528-01**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	01	7440-22-4	SW6010D	03/10/2025 17:00	03/11/2025 17:38	BLOD		0.0050	0.0100	1	mg/L	MDW
Arsenic	01	7440-38-2	SW6010D	03/10/2025 17:00	03/11/2025 17:38	0.254		0.0100	0.0200	1	mg/L	MDW
Barium	01	7440-39-3	SW6010D	03/10/2025 17:00	03/11/2025 17:38	2.93		0.0050	0.0100	1	mg/L	MDW
Cadmium	01	7440-43-9	SW6010D	03/10/2025 17:00	03/11/2025 17:38	BLOD		0.0020	0.0040	1	mg/L	MDW
Chromium	01	7440-47-3	SW6010D	03/10/2025 17:00	03/11/2025 17:38	0.155		0.0080	0.0100	1	mg/L	MDW
Copper	01	7440-50-8	SW6010D	03/10/2025 17:00	03/11/2025 17:38	0.0142		0.0080	0.0100	1	mg/L	MDW
Mercury	01	7439-97-6	SW6020B	03/10/2025 17:00	03/11/2025 14:05	BLOD		1.00	1.00	5	ug/L	AB
Nickel	01	7440-02-0	SW6010D	03/10/2025 17:00	03/11/2025 17:38	0.0818		0.0070	0.0100	1	mg/L	MDW
Lead	01	7439-92-1	SW6010D	03/10/2025 17:00	03/11/2025 17:38	0.0229		0.0060	0.0100	1	mg/L	MDW
Selenium	01	7782-49-2	SW6010D	03/10/2025 17:00	03/11/2025 17:38	BLOD		0.0400	0.0500	1	mg/L	MDW
Zinc	01	7440-66-6	SW6010D	03/10/2025 17:00	03/11/2025 17:38	0.0277		0.0100	0.0100	1	mg/L	MDW
Volatile Organic Compounds by GCMS												
2-Butanone (MEK)	01RE1	78-93-3	SW8260D	03/12/2025 19:23	03/12/2025 19:23	33700		1500	5000	500	ug/L	TLH
Acetone	01RE1	67-64-1	SW8260D	03/12/2025 19:23	03/12/2025 19:23	86400		3500	5000	500	ug/L	TLH
Benzene	01	71-43-2	SW8260D	03/11/2025 17:44	03/11/2025 17:44	2350		20.0	50.0	50	ug/L	TLH
Ethylbenzene	01	100-41-4	SW8260D	03/11/2025 17:44	03/11/2025 17:44	117		20.0	50.0	50	ug/L	TLH
Toluene	01	108-88-3	SW8260D	03/11/2025 17:44	03/11/2025 17:44	166		25.0	50.0	50	ug/L	TLH
Xylenes, Total	01	1330-20-7	SW8260D	03/11/2025 17:44	03/11/2025 17:44	200		50.0	150	50	ug/L	TLH
Tetrahydrofuran	01	109-99-9	SW8260D	03/11/2025 17:44	03/11/2025 17:44	10000		500	500	50	ug/L	TLH
Surr: 1,2-Dichloroethane-d4 (Surr)	*01*	*99.6 %*	*70-120*	*03/11/2025 17:44*	*03/11/2025 17:44*							
Surr: 4-Bromofluorobenzene (Surr)	*01*	*106 %*	*75-120*	*03/11/2025 17:44*	*03/11/2025 17:44*							
Surr: Dibromofluoromethane (Surr)	*01*	*95.3 %*	*70-130*	*03/11/2025 17:44*	*03/11/2025 17:44*							
Surr: Toluene-d8 (Surr)	*01*	*106 %*	*70-130*	*03/11/2025 17:44*	*03/11/2025 17:44*							
Surr: 1,2-Dichloroethane-d4 (Surr)	*01RE1*	*103 %*	*70-120*	*03/12/2025 19:23*	*03/12/2025 19:23*							

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Certificate of Analysis

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

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

Client Sample ID: **EW-68** **Laboratory Sample ID:** **25C0528-01**

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												
Surr: 4-Bromofluorobenzene (Surr)	*01RE1*	*107 %*	*75-120*	*03/12/2025 19:23*	*03/12/2025 19:23*							
Surr: Dibromofluoromethane (Surr)	*01RE1*	*93.0 %*	*70-130*	*03/12/2025 19:23*	*03/12/2025 19:23*							
Surr: Toluene-d8 (Surr)	*01RE1*	*105 %*	*70-130*	*03/12/2025 19:23*	*03/12/2025 19:23*							
Semivolatile Organic Compounds by GCMS												
Anthracene	01	120-12-7	SW8270E	03/11/2025 13:30	03/19/2025 18:49	BLOD		100	200	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	*01*	*54.0 %*	*5-136*	*03/11/2025 13:30*	*03/19/2025 18:49*							
Surr: 2-Fluorobiphenyl (Surr)	*01*	*25.2 %*	*9-117*	*03/11/2025 13:30*	*03/19/2025 18:49*							
Surr: 2-Fluorophenol (Surr)	*01*	*18.4 %*	*5-60*	*03/11/2025 13:30*	*03/19/2025 18:49*							
Surr: Nitrobenzene-d5 (Surr)	*01*	*53.6 %*	*5-151*	*03/11/2025 13:30*	*03/19/2025 18:49*							
Surr: Phenol-d5 (Surr)	*01*	*0.200 %*	*5-60*	*03/11/2025 13:30*	*03/19/2025 18:49*							*DS*
Surr: p-Terphenyl-d14 (Surr)	*01*	*4.80 %*	*5-141*	*03/11/2025 13:30*	*03/19/2025 18:49*							*DS*

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Submitted To: Jennifer Robb

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

Client Sample ID: **EW-68** **Laboratory Sample ID:** **25C0528-01**

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	03/14/2025 16:06	03/14/2025 16:06	2110		146	200	2000	mg/L	TEG
BOD	01	E1640606	SM5210B-2016	03/06/2025 17:03	03/06/2025 17:03	22000		0.2	2.0	1	mg/L	CET
COD	01	NA	SM5220D-2011	03/15/2025 12:00	03/15/2025 12:00	51500		5000	5000	500	mg/L	MJRL
Nitrate as N	01	14797-55-8	SM4500-NO3F-2019CALC	03/20/2025 16:00	03/20/2025 16:00	BLOD		2.00	10.0	200	mg/L	TEG
Nitrate+Nitrite as N	01	E701177	SM4500-NO3F-2019	03/20/2025 16:00	03/20/2025 16:00	BLOD		0.50	0.50	5	mg/L	TEG
Nitrite as N	01	14797-65-0	SM4500-NO2B-2021	03/06/2025 10:30	03/06/2025 10:30	BLOD		2.00	10.0	200	mg/L	TEG
Total Recoverable Phenolics	01	NA	SW9065	03/19/2025 19:00	03/19/2025 19:00	25.9		0.750	1.25	1	mg/L	MKS
TKN as N	01	E17148461	EPA351.2 R2.0	03/18/2025 11:08	03/18/2025 11:08	2700		100	250	500	mg/L	TEG

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Certificate of Analysis

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

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

Client Sample ID: **EW-60** **Laboratory Sample ID:** **25C0528-02**

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	02	7440-22-4	SW6010D	03/10/2025 17:00	03/11/2025 17:40	BLOD		0.0050	0.0100	1	mg/L	MDW
Arsenic	02	7440-38-2	SW6010D	03/10/2025 17:00	03/11/2025 17:40	0.344		0.0100	0.0200	1	mg/L	MDW
Barium	02	7440-39-3	SW6010D	03/10/2025 17:00	03/11/2025 17:40	1.05		0.0050	0.0100	1	mg/L	MDW
Cadmium	02	7440-43-9	SW6010D	03/10/2025 17:00	03/11/2025 17:40	0.0119		0.0020	0.0040	1	mg/L	MDW
Chromium	02	7440-47-3	SW6010D	03/10/2025 17:00	03/11/2025 17:40	0.199		0.0080	0.0100	1	mg/L	MDW
Copper	02	7440-50-8	SW6010D	03/10/2025 17:00	03/11/2025 17:40	BLOD		0.0080	0.0100	1	mg/L	MDW
Mercury	02	7439-97-6	SW6020B	03/10/2025 17:00	03/11/2025 13:38	14.6		2.00	2.00	10	ug/L	AB
Nickel	02	7440-02-0	SW6010D	03/10/2025 17:00	03/11/2025 17:40	0.0375		0.0070	0.0100	1	mg/L	MDW
Lead	02	7439-92-1	SW6010D	03/10/2025 17:00	03/11/2025 17:40	0.0816		0.0060	0.0100	1	mg/L	MDW
Selenium	02	7782-49-2	SW6010D	03/10/2025 17:00	03/11/2025 17:40	BLOD		0.0400	0.0500	1	mg/L	MDW
Zinc	02	7440-66-6	SW6010D	03/10/2025 17:00	03/11/2025 17:40	0.155		0.0100	0.0100	1	mg/L	MDW
Volatile Organic Compounds by GCMS												
2-Butanone (MEK)	02RE1	78-93-3	SW8260D	03/12/2025 19:46	03/12/2025 19:46	30600		1500	5000	500	ug/L	TLH
Acetone	02RE1	67-64-1	SW8260D	03/12/2025 19:46	03/12/2025 19:46	72600		3500	5000	500	ug/L	TLH
Benzene	02	71-43-2	SW8260D	03/11/2025 18:07	03/11/2025 18:07	1260		20.0	50.0	50	ug/L	TLH
Ethylbenzene	02	100-41-4	SW8260D	03/11/2025 18:07	03/11/2025 18:07	168		20.0	50.0	50	ug/L	TLH
Toluene	02	108-88-3	SW8260D	03/11/2025 18:07	03/11/2025 18:07	150		25.0	50.0	50	ug/L	TLH
Xylenes, Total	02	1330-20-7	SW8260D	03/11/2025 18:07	03/11/2025 18:07	386		50.0	150	50	ug/L	TLH
Tetrahydrofuran	02	109-99-9	SW8260D	03/11/2025 18:07	03/11/2025 18:07	4890		500	500	50	ug/L	TLH
Surr: 1,2-Dichloroethane-d4 (Surr)	*02*	*103 %*	*70-120*	*03/11/2025 18:07*	*03/11/2025 18:07*							
Surr: 4-Bromofluorobenzene (Surr)	*02*	*104 %*	*75-120*	*03/11/2025 18:07*	*03/11/2025 18:07*							
Surr: Dibromofluoromethane (Surr)	*02*	*96.0 %*	*70-130*	*03/11/2025 18:07*	*03/11/2025 18:07*							
Surr: Toluene-d8 (Surr)	*02*	*107 %*	*70-130*	*03/11/2025 18:07*	*03/11/2025 18:07*							
Surr: 1,2-Dichloroethane-d4 (Surr)	*02RE1*	*106 %*	*70-120*	*03/12/2025 19:46*	*03/12/2025 19:46*							

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Certificate of Analysis

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Submitted To: Jennifer Robb

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

Client Sample ID: **EW-60** **Laboratory Sample ID:** **25C0528-02**

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												
Surr: 4-Bromofluorobenzene (Surr)	*02RE1*	*107 %*	*75-120*	*03/12/2025 19:46*	*03/12/2025 19:46*							
Surr: Dibromofluoromethane (Surr)	*02RE1*	*96.7 %*	*70-130*	*03/12/2025 19:46*	*03/12/2025 19:46*							
Surr: Toluene-d8 (Surr)	*02RE1*	*105 %*	*70-130*	*03/12/2025 19:46*	*03/12/2025 19:46*							
Semivolatile Organic Compounds by GCMS												
Anthracene	02	120-12-7	SW8270E	03/11/2025 13:30	03/19/2025 19:18	BLOD		200	400	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	*02*	*96.6 %*	*5-136*	*03/11/2025 13:30*	*03/19/2025 19:18*							
Surr: 2-Fluorobiphenyl (Surr)	*02*	*44.4 %*	*9-117*	*03/11/2025 13:30*	*03/19/2025 19:18*							
Surr: 2-Fluorophenol (Surr)	*02*	*29.6 %*	*5-60*	*03/11/2025 13:30*	*03/19/2025 19:18*							
Surr: Nitrobenzene-d5 (Surr)	*02*	*195 %*	*5-151*	*03/11/2025 13:30*	*03/19/2025 19:18*							*DS*
Surr: Phenol-d5 (Surr)	*02*	*%*	*5-60*	*03/11/2025 13:30*	*03/19/2025 19:18*							*DS*
Surr: p-Terphenyl-d14 (Surr)	*02*	*37.2 %*	*5-141*	*03/11/2025 13:30*	*03/19/2025 19:18*							

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Work Order: 25C0528

Client Sample ID: **EW-60** **Laboratory Sample ID:** **25C0528-02**

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	03/14/2025 16:08	03/14/2025 16:08	1480		146	200	2000	mg/L	TEG
BOD	02	E1640606	SM5210B-2016	03/06/2025 17:00	03/06/2025 17:00	20400		0.2	2.0	1	mg/L	CET
COD	02	NA	SM5220D-2011	03/15/2025 12:00	03/15/2025 12:00	74600		10000	10000	1000	mg/L	MJRL
Nitrate as N	02	14797-55-8	SM4500-NO3F-2019CALC	03/20/2025 16:00	03/20/2025 16:00	BLOD		2.00	10.0	200	mg/L	TEG
Nitrate+Nitrite as N	02	E701177	SM4500-NO3F-2019	03/20/2025 16:00	03/20/2025 16:00	BLOD		0.50	0.50	5	mg/L	TEG
Nitrite as N	02	14797-65-0	SM4500-NO2B-2021	03/06/2025 10:30	03/06/2025 10:30	BLOD		2.00	10.0	200	mg/L	TEG
Total Recoverable Phenolics	02	NA	SW9065	03/19/2025 19:00	03/19/2025 19:00	21.4		0.750	1.25	1	mg/L	MKS
TKN as N	02	E17148461	EPA351.2 R2.0	03/18/2025 11:09	03/18/2025 11:09	1920		100	250	500	mg/L	TEG

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Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

Client Sample ID: **EW-50** **Laboratory Sample ID:** **25C0528-03**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	03	7440-22-4	SW6010D	03/10/2025 17:00	03/11/2025 17:41	BLOD		0.0050	0.0100	1	mg/L	MDW
Arsenic	03	7440-38-2	SW6010D	03/10/2025 17:00	03/11/2025 17:41	0.158		0.0100	0.0200	1	mg/L	MDW
Barium	03	7440-39-3	SW6010D	03/10/2025 17:00	03/11/2025 17:41	0.516		0.0050	0.0100	1	mg/L	MDW
Cadmium	03	7440-43-9	SW6010D	03/10/2025 17:00	03/11/2025 17:41	BLOD		0.0020	0.0040	1	mg/L	MDW
Chromium	03	7440-47-3	SW6010D	03/10/2025 17:00	03/11/2025 17:41	0.248		0.0080	0.0100	1	mg/L	MDW
Copper	03	7440-50-8	SW6010D	03/10/2025 17:00	03/11/2025 17:41	0.0087	J	0.0080	0.0100	1	mg/L	MDW
Mercury	03	7439-97-6	SW6020B	03/10/2025 17:00	03/11/2025 14:08	BLOD		1.00	1.00	5	ug/L	AB
Nickel	03	7440-02-0	SW6010D	03/10/2025 17:00	03/11/2025 17:41	0.0933		0.0070	0.0100	1	mg/L	MDW
Lead	03	7439-92-1	SW6010D	03/10/2025 17:00	03/11/2025 17:41	0.0113		0.0060	0.0100	1	mg/L	MDW
Selenium	03	7782-49-2	SW6010D	03/10/2025 17:00	03/11/2025 17:41	BLOD		0.0400	0.0500	1	mg/L	MDW
Zinc	03	7440-66-6	SW6010D	03/10/2025 17:00	03/11/2025 17:41	0.0415		0.0100	0.0100	1	mg/L	MDW

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Work Order: 25C0528

Client Sample ID: **EW-50** **Laboratory Sample ID:** **25C0528-03**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
2-Butanone (MEK)	03	78-93-3	SW8260D	03/11/2025 18:31	03/11/2025 18:31	2540		150	500	50	ug/L	TLH
Acetone	03	67-64-1	SW8260D	03/11/2025 18:31	03/11/2025 18:31	4460		350	500	50	ug/L	TLH
Benzene	03	71-43-2	SW8260D	03/11/2025 18:31	03/11/2025 18:31	157		20.0	50.0	50	ug/L	TLH
Ethylbenzene	03	100-41-4	SW8260D	03/11/2025 18:31	03/11/2025 18:31	61.5		20.0	50.0	50	ug/L	TLH
Toluene	03	108-88-3	SW8260D	03/11/2025 18:31	03/11/2025 18:31	90.5		25.0	50.0	50	ug/L	TLH
Xylenes, Total	03	1330-20-7	SW8260D	03/11/2025 18:31	03/11/2025 18:31	108	J	50.0	150	50	ug/L	TLH
Tetrahydrofuran	03	109-99-9	SW8260D	03/11/2025 18:31	03/11/2025 18:31	BLOD		500	500	50	ug/L	TLH
Surr: 1,2-Dichloroethane-d4 (Surr)	*03*		*104 %*	*70-120*	*03/11/2025 18:31*	*03/11/2025 18:31*						
Surr: 4-Bromofluorobenzene (Surr)	*03*		*106 %*	*75-120*	*03/11/2025 18:31*	*03/11/2025 18:31*						
Surr: Dibromofluoromethane (Surr)	*03*		*95.8 %*	*70-130*	*03/11/2025 18:31*	*03/11/2025 18:31*						
Surr: Toluene-d8 (Surr)	*03*		*107 %*	*70-130*	*03/11/2025 18:31*	*03/11/2025 18:31*						

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Work Order: 25C0528

Client Sample ID: **EW-50** **Laboratory Sample ID:** **25C0528-03**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Semivolatile Organic Compounds by GCMS												
Anthracene	03	120-12-7	SW8270E	03/11/2025 13:30	03/19/2025 19:47	BLOD		100	200	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	*03*		*62.6 % 5-136*	*03/11/2025 13:30*	*03/19/2025 19:47*							
Surr: 2-Fluorobiphenyl (Surr)	*03*		*32.8 % 9-117*	*03/11/2025 13:30*	*03/19/2025 19:47*							
Surr: 2-Fluorophenol (Surr)	*03*		*18.8 % 5-60*	*03/11/2025 13:30*	*03/19/2025 19:47*							
Surr: Nitrobenzene-d5 (Surr)	*03*		*39.8 % 5-151*	*03/11/2025 13:30*	*03/19/2025 19:47*							
Surr: Phenol-d5 (Surr)	*03*		*13.8 % 5-60*	*03/11/2025 13:30*	*03/19/2025 19:47*							
Surr: p-Terphenyl-d14 (Surr)	*03*		*16.0 % 5-141*	*03/11/2025 13:30*	*03/19/2025 19:47*							

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Client Sample ID: **EW-50** **Laboratory Sample ID:** **25C0528-03**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Ammonia as N	03	7664-41-7	EPA350.1 R2.0	03/14/2025 16:10	03/14/2025 16:10	1240		146	200	2000	mg/L	TEG
BOD	03	E1640606	SM5210B-2016	03/06/2025 17:02	03/06/2025 17:02	3490		0.2	2.0	1	mg/L	CET
COD	03	NA	SM5220D-2011	03/15/2025 12:00	03/15/2025 12:00	8700		1000	1000	100	mg/L	MJRL
Nitrate as N	03	14797-55-8	SM4500-NO3F-2019CALC	03/20/2025 16:00	03/20/2025 16:00	BLOD		2.00	10.0	200	mg/L	TEG
Nitrate+Nitrite as N	03	E701177	SM4500-NO3F-2019	03/20/2025 16:00	03/20/2025 16:00	BLOD		0.50	0.50	5	mg/L	TEG
Nitrite as N	03	14797-65-0	SM4500-NO2B-2021	03/06/2025 10:30	03/06/2025 10:30	BLOD		2.00	10.0	200	mg/L	TEG
Total Recoverable Phenolics	03	NA	SW9065	03/19/2025 19:00	03/19/2025 19:00	3.88		0.300	0.500	1	mg/L	MKS
TKN as N	03	E17148461	EPA351.2 R2.0	03/18/2025 11:10	03/18/2025 11:10	1230		40.0	100	200	mg/L	TEG

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Work Order: 25C0528

Client Sample ID: **Trip Blank** **Laboratory Sample ID:** **25C0528-04**

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												
2-Butanone (MEK)	04	78-93-3	SW8260D	03/11/2025 15:01	03/11/2025 15:01	BLOD		3.00	10.0	1	ug/L	TLH
Acetone	04	67-64-1	SW8260D	03/11/2025 15:01	03/11/2025 15:01	BLOD		7.00	10.0	1	ug/L	TLH
Benzene	04	71-43-2	SW8260D	03/11/2025 15:01	03/11/2025 15:01	BLOD		0.40	1.00	1	ug/L	TLH
Ethylbenzene	04	100-41-4	SW8260D	03/11/2025 15:01	03/11/2025 15:01	BLOD		0.40	1.00	1	ug/L	TLH
Toluene	04	108-88-3	SW8260D	03/11/2025 15:01	03/11/2025 15:01	BLOD		0.50	1.00	1	ug/L	TLH
Xylenes, Total	04	1330-20-7	SW8260D	03/11/2025 15:01	03/11/2025 15:01	BLOD		1.00	3.00	1	ug/L	TLH
Tetrahydrofuran	04	109-99-9	SW8260D	03/11/2025 15:01	03/11/2025 15:01	BLOD		10.0	10.0	1	ug/L	TLH
Surr: 1,2-Dichloroethane-d4 (Surr)	*04*	*105 %*	*70-120*	*03/11/2025 15:01*	*03/11/2025 15:01*							
Surr: 4-Bromofluorobenzene (Surr)	*04*	*104 %*	*75-120*	*03/11/2025 15:01*	*03/11/2025 15:01*							
Surr: Dibromofluoromethane (Surr)	*04*	*106 %*	*70-130*	*03/11/2025 15:01*	*03/11/2025 15:01*							
Surr: Toluene-d8 (Surr)	*04*	*107 %*	*70-130*	*03/11/2025 15:01*	*03/11/2025 15:01*							

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

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0454 - EPA200.2R2.8/SW3005A-ICP										
Blank (BIC0454-BLK1)				Prepared: 03/10/2025 Analyzed: 03/11/2025						
Arsenic	ND	0.0200	mg/L							
Barium	ND	0.0100	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.0100	mg/L							
Copper	ND	0.0100	mg/L							
Lead	ND	0.0100	mg/L							
Nickel	ND	0.0100	mg/L							
Selenium	ND	0.0500	mg/L							
Silver	ND	0.0100	mg/L							
Zinc	ND	0.0100	mg/L							
LCS (BIC0454-BS1)				Prepared: 03/10/2025 Analyzed: 03/11/2025						
Arsenic	0.504	0.0200	mg/L	0.500		101	80-120			
Barium	0.501	0.0100	mg/L	0.500		100	80-120			
Cadmium	0.507	0.0040	mg/L	0.500		101	80-120			
Chromium	0.506	0.0100	mg/L	0.500		101	80-120			
Copper	0.483	0.0100	mg/L	0.500		96.6	80-120			
Lead	0.508	0.0100	mg/L	0.500		102	80-120			
Nickel	0.5079	0.0100	mg/L	0.500		102	80-120			
Selenium	0.522	0.0500	mg/L	0.500		104	80-120			
Silver	0.0996	0.0100	mg/L	0.100		99.6	80-120			
Zinc	0.521	0.0100	mg/L	0.500		104	80-120			
Matrix Spike (BIC0454-MS1)	**Source: 25C0699-01**			Prepared: 03/10/2025 Analyzed: 03/11/2025						
Arsenic	0.526	0.0200	mg/L	0.500	BLOD	105	75-125			
Barium	0.663	0.0100	mg/L	0.500	0.161	100	75-125			

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

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0454 - EPA200.2R2.8/SW3005A-ICP										
Matrix Spike (BIC0454-MS1)	**Source: 25C0699-01**			Prepared: 03/10/2025 Analyzed: 03/11/2025						
Cadmium	0.485	0.0040	mg/L	0.500	BLOD	97.1	75-125			
Chromium	0.501	0.0100	mg/L	0.500	BLOD	100	75-125			
Copper	0.529	0.0100	mg/L	0.500	0.0232	101	75-125			
Lead	0.503	0.0100	mg/L	0.500	0.0088	98.8	75-125			
Nickel	0.5119	0.0100	mg/L	0.500	0.0213	98.1	75-125			
Selenium	0.614	0.0500	mg/L	0.500	0.0873	105	75-125			
Silver	0.0998	0.0100	mg/L	0.100	BLOD	99.8	75-125			
Zinc	0.516	0.0100	mg/L	0.500	BLOD	103	75-125			
Matrix Spike (BIC0454-MS2)	**Source: 25C0699-02**			Prepared: 03/10/2025 Analyzed: 03/11/2025						
Arsenic	0.509	0.0200	mg/L	0.500	BLOD	102	75-125			
Barium	0.632	0.0100	mg/L	0.500	0.158	94.8	75-125			
Cadmium	0.472	0.0040	mg/L	0.500	BLOD	94.4	75-125			
Chromium	0.491	0.0100	mg/L	0.500	BLOD	98.2	75-125			
Copper	0.517	0.0100	mg/L	0.500	0.0222	98.9	75-125			
Lead	0.492	0.0100	mg/L	0.500	0.0079	96.7	75-125			
Nickel	0.4960	0.0100	mg/L	0.500	0.0205	95.1	75-125			
Selenium	0.586	0.0500	mg/L	0.500	0.0878	99.7	75-125			
Silver	0.0965	0.0100	mg/L	0.100	BLOD	96.5	75-125			
Zinc	0.484	0.0100	mg/L	0.500	BLOD	96.7	75-125			
Matrix Spike Dup (BIC0454-MSD1)	**Source: 25C0699-01**			Prepared: 03/10/2025 Analyzed: 03/11/2025						
Arsenic	0.518	0.0200	mg/L	0.500	BLOD	104	75-125	1.50	20	
Barium	0.664	0.0100	mg/L	0.500	0.161	101	75-125	0.166	20	
Cadmium	0.482	0.0040	mg/L	0.500	BLOD	96.4	75-125	0.703	20	
Chromium	0.497	0.0100	mg/L	0.500	BLOD	99.4	75-125	0.781	20	

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Certificate of Analysis

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Submitted To: Jennifer Robb

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

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

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0454 - EPA200.2R2.8/SW3005A-ICP										
Matrix Spike Dup (BIC0454-MSD1)	**Source: 25C0699-01**			Prepared: 03/10/2025 Analyzed: 03/11/2025						
Copper	0.525	0.0100	mg/L	0.500	0.0232	100	75-125	0.759	20	
Lead	0.499	0.0100	mg/L	0.500	0.0088	98.0	75-125	0.799	20	
Nickel	0.5090	0.0100	mg/L	0.500	0.0213	97.5	75-125	0.568	20	
Selenium	0.608	0.0500	mg/L	0.500	0.0873	104	75-125	1.06	20	
Silver	0.0995	0.0100	mg/L	0.100	BLOD	99.5	75-125	0.301	20	
Zinc	0.497	0.0100	mg/L	0.500	BLOD	99.4	75-125	3.83	20	
Matrix Spike Dup (BIC0454-MSD2)	**Source: 25C0699-02**			Prepared: 03/10/2025 Analyzed: 03/11/2025						
Arsenic	0.524	0.0200	mg/L	0.500	BLOD	105	75-125	2.98	20	
Barium	0.671	0.0100	mg/L	0.500	0.158	102	75-125	5.86	20	
Cadmium	0.483	0.0040	mg/L	0.500	BLOD	96.7	75-125	2.41	20	
Chromium	0.503	0.0100	mg/L	0.500	BLOD	101	75-125	2.41	20	
Copper	0.529	0.0100	mg/L	0.500	0.0222	101	75-125	2.30	20	
Lead	0.504	0.0100	mg/L	0.500	0.0079	99.2	75-125	2.45	20	
Nickel	0.5090	0.0100	mg/L	0.500	0.0205	97.7	75-125	2.59	20	
Selenium	0.606	0.0500	mg/L	0.500	0.0878	104	75-125	3.27	20	
Silver	0.101	0.0100	mg/L	0.100	BLOD	101	75-125	4.26	20	*E*
Zinc	0.497	0.0100	mg/L	0.500	BLOD	99.3	75-125	2.65	20	
Batch BIC0460 - EPA200.2R2.8/SW3005A-ICPMS										
Blank (BIC0460-BLK1)				Prepared: 03/10/2025 Analyzed: 03/11/2025						
Mercury	ND	0.200	ug/L							
LCS (BIC0460-BS1)				Prepared: 03/10/2025 Analyzed: 03/11/2025						
Mercury	0.942	0.200	ug/L	1.00		94.2	80-120			

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

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0460 - EPA200.2R2.8/SW3005A-ICPMS										
Matrix Spike (BIC0460-MS1)		**Source: 25C0758-01**		Prepared: 03/10/2025 Analyzed: 03/11/2025						
Mercury	0.949	0.200	ug/L	1.00	BLOD	94.9	70-130			
Matrix Spike Dup (BIC0460-MSD1)		**Source: 25C0758-01**		Prepared: 03/10/2025 Analyzed: 03/11/2025						
Mercury	0.954	0.200	ug/L	1.00	BLOD	95.4	70-130	0.606	20	

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
Blank (BIC0526-BLK1)				Prepared & Analyzed: 03/11/2025						
1,1,1,2-Tetrachloroethane	ND	0.40	ug/L							
1,1,1-Trichloroethane	ND	1.00	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.40	ug/L							
1,1,2-Trichloroethane	ND	1.00	ug/L							
1,1-Dichloroethane	ND	1.00	ug/L							
1,1-Dichloroethylene	ND	1.00	ug/L							
1,1-Dichloropropene	ND	1.00	ug/L							
1,2,3-Trichlorobenzene	ND	1.00	ug/L							
1,2,3-Trichloropropane	ND	1.00	ug/L							
1,2,4-Trichlorobenzene	ND	1.00	ug/L							
1,2,4-Trimethylbenzene	ND	1.00	ug/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.00	ug/L							
1,2-Dibromoethane (EDB)	ND	1.00	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	1.00	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	1.00	ug/L							
1,3-Dichlorobenzene	ND	1.00	ug/L							
1,3-Dichloropropane	ND	1.00	ug/L							
1,4-Dichlorobenzene	ND	1.00	ug/L							
2,2-Dichloropropane	ND	1.00	ug/L							
2-Butanone (MEK)	ND	10.0	ug/L							
2-Chlorotoluene	ND	1.00	ug/L							
2-Hexanone (MBK)	ND	5.00	ug/L							
4-Chlorotoluene	ND	1.00	ug/L							

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Volatile Organic Compounds by GCMS - Quality Control

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
Blank (BIC0526-BLK1)				Prepared & Analyzed: 03/11/2025						
4-Isopropyltoluene	ND	1.00	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	5.00	ug/L							
Acetone	ND	10.0	ug/L							
Benzene	ND	1.00	ug/L							
Bromobenzene	ND	1.00	ug/L							
Bromochloromethane	ND	1.00	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	1.00	ug/L							
Bromomethane	ND	1.00	ug/L							
Carbon disulfide	ND	10.0	ug/L							
Carbon tetrachloride	ND	1.00	ug/L							
Chlorobenzene	ND	1.00	ug/L							
Chloroethane	ND	1.00	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	1.00	ug/L							
cis-1,2-Dichloroethylene	ND	1.00	ug/L							
cis-1,3-Dichloropropene	ND	1.00	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	1.00	ug/L							
Dichlorodifluoromethane	ND	1.00	ug/L							
Di-isopropyl ether (DIPE)	ND	5.00	ug/L							
Ethylbenzene	ND	1.00	ug/L							
Hexachlorobutadiene	ND	0.80	ug/L							
Iodomethane	ND	10.0	ug/L							
Isopropylbenzene	ND	1.00	ug/L							

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
Blank (BIC0526-BLK1)				Prepared & Analyzed: 03/11/2025						
m+p-Xylenes	ND	2.00	ug/L							
Methylene chloride	ND	4.00	ug/L							
Methyl-t-butyl ether (MTBE)	ND	1.00	ug/L							
Naphthalene	ND	1.00	ug/L							
n-Butylbenzene	ND	1.00	ug/L							
n-Propylbenzene	ND	1.00	ug/L							
o-Xylene	ND	1.00	ug/L							
sec-Butylbenzene	ND	1.00	ug/L							
Styrene	ND	1.00	ug/L							
tert-Butylbenzene	ND	1.00	ug/L							
Tetrachloroethylene (PCE)	ND	1.00	ug/L							
Toluene	ND	1.00	ug/L							
trans-1,2-Dichloroethylene	ND	1.00	ug/L							
trans-1,3-Dichloropropene	ND	1.00	ug/L							
Trichloroethylene	ND	1.00	ug/L							
Trichlorofluoromethane	ND	1.00	ug/L							
Vinyl acetate	ND	10.0	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, Total	ND	3.00	ug/L							
Surr: 1,2-Dichloroethane-d4 (Surr)	*48.8*		ug/L	*50.0*		*97.5*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*52.7*		ug/L	*50.0*		*105*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*44.0*		ug/L	*50.0*		*88.0*	*70-130*			
Surr: Toluene-d8 (Surr)	*53.2*		ug/L	*50.0*		*106*	*70-130*			
LCS (BIC0526-BS1)				Prepared & Analyzed: 03/11/2025						

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
LCS (BIC0526-BS1)				Prepared & Analyzed: 03/11/2025						
1,1,1,2-Tetrachloroethane	58.7		ug/L	50.0		117	80-130			
1,1,1-Trichloroethane	47.2		ug/L	50.0		94.3	65-130			
1,1,2,2-Tetrachloroethane	60.2		ug/L	50.0		120	65-130			
1,1,2-Trichloroethane	55.0		ug/L	50.0		110	75-125			
1,1-Dichloroethane	47.2		ug/L	50.0		94.4	70-135			
1,1-Dichloroethylene	36.1		ug/L	50.0		72.3	70-130			
1,1-Dichloropropene	49.2		ug/L	50.0		98.5	75-135			
1,2,3-Trichlorobenzene	48.0		ug/L	50.0		95.9	55-140			
1,2,3-Trichloropropane	59.5		ug/L	50.0		119	75-125			
1,2,4-Trichlorobenzene	49.3		ug/L	50.0		98.6	65-135			
1,2,4-Trimethylbenzene	51.9		ug/L	50.0		104	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	52.2		ug/L	50.0		104	50-130			
1,2-Dibromoethane (EDB)	52.1		ug/L	50.0		104	80-120			
1,2-Dichlorobenzene	52.4		ug/L	50.0		105	70-120			
1,2-Dichloroethane	44.9		ug/L	50.0		89.8	70-130			
1,2-Dichloropropane	56.5		ug/L	50.0		113	75-125			
1,3,5-Trimethylbenzene	51.8		ug/L	50.0		104	75-125			
1,3-Dichlorobenzene	52.4		ug/L	50.0		105	75-125			
1,3-Dichloropropane	55.6		ug/L	50.0		111	75-125			
1,4-Dichlorobenzene	50.2		ug/L	50.0		100	75-125			
2,2-Dichloropropane	51.0		ug/L	50.0		102	70-135			
2-Butanone (MEK)	40.7		ug/L	50.0		81.4	30-150			
2-Chlorotoluene	49.6		ug/L	50.0		99.2	75-125			
2-Hexanone (MBK)	59.2		ug/L	50.0		118	55-130			
4-Chlorotoluene	50.0		ug/L	50.0		100	75-130			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
LCS (BIC0526-BS1)				Prepared & Analyzed: 03/11/2025						
4-Isopropyltoluene	55.7		ug/L	50.0		111	75-130			
4-Methyl-2-pentanone (MIBK)	58.7		ug/L	50.0		117	60-135			
Acetone	43.4		ug/L	50.0		86.8	40-140			
Benzene	50.8		ug/L	50.0		102	80-120			
Bromobenzene	53.3		ug/L	50.0		107	75-125			
Bromochloromethane	45.0		ug/L	50.0		90.0	65-130			
Bromodichloromethane	52.8		ug/L	50.0		106	75-120			
Bromoform	46.6		ug/L	50.0		93.1	70-130			
Bromomethane	44.0		ug/L	50.0		87.9	30-145			
Carbon disulfide	34.7		ug/L	50.0		69.5	35-160			
Carbon tetrachloride	47.7		ug/L	50.0		95.3	65-140			
Chlorobenzene	50.8		ug/L	50.0		102	80-120			
Chloroethane	43.8		ug/L	50.0		87.6	60-135			
Chloroform	45.3		ug/L	50.0		90.6	65-135			
Chloromethane	42.9		ug/L	50.0		85.9	40-125			
cis-1,2-Dichloroethylene	46.2		ug/L	50.0		92.5	70-125			
cis-1,3-Dichloropropene	59.2		ug/L	50.0		118	70-130			
Dibromochloromethane	60.2		ug/L	50.0		120	60-135			
Dibromomethane	48.2		ug/L	50.0		96.3	75-125			
Dichlorodifluoromethane	47.8		ug/L	50.0		95.6	30-155			
Ethylbenzene	53.5		ug/L	50.0		107	75-125			
Hexachlorobutadiene	52.0		ug/L	50.0		104	50-140			
Isopropylbenzene	49.7		ug/L	50.0		99.5	75-125			
m+p-Xylenes	102		ug/L	100		102	75-130			
Methylene chloride	43.2		ug/L	50.0		86.3	55-140			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
LCS (BIC0526-BS1)				Prepared & Analyzed: 03/11/2025						
Methyl-t-butyl ether (MTBE)	47.9	1.00	ug/L				65-125			
Naphthalene	46.7		ug/L	50.0		93.4	55-140			
n-Butylbenzene	56.3		ug/L	50.0		113	70-135			
n-Propylbenzene	51.7		ug/L	50.0		103	70-130			
o-Xylene	52.6		ug/L	50.0		105	80-120			
sec-Butylbenzene	56.1		ug/L	50.0		112	70-125			
Styrene	54.6		ug/L	50.0		109	65-135			
tert-Butylbenzene	53.1		ug/L	50.0		106	70-130			
Tetrachloroethylene (PCE)	68.8		ug/L	50.0		138	45-150			
Toluene	48.9		ug/L	50.0		97.9	75-120			
trans-1,2-Dichloroethylene	37.5		ug/L	50.0		75.1	60-140			
trans-1,3-Dichloropropene	48.1		ug/L	50.0		96.1	55-140			
Trichloroethylene	48.7		ug/L	50.0		97.5	70-125			
Trichlorofluoromethane	42.2		ug/L	50.0		84.5	60-145			
Vinyl chloride	36.4		ug/L	50.0		72.8	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	*52.5*		ug/L	*50.0*		*105*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*52.1*		ug/L	*50.0*		*104*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*47.2*		ug/L	*50.0*		*94.5*	*70-130*			
Surr: Toluene-d8 (Surr)	*52.8*		ug/L	*50.0*		*106*	*70-130*			
Matrix Spike (BIC0526-MS1)	**Source: 25C0640-01**			Prepared & Analyzed: 03/11/2025						
1,1,1,2-Tetrachloroethane	54.6		ug/L	50.0	BLOD	109	80-130			
1,1,1-Trichloroethane	46.8		ug/L	50.0	BLOD	93.6	65-130			
1,1,2,2-Tetrachloroethane	57.0		ug/L	50.0	BLOD	114	65-130			
1,1,2-Trichloroethane	53.5		ug/L	50.0	BLOD	107	75-125			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
Matrix Spike (BIC0526-MS1)	**Source: 25C0640-01**			Prepared & Analyzed: 03/11/2025						
1,1-Dichloroethane	45.4		ug/L	50.0	BLOD	90.7	70-135			
1,1-Dichloroethylene	35.4		ug/L	50.0	BLOD	70.7	50-145			
1,1-Dichloropropene	48.4		ug/L	50.0	BLOD	96.7	75-135			
1,2,3-Trichlorobenzene	46.8		ug/L	50.0	BLOD	93.6	55-140			
1,2,3-Trichloropropane	55.6		ug/L	50.0	BLOD	111	75-125			
1,2,4-Trichlorobenzene	47.8		ug/L	50.0	BLOD	95.6	65-135			
1,2,4-Trimethylbenzene	50.7		ug/L	50.0	BLOD	101	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	48.9		ug/L	50.0	BLOD	97.7	50-130			
1,2-Dibromoethane (EDB)	50.3		ug/L	50.0	BLOD	101	80-120			
1,2-Dichlorobenzene	51.0		ug/L	50.0	BLOD	102	70-120			
1,2-Dichloroethane	43.7		ug/L	50.0	BLOD	87.4	70-130			
1,2-Dichloropropane	53.6		ug/L	50.0	BLOD	107	75-125			
1,3,5-Trimethylbenzene	50.0		ug/L	50.0	BLOD	100	75-124			
1,3-Dichlorobenzene	50.9		ug/L	50.0	BLOD	102	75-125			
1,3-Dichloropropane	54.5		ug/L	50.0	BLOD	109	75-125			
1,4-Dichlorobenzene	49.6		ug/L	50.0	BLOD	99.1	75-125			
2,2-Dichloropropane	50.7		ug/L	50.0	BLOD	101	70-135			
2-Butanone (MEK)	46.1		ug/L	50.0	BLOD	92.1	30-150			
2-Chlorotoluene	48.2		ug/L	50.0	BLOD	96.3	75-125			
2-Hexanone (MBK)	55.1		ug/L	50.0	BLOD	110	55-130			
4-Chlorotoluene	49.2		ug/L	50.0	BLOD	98.3	75-130			
4-Isopropyltoluene	53.4		ug/L	50.0	BLOD	107	75-130			
4-Methyl-2-pentanone (MIBK)	54.3		ug/L	50.0	BLOD	109	60-135			
Acetone	43.4		ug/L	50.0	BLOD	78.1	40-140			
Benzene	49.6		ug/L	50.0	BLOD	99.2	80-120			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
Matrix Spike (BIC0526-MS1)	**Source: 25C0640-01**			Prepared & Analyzed: 03/11/2025						
Bromobenzene	52.5		ug/L	50.0	BLOD	105	75-125			
Bromochloromethane	45.3		ug/L	50.0	BLOD	90.6	65-130			
Bromodichloromethane	52.8		ug/L	50.0	BLOD	106	75-136			
Bromoform	45.4		ug/L	50.0	BLOD	90.7	70-130			
Bromomethane	44.0		ug/L	50.0	BLOD	87.9	30-145			
Carbon disulfide	30.2		ug/L	50.0	BLOD	60.1	35-160			
Carbon tetrachloride	46.8		ug/L	50.0	BLOD	93.6	65-140			
Chlorobenzene	49.2		ug/L	50.0	BLOD	98.3	80-120			
Chloroethane	45.9		ug/L	50.0	BLOD	91.8	60-135			
Chloroform	45.4		ug/L	50.0	BLOD	90.8	65-135			
Chloromethane	44.6		ug/L	50.0	BLOD	89.2	40-125			
cis-1,2-Dichloroethylene	45.6		ug/L	50.0	BLOD	91.1	70-125			
cis-1,3-Dichloropropene	57.5		ug/L	50.0	BLOD	115	47-136			
Dibromochloromethane	59.4		ug/L	50.0	BLOD	119	60-135			
Dibromomethane	46.5		ug/L	50.0	BLOD	93.0	75-125			
Dichlorodifluoromethane	47.0		ug/L	50.0	BLOD	94.1	30-155			
Ethylbenzene	51.9		ug/L	50.0	BLOD	104	75-125			
Hexachlorobutadiene	51.0		ug/L	50.0	BLOD	102	50-140			
Isopropylbenzene	48.3		ug/L	50.0	BLOD	96.6	75-125			
m+p-Xylenes	99.7		ug/L	100	BLOD	99.7	75-130			
Methylene chloride	44.4		ug/L	50.0	BLOD	88.8	55-140			
Methyl-t-butyl ether (MTBE)	46.4	1.00	ug/L		BLOD		65-125			
Naphthalene	45.0		ug/L	50.0	BLOD	90.0	55-140			
n-Butylbenzene	54.6		ug/L	50.0	BLOD	109	70-135			
n-Propylbenzene	50.3		ug/L	50.0	BLOD	101	70-130			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
Matrix Spike (BIC0526-MS1)	**Source: 25C0640-01**			Prepared & Analyzed: 03/11/2025						
o-Xylene	50.3		ug/L	50.0	BLOD	101	80-120			
sec-Butylbenzene	54.4		ug/L	50.0	BLOD	109	70-125			
Styrene	52.2		ug/L	50.0	BLOD	104	65-135			
tert-Butylbenzene	51.4		ug/L	50.0	BLOD	103	70-130			
Tetrachloroethylene (PCE)	67.5		ug/L	50.0	BLOD	135	51-231			
Toluene	48.7		ug/L	50.0	BLOD	97.4	75-120			
trans-1,2-Dichloroethylene	37.2		ug/L	50.0	BLOD	74.3	60-140			
trans-1,3-Dichloropropene	47.3		ug/L	50.0	BLOD	94.5	55-140			
Trichloroethylene	46.9		ug/L	50.0	BLOD	93.8	70-125			
Trichlorofluoromethane	43.6		ug/L	50.0	BLOD	87.2	60-145			
Vinyl chloride	35.5		ug/L	50.0	BLOD	70.9	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	*51.5*		ug/L	*50.0*		*103*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*52.5*		ug/L	*50.0*		*105*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*49.5*		ug/L	*50.0*		*99.0*	*70-130*			
Surr: Toluene-d8 (Surr)	*53.5*		ug/L	*50.0*		*107*	*70-130*			
Matrix Spike Dup (BIC0526-MSD1)	**Source: 25C0640-01**			Prepared & Analyzed: 03/11/2025						
1,1,1,2-Tetrachloroethane	55.4		ug/L	50.0	BLOD	111	80-130	1.55	30	
1,1,1-Trichloroethane	45.7		ug/L	50.0	BLOD	91.3	65-130	2.47	30	
1,1,2,2-Tetrachloroethane	56.6		ug/L	50.0	BLOD	113	65-130	0.651	30	
1,1,2-Trichloroethane	53.2		ug/L	50.0	BLOD	106	75-125	0.600	30	
1,1-Dichloroethane	45.5		ug/L	50.0	BLOD	91.1	70-135	0.396	30	
1,1-Dichloroethylene	36.3		ug/L	50.0	BLOD	72.6	50-145	2.65	30	
1,1-Dichloropropene	48.1		ug/L	50.0	BLOD	96.2	75-135	0.518	30	
1,2,3-Trichlorobenzene	46.9		ug/L	50.0	BLOD	93.7	55-140	0.192	30	

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
Matrix Spike Dup (BIC0526-MSD1)	**Source: 25C0640-01**			Prepared & Analyzed: 03/11/2025						
1,2,3-Trichloropropane	56.2		ug/L	50.0	BLOD	112	75-125	0.984	30	
1,2,4-Trichlorobenzene	45.5		ug/L	50.0	BLOD	90.9	65-135	5.06	30	
1,2,4-Trimethylbenzene	49.4		ug/L	50.0	BLOD	98.7	75-130	2.70	30	
1,2-Dibromo-3-chloropropane (DBCP)	48.5		ug/L	50.0	BLOD	97.0	50-130	0.801	30	
1,2-Dibromoethane (EDB)	49.8		ug/L	50.0	BLOD	99.6	80-120	0.999	30	
1,2-Dichlorobenzene	49.3		ug/L	50.0	BLOD	98.7	70-120	3.27	30	
1,2-Dichloroethane	42.9		ug/L	50.0	BLOD	85.8	70-130	1.89	30	
1,2-Dichloropropane	53.0		ug/L	50.0	BLOD	106	75-125	1.14	30	
1,3,5-Trimethylbenzene	48.7		ug/L	50.0	BLOD	97.4	75-124	2.64	30	
1,3-Dichlorobenzene	48.9		ug/L	50.0	BLOD	97.8	75-125	3.99	30	
1,3-Dichloropropane	54.4		ug/L	50.0	BLOD	109	75-125	0.221	30	
1,4-Dichlorobenzene	47.9		ug/L	50.0	BLOD	95.7	75-125	3.47	30	
2,2-Dichloropropane	47.5		ug/L	50.0	BLOD	95.0	70-135	6.48	30	
2-Butanone (MEK)	39.3		ug/L	50.0	BLOD	78.6	30-150	15.8	30	
2-Chlorotoluene	47.1		ug/L	50.0	BLOD	94.2	75-125	2.20	30	
2-Hexanone (MBK)	54.5		ug/L	50.0	BLOD	109	55-130	1.11	30	
4-Chlorotoluene	46.5		ug/L	50.0	BLOD	93.0	75-130	5.56	30	
4-Isopropyltoluene	52.1		ug/L	50.0	BLOD	104	75-130	2.43	30	
4-Methyl-2-pentanone (MIBK)	55.2		ug/L	50.0	BLOD	110	60-135	1.77	30	
Acetone	43.3		ug/L	50.0	BLOD	77.9	40-140	0.300	30	
Benzene	48.8		ug/L	50.0	BLOD	97.6	80-120	1.59	30	
Bromobenzene	50.8		ug/L	50.0	BLOD	102	75-125	3.23	30	
Bromochloromethane	41.4		ug/L	50.0	BLOD	82.9	65-130	8.90	30	
Bromodichloromethane	51.7		ug/L	50.0	BLOD	103	75-136	2.05	30	
Bromoform	45.0		ug/L	50.0	BLOD	90.0	70-130	0.797	30	

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
Matrix Spike Dup (BIC0526-MSD1)	**Source: 25C0640-01**			Prepared & Analyzed: 03/11/2025						
Bromomethane	45.2		ug/L	50.0	BLOD	90.5	30-145	2.85	30	
Carbon disulfide	34.8		ug/L	50.0	BLOD	69.3	35-160	14.1	30	
Carbon tetrachloride	46.3		ug/L	50.0	BLOD	92.5	65-140	1.12	30	
Chlorobenzene	48.4		ug/L	50.0	BLOD	96.7	80-120	1.64	30	
Chloroethane	44.9		ug/L	50.0	BLOD	89.9	60-135	2.16	30	
Chloroform	42.6		ug/L	50.0	BLOD	85.1	65-135	6.46	30	
Chloromethane	46.0		ug/L	50.0	BLOD	92.0	40-125	3.07	30	
cis-1,2-Dichloroethylene	41.6		ug/L	50.0	BLOD	83.2	70-125	9.16	30	
cis-1,3-Dichloropropene	57.0		ug/L	50.0	BLOD	114	47-136	0.891	30	
Dibromochloromethane	58.9		ug/L	50.0	BLOD	118	60-135	0.863	30	
Dibromomethane	46.4		ug/L	50.0	BLOD	92.8	75-125	0.237	30	
Dichlorodifluoromethane	48.4		ug/L	50.0	BLOD	96.8	30-155	2.79	30	
Ethylbenzene	51.0		ug/L	50.0	BLOD	102	75-125	1.63	30	
Hexachlorobutadiene	50.0		ug/L	50.0	BLOD	100	50-140	1.96	30	
Isopropylbenzene	47.3		ug/L	50.0	BLOD	94.6	75-125	2.09	30	
m+p-Xylenes	97.8		ug/L	100	BLOD	97.8	75-130	1.95	30	
Methylene chloride	41.0		ug/L	50.0	BLOD	82.1	55-140	7.86	30	
Methyl-t-butyl ether (MTBE)	46.7	1.00	ug/L		BLOD		65-125	0.601	30	
Naphthalene	44.6		ug/L	50.0	BLOD	89.3	55-140	0.870	30	
n-Butylbenzene	53.3		ug/L	50.0	BLOD	107	70-135	2.43	30	
n-Propylbenzene	48.4		ug/L	50.0	BLOD	96.7	70-130	3.95	30	
o-Xylene	49.9		ug/L	50.0	BLOD	99.9	80-120	0.679	30	
sec-Butylbenzene	52.3		ug/L	50.0	BLOD	105	70-125	3.92	30	
Styrene	51.7		ug/L	50.0	BLOD	103	65-135	0.905	30	
tert-Butylbenzene	50.2		ug/L	50.0	BLOD	100	70-130	2.36	30	

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0526 - SW5030B-MS										
Matrix Spike Dup (BIC0526-MSD1)	**Source: 25C0640-01**			Prepared & Analyzed: 03/11/2025						
Tetrachloroethylene (PCE)	66.1		ug/L	50.0	BLOD	132	51-231	2.11	30	
Toluene	47.0		ug/L	50.0	BLOD	94.1	75-120	3.45	30	
trans-1,2-Dichloroethylene	38.4		ug/L	50.0	BLOD	76.9	60-140	3.39	30	
trans-1,3-Dichloropropene	47.7		ug/L	50.0	BLOD	95.3	55-140	0.864	30	
Trichloroethylene	46.7		ug/L	50.0	BLOD	93.4	70-125	0.449	30	
Trichlorofluoromethane	41.6		ug/L	50.0	BLOD	83.1	60-145	4.72	30	
Vinyl chloride	35.0		ug/L	50.0	BLOD	70.0	50-145	1.39	30	
Surr: 1,2-Dichloroethane-d4 (Surr)	*52.7*		ug/L	*50.0*		*105*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*52.0*		ug/L	*50.0*		*104*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*46.0*		ug/L	*50.0*		*92.0*	*70-130*			
Surr: Toluene-d8 (Surr)	*53.5*		ug/L	*50.0*		*107*	*70-130*			
Batch BIC0606 - SW5030B-MS										
Blank (BIC0606-BLK1)				Prepared & Analyzed: 03/12/2025						
1,1,1,2-Tetrachloroethane	ND	0.40	ug/L							
1,1,1-Trichloroethane	ND	1.00	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.40	ug/L							
1,1,2-Trichloroethane	ND	1.00	ug/L							
1,1-Dichloroethane	ND	1.00	ug/L							
1,1-Dichloroethylene	ND	1.00	ug/L							
1,1-Dichloropropene	ND	1.00	ug/L							
1,2,3-Trichlorobenzene	ND	1.00	ug/L							
1,2,3-Trichloropropane	ND	1.00	ug/L							
1,2,4-Trichlorobenzene	ND	1.00	ug/L							

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Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
Blank (BIC0606-BLK1)				Prepared & Analyzed: 03/12/2025						
1,2,4-Trimethylbenzene	ND	1.00	ug/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.00	ug/L							
1,2-Dibromoethane (EDB)	ND	1.00	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	1.00	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	1.00	ug/L							
1,3-Dichlorobenzene	ND	1.00	ug/L							
1,3-Dichloropropane	ND	1.00	ug/L							
1,4-Dichlorobenzene	ND	1.00	ug/L							
2,2-Dichloropropane	ND	1.00	ug/L							
2-Butanone (MEK)	ND	10.0	ug/L							
2-Chlorotoluene	ND	1.00	ug/L							
2-Hexanone (MBK)	ND	5.00	ug/L							
4-Chlorotoluene	ND	1.00	ug/L							
4-Isopropyltoluene	ND	1.00	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	5.00	ug/L							
Acetone	ND	10.0	ug/L							
Benzene	ND	1.00	ug/L							
Bromobenzene	ND	1.00	ug/L							
Bromochloromethane	ND	1.00	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	1.00	ug/L							
Bromomethane	ND	1.00	ug/L							
Carbon disulfide	ND	10.0	ug/L							

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
Blank (BIC0606-BLK1)				Prepared & Analyzed: 03/12/2025						
Carbon tetrachloride	ND	1.00	ug/L							
Chlorobenzene	ND	1.00	ug/L							
Chloroethane	ND	1.00	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	1.00	ug/L							
cis-1,2-Dichloroethylene	ND	1.00	ug/L							
cis-1,3-Dichloropropene	ND	1.00	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	1.00	ug/L							
Dichlorodifluoromethane	ND	1.00	ug/L							
Di-isopropyl ether (DIPE)	ND	5.00	ug/L							
Ethylbenzene	ND	1.00	ug/L							
Hexachlorobutadiene	ND	0.80	ug/L							
Iodomethane	ND	10.0	ug/L							
Isopropylbenzene	ND	1.00	ug/L							
m+p-Xylenes	ND	2.00	ug/L							
Methylene chloride	ND	4.00	ug/L							
Methyl-t-butyl ether (MTBE)	ND	1.00	ug/L							
Naphthalene	ND	1.00	ug/L							
n-Butylbenzene	ND	1.00	ug/L							
n-Propylbenzene	ND	1.00	ug/L							
o-Xylene	ND	1.00	ug/L							
sec-Butylbenzene	ND	1.00	ug/L							
Styrene	ND	1.00	ug/L							
tert-Butylbenzene	ND	1.00	ug/L							

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
Blank (BIC0606-BLK1)				Prepared & Analyzed: 03/12/2025						
Tetrachloroethylene (PCE)	ND	1.00	ug/L							
Toluene	ND	1.00	ug/L							
trans-1,2-Dichloroethylene	ND	1.00	ug/L							
trans-1,3-Dichloropropene	ND	1.00	ug/L							
Trichloroethylene	ND	1.00	ug/L							
Trichlorofluoromethane	ND	1.00	ug/L							
Vinyl acetate	ND	10.0	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, Total	ND	3.00	ug/L							
Surr: 1,2-Dichloroethane-d4 (Surr)	*48.8*		ug/L	*50.0*		*97.6*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*52.2*		ug/L	*50.0*		*104*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*46.6*		ug/L	*50.0*		*93.2*	*70-130*			
Surr: Toluene-d8 (Surr)	*53.2*		ug/L	*50.0*		*106*	*70-130*			
LCS (BIC0606-BS1)				Prepared & Analyzed: 03/12/2025						
1,1,1,2-Tetrachloroethane	58.0		ug/L	50.0		116	80-130			
1,1,1-Trichloroethane	48.3		ug/L	50.0		96.6	65-130			
1,1,2,2-Tetrachloroethane	62.0		ug/L	50.0		124	65-130			
1,1,2-Trichloroethane	52.3		ug/L	50.0		105	75-125			
1,1-Dichloroethane	48.4		ug/L	50.0		96.9	70-135			
1,1-Dichloroethylene	39.2		ug/L	50.0		78.4	70-130			
1,1-Dichloropropene	49.5		ug/L	50.0		99.0	75-135			
1,2,3-Trichlorobenzene	47.2		ug/L	50.0		94.5	55-140			
1,2,3-Trichloropropane	60.9		ug/L	50.0		122	75-125			
1,2,4-Trichlorobenzene	48.2		ug/L	50.0		96.5	65-135			

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Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
LCS (BIC0606-BS1)				Prepared & Analyzed: 03/12/2025						
1,2,4-Trimethylbenzene	52.3		ug/L	50.0		105	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	49.0		ug/L	50.0		98.0	50-130			
1,2-Dibromoethane (EDB)	51.8		ug/L	50.0		104	80-120			
1,2-Dichlorobenzene	52.3		ug/L	50.0		105	70-120			
1,2-Dichloroethane	45.6		ug/L	50.0		91.2	70-130			
1,2-Dichloropropane	54.1		ug/L	50.0		108	75-125			
1,3,5-Trimethylbenzene	51.7		ug/L	50.0		103	75-125			
1,3-Dichlorobenzene	51.3		ug/L	50.0		103	75-125			
1,3-Dichloropropane	56.6		ug/L	50.0		113	75-125			
1,4-Dichlorobenzene	49.9		ug/L	50.0		99.7	75-125			
2,2-Dichloropropane	51.6		ug/L	50.0		103	70-135			
2-Butanone (MEK)	45.0		ug/L	50.0		90.0	30-150			
2-Chlorotoluene	48.7		ug/L	50.0		97.4	75-125			
2-Hexanone (MBK)	57.6		ug/L	50.0		115	55-130			
4-Chlorotoluene	50.7		ug/L	50.0		101	75-130			
4-Isopropyltoluene	56.3		ug/L	50.0		113	75-130			
4-Methyl-2-pentanone (MIBK)	55.2		ug/L	50.0		110	60-135			
Acetone	43.3		ug/L	50.0		86.6	40-140			
Benzene	50.1		ug/L	50.0		100	80-120			
Bromobenzene	57.8		ug/L	50.0		116	75-125			
Bromochloromethane	44.2		ug/L	50.0		88.4	65-130			
Bromodichloromethane	53.2		ug/L	50.0		106	75-120			
Bromoform	46.5		ug/L	50.0		92.9	70-130			
Bromomethane	51.7		ug/L	50.0		103	30-145			
Carbon disulfide	29.8		ug/L	50.0		59.6	35-160			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
LCS (BIC0606-BS1)				Prepared & Analyzed: 03/12/2025						
Carbon tetrachloride	49.4		ug/L	50.0		98.8	65-140			
Chlorobenzene	51.6		ug/L	50.0		103	80-120			
Chloroethane	44.5		ug/L	50.0		89.0	60-135			
Chloroform	46.0		ug/L	50.0		92.0	65-135			
Chloromethane	51.4		ug/L	50.0		103	40-125			
cis-1,2-Dichloroethylene	46.6		ug/L	50.0		93.3	70-125			
cis-1,3-Dichloropropene	57.5		ug/L	50.0		115	70-130			
Dibromochloromethane	60.8		ug/L	50.0		122	60-135			
Dibromomethane	46.1		ug/L	50.0		92.2	75-125			
Dichlorodifluoromethane	45.4		ug/L	50.0		90.8	30-155			
Ethylbenzene	55.4		ug/L	50.0		111	75-125			
Hexachlorobutadiene	51.5		ug/L	50.0		103	50-140			
Isopropylbenzene	54.1		ug/L	50.0		108	75-125			
m+p-Xylenes	108		ug/L	100		108	75-130			
Methylene chloride	44.0		ug/L	50.0		87.9	55-140			
Methyl-t-butyl ether (MTBE)	48.0	1.00	ug/L				65-125			
Naphthalene	44.9		ug/L	50.0		89.8	55-140			
n-Butylbenzene	57.7		ug/L	50.0		115	70-135			
n-Propylbenzene	51.2		ug/L	50.0		102	70-130			
o-Xylene	56.6		ug/L	50.0		113	80-120			
sec-Butylbenzene	57.3		ug/L	50.0		115	70-125			
Styrene	57.6		ug/L	50.0		115	65-135			
tert-Butylbenzene	52.9		ug/L	50.0		106	70-130			
Tetrachloroethylene (PCE)	71.3		ug/L	50.0		143	45-150			
Toluene	50.3		ug/L	50.0		101	75-120			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
LCS (BIC0606-BS1)				Prepared & Analyzed: 03/12/2025						
trans-1,2-Dichloroethylene	39.4		ug/L	50.0		78.9	60-140			
trans-1,3-Dichloropropene	48.5		ug/L	50.0		97.0	55-140			
Trichloroethylene	48.1		ug/L	50.0		96.1	70-125			
Trichlorofluoromethane	48.2		ug/L	50.0		96.4	60-145			
Vinyl chloride	44.3		ug/L	50.0		88.7	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	*48.3*		ug/L	*50.0*		*96.5*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*56.6*		ug/L	*50.0*		*113*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*47.2*		ug/L	*50.0*		*94.4*	*70-130*			
Surr: Toluene-d8 (Surr)	*52.9*		ug/L	*50.0*		*106*	*70-130*			
Matrix Spike (BIC0606-MS1)	**Source: 25C0669-01**			Prepared & Analyzed: 03/12/2025						
1,1,1,2-Tetrachloroethane	54.9		ug/L	50.0	BLOD	110	80-130			
1,1,1-Trichloroethane	46.9		ug/L	50.0	BLOD	93.7	65-130			
1,1,2,2-Tetrachloroethane	59.8		ug/L	50.0	BLOD	120	65-130			
1,1,2-Trichloroethane	52.5		ug/L	50.0	BLOD	105	75-125			
1,1-Dichloroethane	45.9		ug/L	50.0	BLOD	91.9	70-135			
1,1-Dichloroethylene	36.8		ug/L	50.0	BLOD	73.6	50-145			
1,1-Dichloropropene	47.2		ug/L	50.0	BLOD	94.5	75-135			
1,2,3-Trichlorobenzene	45.6		ug/L	50.0	BLOD	91.3	55-140			
1,2,3-Trichloropropane	57.8		ug/L	50.0	BLOD	116	75-125			
1,2,4-Trichlorobenzene	46.6		ug/L	50.0	BLOD	93.1	65-135			
1,2,4-Trimethylbenzene	50.2		ug/L	50.0	BLOD	100	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	46.5		ug/L	50.0	BLOD	93.0	50-130			
1,2-Dibromoethane (EDB)	49.7		ug/L	50.0	BLOD	99.5	80-120			
1,2-Dichlorobenzene	50.6		ug/L	50.0	BLOD	101	70-120			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
Matrix Spike (BIC0606-MS1)	**Source: 25C0669-01**			Prepared & Analyzed: 03/12/2025						
1,2-Dichloroethane	44.5		ug/L	50.0	BLOD	89.0	70-130			
1,2-Dichloropropane	53.5		ug/L	50.0	BLOD	107	75-125			
1,3,5-Trimethylbenzene	49.0		ug/L	50.0	BLOD	98.0	75-124			
1,3-Dichlorobenzene	50.0		ug/L	50.0	BLOD	100	75-125			
1,3-Dichloropropane	54.9		ug/L	50.0	BLOD	110	75-125			
1,4-Dichlorobenzene	48.5		ug/L	50.0	BLOD	97.0	75-125			
2,2-Dichloropropane	50.2		ug/L	50.0	BLOD	100	70-135			
2-Butanone (MEK)	45.6		ug/L	50.0	BLOD	91.1	30-150			
2-Chlorotoluene	47.7		ug/L	50.0	BLOD	95.3	75-125			
2-Hexanone (MBK)	55.9		ug/L	50.0	BLOD	112	55-130			
4-Chlorotoluene	47.2		ug/L	50.0	BLOD	94.3	75-130			
4-Isopropyltoluene	54.2		ug/L	50.0	BLOD	108	75-130			
4-Methyl-2-pentanone (MIBK)	55.0		ug/L	50.0	BLOD	110	60-135			
Acetone	45.6		ug/L	50.0	11.6	68.1	40-140			
Benzene	49.1		ug/L	50.0	BLOD	98.3	80-120			
Bromobenzene	55.2		ug/L	50.0	BLOD	110	75-125			
Bromochloromethane	44.1		ug/L	50.0	BLOD	88.2	65-130			
Bromodichloromethane	51.8		ug/L	50.0	BLOD	104	75-136			
Bromoform	45.7		ug/L	50.0	BLOD	91.3	70-130			
Bromomethane	49.7		ug/L	50.0	BLOD	99.4	30-145			
Carbon disulfide	32.8		ug/L	50.0	BLOD	65.2	35-160			
Carbon tetrachloride	47.2		ug/L	50.0	BLOD	94.4	65-140			
Chlorobenzene	49.2		ug/L	50.0	BLOD	98.4	80-120			
Chloroethane	44.7		ug/L	50.0	BLOD	89.3	60-135			
Chloroform	44.6		ug/L	50.0	BLOD	89.2	65-135			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
Matrix Spike (BIC0606-MS1)	**Source: 25C0669-01**			Prepared & Analyzed: 03/12/2025						
Chloromethane	49.7		ug/L	50.0	BLOD	99.4	40-125			
cis-1,2-Dichloroethylene	45.1		ug/L	50.0	BLOD	90.3	70-125			
cis-1,3-Dichloropropene	56.7		ug/L	50.0	BLOD	113	47-136			
Dibromochloromethane	59.6		ug/L	50.0	BLOD	119	60-135			
Dibromomethane	44.7		ug/L	50.0	BLOD	89.5	75-125			
Dichlorodifluoromethane	49.5		ug/L	50.0	BLOD	99.0	30-155			
Ethylbenzene	53.2		ug/L	50.0	BLOD	106	75-125			
Hexachlorobutadiene	49.0		ug/L	50.0	BLOD	98.0	50-140			
Isopropylbenzene	51.3		ug/L	50.0	BLOD	103	75-125			
m+p-Xylenes	104		ug/L	100	BLOD	104	75-130			
Methylene chloride	41.8		ug/L	50.0	BLOD	83.6	55-140			
Methyl-t-butyl ether (MTBE)	46.8	1.00	ug/L		BLOD		65-125			
Naphthalene	43.5		ug/L	50.0	BLOD	86.9	55-140			
n-Butylbenzene	54.1		ug/L	50.0	BLOD	108	70-135			
n-Propylbenzene	48.3		ug/L	50.0	BLOD	96.5	70-130			
o-Xylene	53.8		ug/L	50.0	BLOD	108	80-120			
sec-Butylbenzene	54.6		ug/L	50.0	BLOD	109	70-125			
Styrene	55.3		ug/L	50.0	BLOD	111	65-135			
tert-Butylbenzene	50.5		ug/L	50.0	BLOD	101	70-130			
Tetrachloroethylene (PCE)	68.0		ug/L	50.0	BLOD	136	51-231			
Toluene	48.9		ug/L	50.0	BLOD	97.2	75-120			
trans-1,2-Dichloroethylene	38.3		ug/L	50.0	BLOD	76.5	60-140			
trans-1,3-Dichloropropene	47.2		ug/L	50.0	BLOD	94.4	55-140			
Trichloroethylene	46.6		ug/L	50.0	BLOD	93.3	70-125			
Trichlorofluoromethane	45.3		ug/L	50.0	BLOD	90.6	60-145			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
Matrix Spike (BIC0606-MS1)	**Source: 25C0669-01**			Prepared & Analyzed: 03/12/2025						
Vinyl chloride	38.2		ug/L	50.0	BLOD	76.5	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	*50.3*		ug/L	*50.0*		*101*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*55.4*		ug/L	*50.0*		*111*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*48.2*		ug/L	*50.0*		*96.3*	*70-130*			
Surr: Toluene-d8 (Surr)	*54.3*		ug/L	*50.0*		*109*	*70-130*			
Matrix Spike Dup (BIC0606-MSD1)	**Source: 25C0669-01**			Prepared & Analyzed: 03/12/2025						
1,1,1,2-Tetrachloroethane	55.0		ug/L	50.0	BLOD	110	80-130	0.109	30	
1,1,1-Trichloroethane	46.1		ug/L	50.0	BLOD	92.2	65-130	1.68	30	
1,1,2,2-Tetrachloroethane	59.0		ug/L	50.0	BLOD	118	65-130	1.43	30	
1,1,2-Trichloroethane	52.1		ug/L	50.0	BLOD	104	75-125	0.765	30	
1,1-Dichloroethane	45.7		ug/L	50.0	BLOD	91.4	70-135	0.546	30	
1,1-Dichloroethylene	36.3		ug/L	50.0	BLOD	72.6	50-145	1.31	30	
1,1-Dichloropropene	46.9		ug/L	50.0	BLOD	93.8	75-135	0.701	30	
1,2,3-Trichlorobenzene	46.4		ug/L	50.0	BLOD	92.9	55-140	1.76	30	
1,2,3-Trichloropropane	56.6		ug/L	50.0	BLOD	113	75-125	2.10	30	
1,2,4-Trichlorobenzene	47.0		ug/L	50.0	BLOD	94.0	65-135	0.962	30	
1,2,4-Trimethylbenzene	50.0		ug/L	50.0	BLOD	99.9	75-130	0.559	30	
1,2-Dibromo-3-chloropropane (DBCP)	48.0		ug/L	50.0	BLOD	95.9	50-130	3.11	30	
1,2-Dibromoethane (EDB)	49.3		ug/L	50.0	BLOD	98.7	80-120	0.828	30	
1,2-Dichlorobenzene	50.1		ug/L	50.0	BLOD	100	70-120	0.954	30	
1,2-Dichloroethane	43.2		ug/L	50.0	BLOD	86.5	70-130	2.85	30	
1,2-Dichloropropane	53.8		ug/L	50.0	BLOD	108	75-125	0.429	30	
1,3,5-Trimethylbenzene	49.4		ug/L	50.0	BLOD	98.9	75-124	0.894	30	
1,3-Dichlorobenzene	49.9		ug/L	50.0	BLOD	99.9	75-125	0.120	30	

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
Matrix Spike Dup (BIC0606-MSD1)	**Source: 25C0669-01**			Prepared & Analyzed: 03/12/2025						
1,3-Dichloropropane	55.5		ug/L	50.0	BLOD	111	75-125	1.11	30	
1,4-Dichlorobenzene	48.4		ug/L	50.0	BLOD	96.8	75-125	0.206	30	
2,2-Dichloropropane	49.2		ug/L	50.0	BLOD	98.5	70-135	1.87	30	
2-Butanone (MEK)	44.6		ug/L	50.0	BLOD	89.1	30-150	2.22	30	
2-Chlorotoluene	47.0		ug/L	50.0	BLOD	94.1	75-125	1.31	30	
2-Hexanone (MBK)	61.2		ug/L	50.0	BLOD	122	55-130	9.02	30	
4-Chlorotoluene	47.6		ug/L	50.0	BLOD	95.2	75-130	0.929	30	
4-Isopropyltoluene	53.7		ug/L	50.0	BLOD	107	75-130	1.02	30	
4-Methyl-2-pentanone (MIBK)	59.9		ug/L	50.0	BLOD	120	60-135	8.55	30	
Acetone	50.5		ug/L	50.0	11.6	77.7	40-140	10.1	30	
Benzene	49.0		ug/L	50.0	BLOD	98.0	80-120	0.285	30	
Bromobenzene	54.0		ug/L	50.0	BLOD	108	75-125	2.12	30	
Bromochloromethane	43.1		ug/L	50.0	BLOD	86.2	65-130	2.29	30	
Bromodichloromethane	50.9		ug/L	50.0	BLOD	102	75-136	1.60	30	
Bromoform	44.3		ug/L	50.0	BLOD	88.6	70-130	3.05	30	
Bromomethane	47.7		ug/L	50.0	BLOD	95.4	30-145	4.11	30	
Carbon disulfide	36.5		ug/L	50.0	BLOD	72.6	35-160	10.7	30	
Carbon tetrachloride	45.9		ug/L	50.0	BLOD	91.7	65-140	2.84	30	
Chlorobenzene	49.0		ug/L	50.0	BLOD	98.1	80-120	0.346	30	
Chloroethane	43.4		ug/L	50.0	BLOD	86.9	60-135	2.75	30	
Chloroform	44.3		ug/L	50.0	BLOD	88.6	65-135	0.675	30	
Chloromethane	46.3		ug/L	50.0	BLOD	92.6	40-125	7.04	30	
cis-1,2-Dichloroethylene	44.8		ug/L	50.0	BLOD	89.7	70-125	0.645	30	
cis-1,3-Dichloropropene	56.1		ug/L	50.0	BLOD	112	47-136	0.922	30	
Dibromochloromethane	58.9		ug/L	50.0	BLOD	118	60-135	1.10	30	

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
Matrix Spike Dup (BIC0606-MSD1)	**Source: 25C0669-01**			Prepared & Analyzed: 03/12/2025						
Dibromomethane	45.4		ug/L	50.0	BLOD	90.8	75-125	1.42	30	
Dichlorodifluoromethane	39.7		ug/L	50.0	BLOD	79.4	30-155	21.9	30	
Ethylbenzene	52.8		ug/L	50.0	BLOD	106	75-125	0.661	30	
Hexachlorobutadiene	49.3		ug/L	50.0	BLOD	98.6	50-140	0.611	30	
Isopropylbenzene	50.6		ug/L	50.0	BLOD	101	75-125	1.31	30	
m+p-Xylenes	102		ug/L	100	BLOD	102	75-130	1.49	30	
Methylene chloride	40.9		ug/L	50.0	BLOD	81.8	55-140	2.27	30	
Methyl-t-butyl ether (MTBE)	45.9	1.00	ug/L		BLOD		65-125	1.79	30	
Naphthalene	43.6		ug/L	50.0	BLOD	87.2	55-140	0.367	30	
n-Butylbenzene	55.0		ug/L	50.0	BLOD	110	70-135	1.72	30	
n-Propylbenzene	48.0		ug/L	50.0	BLOD	96.1	70-130	0.457	30	
o-Xylene	53.0		ug/L	50.0	BLOD	106	80-120	1.50	30	
sec-Butylbenzene	54.3		ug/L	50.0	BLOD	109	70-125	0.478	30	
Styrene	53.7		ug/L	50.0	BLOD	107	65-135	2.86	30	
tert-Butylbenzene	50.5		ug/L	50.0	BLOD	101	70-130	0.0792	30	
Tetrachloroethylene (PCE)	68.0		ug/L	50.0	BLOD	136	51-231	0.0147	30	
Toluene	49.0		ug/L	50.0	BLOD	97.4	75-120	0.184	30	
trans-1,2-Dichloroethylene	37.5		ug/L	50.0	BLOD	75.0	60-140	1.98	30	
trans-1,3-Dichloropropene	46.2		ug/L	50.0	BLOD	92.3	55-140	2.21	30	
Trichloroethylene	46.5		ug/L	50.0	BLOD	93.0	70-125	0.258	30	
Trichlorofluoromethane	44.5		ug/L	50.0	BLOD	89.0	60-145	1.85	30	
Vinyl chloride	35.2		ug/L	50.0	BLOD	70.4	50-145	8.28	30	
Surr: 1,2-Dichloroethane-d4 (Surr)	*48.8*		ug/L	*50.0*		*97.7*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*54.6*		ug/L	*50.0*		*109*	*75-120*			

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Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0606 - SW5030B-MS										
Matrix Spike Dup (BIC0606-MSD1)	**Source: 25C0669-01**			Prepared & Analyzed: 03/12/2025						
Surr: Dibromofluoromethane (Surr)	*47.0*		ug/L	*50.0*		*94.0*	*70-130*			
Surr: Toluene-d8 (Surr)	*53.8*		ug/L	*50.0*		*108*	*70-130*			

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
Blank (BIC0513-BLK1)				Prepared: 03/11/2025 Analyzed: 03/12/2025						
1,2,4,5-Tetrachlorobenzene	ND	10.0	ug/L							
1,2,4-Trichlorobenzene	ND	10.0	ug/L							
1,2-Dichlorobenzene	ND	10.0	ug/L							
1,2-Diphenylhydrazine	ND	10.0	ug/L							
1,3-Dichlorobenzene	ND	10.0	ug/L							
1,3-Dinitrobenzene	ND	2.50	ug/L							
1,4-Dichlorobenzene	ND	10.0	ug/L							
1-Naphthylamine	ND	10.0	ug/L							
2,3,4,6-Tetrachlorophenol	ND	10.0	ug/L							
2,4,5-Trichlorophenol	ND	10.0	ug/L							
2,4,6-Trichlorophenol	ND	10.0	ug/L							
2,4-Dichlorophenol	ND	10.0	ug/L							
2,4-Dimethylphenol	ND	5.00	ug/L							
2,4-Dinitrophenol	ND	50.0	ug/L							
2,4-Dinitrotoluene	ND	10.0	ug/L							
2,6-Dichlorophenol	ND	10.0	ug/L							
2,6-Dinitrotoluene	ND	10.0	ug/L							
2-Chloronaphthalene	ND	10.0	ug/L							
2-Chlorophenol	ND	10.0	ug/L							
2-Methylnaphthalene	ND	10.0	ug/L							
2-Naphthylamine	ND	10.0	ug/L							
2-Nitroaniline	ND	20.0	ug/L							
2-Nitrophenol	ND	10.0	ug/L							
3,3'-Dichlorobenzidine	ND	10.0	ug/L							
3-Methylcholanthrene	ND	10.0	ug/L							

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
Blank (BIC0513-BLK1)				Prepared: 03/11/2025 Analyzed: 03/12/2025						
3-Nitroaniline	ND	20.0	ug/L							
4,6-Dinitro-2-methylphenol	ND	50.0	ug/L							
4-Aminobiphenyl	ND	10.0	ug/L							
4-Bromophenyl phenyl ether	ND	10.0	ug/L							
4-Chloroaniline	ND	10.0	ug/L							
4-Chlorophenyl phenyl ether	ND	10.0	ug/L							
4-Nitroaniline	ND	20.0	ug/L							
4-Nitrophenol	ND	50.0	ug/L							
7,12-Dimethylbenz (a) anthracene	ND	10.0	ug/L							
Acenaphthene	ND	10.0	ug/L							
Acenaphthylene	ND	10.0	ug/L							
Acetophenone	ND	20.0	ug/L							
Aniline	ND	50.0	ug/L							
Anthracene	ND	10.0	ug/L							
Benzidine	ND	50.0	ug/L							
Benzo (a) anthracene	ND	10.0	ug/L							
Benzo (a) pyrene	ND	10.0	ug/L							
Benzo (b) fluoranthene	ND	10.0	ug/L							
Benzo (g,h,i) perylene	ND	10.0	ug/L							
Benzo (k) fluoranthene	ND	10.0	ug/L							
Benzoic acid	ND	50.0	ug/L							
Benzyl alcohol	ND	20.0	ug/L							
bis (2-Chloroethoxy) methane	ND	10.0	ug/L							
bis (2-Chloroethyl) ether	ND	10.0	ug/L							
2,2'-Oxybis (1-chloropropane)	ND	10.0	ug/L							

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
Blank (BIC0513-BLK1)				Prepared: 03/11/2025 Analyzed: 03/12/2025						
bis (2-Ethylhexyl) phthalate	ND	10.0	ug/L							
Butyl benzyl phthalate	ND	10.0	ug/L							
Chrysene	ND	10.0	ug/L							
Dibenz (a,h) anthracene	ND	10.0	ug/L							
Dibenz (a,j) acridine	ND	10.0	ug/L							
Dibenzofuran	ND	5.00	ug/L							
Diethyl phthalate	ND	10.0	ug/L							
Dimethyl phthalate	ND	10.0	ug/L							
Di-n-butyl phthalate	ND	10.0	ug/L							
Di-n-octyl phthalate	ND	10.0	ug/L							
Diphenylamine	ND	10.0	ug/L							
Ethyl methanesulfonate	ND	20.0	ug/L							
Fluoranthene	ND	10.0	ug/L							
Fluorene	ND	10.0	ug/L							
Hexachlorobenzene	ND	1.00	ug/L							
Hexachlorobutadiene	ND	10.0	ug/L							
Hexachlorocyclopentadiene	ND	10.0	ug/L							
Hexachloroethane	ND	10.0	ug/L							
Indeno (1,2,3-cd) pyrene	ND	10.0	ug/L							
Isophorone	ND	10.0	ug/L							
m+p-Cresols	ND	10.0	ug/L							
Methyl methanesulfonate	ND	10.0	ug/L							
Naphthalene	ND	5.00	ug/L							
Nitrobenzene	ND	10.0	ug/L							
n-Nitrosodimethylamine	ND	10.0	ug/L							

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Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
Blank (BIC0513-BLK1)				Prepared: 03/11/2025 Analyzed: 03/12/2025						
n-Nitrosodi-n-butylamine	ND	10.0	ug/L							
n-Nitrosodi-n-propylamine	ND	10.0	ug/L							
n-Nitrosodiphenylamine	ND	10.0	ug/L							
n-Nitrosopiperidine	ND	10.0	ug/L							
o+m+p-Cresols	ND	10.0	ug/L							
o-Cresol	ND	10.0	ug/L							
p-(Dimethylamino) azobenzene	ND	2.50	ug/L							
p-Chloro-m-cresol	ND	10.0	ug/L							
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L							
Pentachlorophenol	ND	20.0	ug/L							
Phenacetin	ND	10.0	ug/L							
Phenanthrene	ND	10.0	ug/L							
Phenol	ND	10.0	ug/L							
Pronamide	ND	10.0	ug/L							
Pyrene	ND	10.0	ug/L							
Pyridine	ND	10.0	ug/L							
Surr: 2,4,6-Tribromophenol (Surr)	*54.3*		ug/L	*100*		*54.3*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*20.5*		ug/L	*50.0*		*41.1*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*19.4*		ug/L	*100*		*19.4*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*20.1*		ug/L	*50.0*		*40.3*	*5-151*			
Surr: Phenol-d5 (Surr)	*19.4*		ug/L	*100*		*19.4*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*25.8*		ug/L	*50.0*		*51.6*	*5-141*			
LCS (BIC0513-BS1)				Prepared: 03/11/2025 Analyzed: 03/12/2025						
1,2,4-Trichlorobenzene	21.6	10.0	ug/L	50.0		43.3	57-130			*L*

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Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
LCS (BIC0513-BS1)				Prepared: 03/11/2025 Analyzed: 03/12/2025						
1,2-Dichlorobenzene	27.6	10.0	ug/L	50.0		55.1	22-115			
1,3-Dichlorobenzene	27.0	10.0	ug/L	50.0		53.9	22-112			
1,4-Dichlorobenzene	27.2	10.0	ug/L	50.0		54.3	13-112			
2,4,6-Trichlorophenol	24.4	10.0	ug/L	50.0		48.8	52-129			*L*
2,4-Dichlorophenol	25.1	10.0	ug/L	50.0		50.1	53-122			*L*
2,4-Dimethylphenol	30.0	5.00	ug/L	50.0		60.0	42-120			
2,4-Dinitrophenol	22.3	50.0	ug/L	50.0		44.7	48-127			*J, L*
2,4-Dinitrotoluene	32.2	10.0	ug/L	50.0		64.3	10-173			
2,6-Dinitrotoluene	29.7	10.0	ug/L	50.0		59.5	68-137			*L*
2-Chloronaphthalene	29.8	10.0	ug/L	50.0		59.6	65-120			*L*
2-Chlorophenol	30.7	10.0	ug/L	50.0		61.3	36-120			
2-Nitrophenol	32.2	10.0	ug/L	50.0		64.3	45-167			
3,3'-Dichlorobenzidine	35.5	10.0	ug/L	50.0		70.9	10-213			
4,6-Dinitro-2-methylphenol	30.5	50.0	ug/L	50.0		61.0	53-130			
4-Bromophenyl phenyl ether	29.2	10.0	ug/L	50.0		58.5	65-120			*L*
4-Chlorophenyl phenyl ether	26.0	10.0	ug/L	50.0		51.9	38-145			
4-Nitrophenol	10.7	50.0	ug/L	50.0		21.4	13-129			
Acenaphthene	33.7	10.0	ug/L	50.0		67.4	60-132			
Acenaphthylene	34.2	10.0	ug/L	50.0		68.5	54-126			
Acetophenone	26.8	20.0	ug/L	50.0		53.6	0-200			
alpha-Terpineol	29.2	2.50	ug/L	50.0		58.4	0-200			
Anthracene	31.1	10.0	ug/L	50.0		62.2	43-120			
Benzo (a) anthracene	31.6	10.0	ug/L	50.0		63.1	42-133			
Benzo (a) pyrene	33.3	10.0	ug/L	50.0		66.7	32-148			
Benzo (b) fluoranthene	31.3	10.0	ug/L	50.0		62.5	42-140			

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
LCS (BIC0513-BS1)				Prepared: 03/11/2025 Analyzed: 03/12/2025						
Benzo (g,h,i) perylene	40.3	10.0	ug/L	50.0		80.6	10-195			
Benzo (k) fluoranthene	30.7	10.0	ug/L	50.0		61.3	25-146			
bis (2-Chloroethoxy) methane	28.3	10.0	ug/L	50.0		56.6	49-165			
bis (2-Chloroethyl) ether	30.1	10.0	ug/L	50.0		60.1	43-126			
2,2'-Oxybis (1-chloropropane)	29.4	10.0	ug/L	50.0		58.9	63-139			*L*
bis (2-Ethylhexyl) phthalate	40.7	10.0	ug/L	50.0		81.3	29-137			
Butyl benzyl phthalate	43.7	10.0	ug/L	50.0		87.5	10-140			
Chrysene	33.4	10.0	ug/L	50.0		66.9	44-140			
Dibenz (a,h) anthracene	41.1	10.0	ug/L	50.0		82.3	10-200			
Diethyl phthalate	34.4	10.0	ug/L	50.0		68.9	10-120			
Dimethyl phthalate	30.3	10.0	ug/L	50.0		60.6	10-120			
Di-n-butyl phthalate	41.8	10.0	ug/L	50.0		83.7	10-120			
Di-n-octyl phthalate	41.9	10.0	ug/L	50.0		83.8	19-132			
Fluoranthene	33.0	10.0	ug/L	50.0		65.9	43-121			
Fluorene	30.7	10.0	ug/L	50.0		61.4	70-120			*L*
Hexachlorobenzene	32.0	1.00	ug/L	50.0		64.1	10-142			
Hexachlorobutadiene	20.3	10.0	ug/L	50.0		40.6	38-120			
Hexachlorocyclopentadiene	5.86	10.0	ug/L	50.0		11.7	10-76			
Hexachloroethane	27.7	10.0	ug/L	50.0		55.3	55-120			
Indeno (1,2,3-cd) pyrene	37.0	10.0	ug/L	50.0		73.9	10-151			
Isophorone	19.3	10.0	ug/L	50.0		38.7	47-180			*L*
Naphthalene	30.1	5.00	ug/L	50.0		60.1	36-120			
Nitrobenzene	26.4	10.0	ug/L	50.0		52.8	54-158			*L*
n-Nitrosodimethylamine	13.4	10.0	ug/L	50.0		26.9	10-85			
n-Nitrosodi-n-propylamine	26.6	10.0	ug/L	50.0		53.2	14-198			

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Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
LCS (BIC0513-BS1)				Prepared: 03/11/2025 Analyzed: 03/12/2025						
n-Nitrosodiphenylamine	24.6	10.0	ug/L	50.0		49.2	12-97			
p-Chloro-m-cresol	29.4	10.0	ug/L	50.0		58.9	10-142			
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L				0-200			
Pentachlorophenol	15.8	20.0	ug/L	50.0		31.6	38-152			*J, L*
Phenanthrene	33.4	10.0	ug/L	50.0		66.7	65-120			
Phenol	11.5	10.0	ug/L	50.5		22.7	17-120			
Pyrene	30.3	10.0	ug/L	50.0		60.6	70-120			*L*
Pyridine	18.1	10.0	ug/L	50.0		36.3	10-103			
Surr: 2,4,6-Tribromophenol (Surr)	*67.4*		ug/L	*100*		*67.4*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*27.7*		ug/L	*50.0*		*55.3*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*35.1*		ug/L	*100*		*35.1*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*26.3*		ug/L	*50.0*		*52.7*	*5-151*			
Surr: Phenol-d5 (Surr)	*24.8*		ug/L	*100*		*24.8*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*30.8*		ug/L	*50.0*		*61.7*	*5-141*			
Matrix Spike (BIC0513-MS1)	**Source: 25C0376-03**			Prepared: 03/11/2025 Analyzed: 03/12/2025						
1,2,4-Trichlorobenzene	19.1	10.0	ug/L	100	BLOD	19.1	44-142			*M*
1,2-Dichlorobenzene	25.0	10.0	ug/L	100	BLOD	25.0	22-115			
1,3-Dichlorobenzene	24.1	10.0	ug/L	100	BLOD	24.1	22-112			
1,4-Dichlorobenzene	25.8	10.0	ug/L	100	BLOD	25.8	13-112			
2,4,6-Trichlorophenol	20.7	10.0	ug/L	100	BLOD	20.7	37-144			*M*
2,4-Dichlorophenol	21.4	10.0	ug/L	100	BLOD	21.4	39-135			*M*
2,4-Dimethylphenol	24.8	5.00	ug/L	100	BLOD	24.8	32-120			*M*
2,4-Dinitrophenol	22.3	50.0	ug/L	100	BLOD	22.3	39-139			*J, M*
2,4-Dinitrotoluene	25.2	10.0	ug/L	100	BLOD	25.2	10-191			

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
Matrix Spike (BIC0513-MS1)	**Source: 25C0376-03**			Prepared: 03/11/2025 Analyzed: 03/12/2025						
2,6-Dinitrotoluene	23.9	10.0	ug/L	100	BLOD	23.9	50-158			*M*
2-Chloronaphthalene	24.2	10.0	ug/L	100	BLOD	24.2	60-120			*M*
2-Chlorophenol	27.0	10.0	ug/L	100	BLOD	27.0	23-134			
2-Nitrophenol	28.5	10.0	ug/L	100	BLOD	28.5	29-182			*M*
3,3'-Dichlorobenzidine	26.8	10.0	ug/L	100	BLOD	26.8	10-262			
4,6-Dinitro-2-methylphenol	25.0	50.0	ug/L	100	BLOD	25.0	10-181			
4-Bromophenyl phenyl ether	23.6	10.0	ug/L	100	BLOD	23.6	53-127			*M*
4-Chlorophenyl phenyl ether	20.7	10.0	ug/L	100	BLOD	20.7	25-158			*M*
4-Nitrophenol	4.14	50.0	ug/L	100	BLOD	4.14	10-132			*J, M*
Acenaphthene	27.2	10.0	ug/L	100	BLOD	27.2	47-145			*M*
Acenaphthylene	27.9	10.0	ug/L	100	BLOD	27.9	33-145			*M*
Acetophenone	23.6	20.0	ug/L	100	BLOD	23.6	0-200			
alpha-Terpineol	24.7	2.50	ug/L	100	BLOD	24.7	0-200			
Anthracene	25.0	10.0	ug/L	100	BLOD	25.0	27-133			*M*
Benzo (a) anthracene	25.0	10.0	ug/L	100	BLOD	25.0	33-143			*M*
Benzo (a) pyrene	26.5	10.0	ug/L	100	BLOD	26.5	17-163			
Benzo (b) fluoranthene	26.7	10.0	ug/L	100	BLOD	26.7	24-159			
Benzo (g,h,i) perylene	29.2	10.0	ug/L	100	BLOD	29.2	10-219			
Benzo (k) fluoranthene	22.4	10.0	ug/L	100	BLOD	22.4	11-162			
bis (2-Chloroethoxy) methane	23.9	10.0	ug/L	100	BLOD	23.9	33-184			*M*
bis (2-Chloroethyl) ether	26.6	10.0	ug/L	100	BLOD	26.6	12-158			
2,2'-Oxybis (1-chloropropane)	25.5	10.0	ug/L	100	BLOD	25.5	36-166			*M*
bis (2-Ethylhexyl) phthalate	29.8	10.0	ug/L	100	BLOD	29.8	10-158			
Butyl benzyl phthalate	33.9	10.0	ug/L	100	BLOD	33.9	10-152			
Chrysene	26.5	10.0	ug/L	100	BLOD	26.5	17-169			

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Certificate of Analysis

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

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
Matrix Spike (BIC0513-MS1)	**Source: 25C0376-03**			Prepared: 03/11/2025 Analyzed: 03/12/2025						
Dibenz (a,h) anthracene	30.0	10.0	ug/L	100	BLOD	30.0	10-227			
Diethyl phthalate	27.4	10.0	ug/L	100	BLOD	27.4	10-120			
Dimethyl phthalate	23.8	10.0	ug/L	100	BLOD	23.8	10-120			
Di-n-butyl phthalate	33.1	10.0	ug/L	100	BLOD	33.1	10-120			
Di-n-octyl phthalate	31.5	10.0	ug/L	100	BLOD	31.5	10-146			
Fluoranthene	25.9	10.0	ug/L	100	BLOD	25.9	26-137			*M*
Fluorene	24.3	10.0	ug/L	100	BLOD	24.3	59-121			*M*
Hexachlorobenzene	25.7	1.00	ug/L	100	BLOD	25.7	10-152			
Hexachlorobutadiene	17.4	10.0	ug/L	100	BLOD	17.4	24-120			*M*
Hexachlorocyclopentadiene	4.48	10.0	ug/L	100	BLOD	4.48	10-90			*J, M*
Hexachloroethane	24.4	10.0	ug/L	100	BLOD	24.4	40-120			*M*
Indeno (1,2,3-cd) pyrene	27.4	10.0	ug/L	100	BLOD	27.4	10-171			
Isophorone	16.4	10.0	ug/L	100	BLOD	16.4	21-196			*M*
Naphthalene	26.5	5.00	ug/L	100	BLOD	26.5	21-133			
Nitrobenzene	23.2	10.0	ug/L	100	BLOD	23.2	35-180			*M*
n-Nitrosodimethylamine	12.6	10.0	ug/L	100	BLOD	12.6	10-85			
n-Nitrosodi-n-propylamine	23.4	10.0	ug/L	100	BLOD	23.4	10-230			
n-Nitrosodiphenylamine	19.4	10.0	ug/L	100	BLOD	19.4	12-111			
p-Chloro-m-cresol	25.6	10.0	ug/L	100	BLOD	25.6	10-127			
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L		BLOD		0-200			
Pentachlorophenol	15.4	20.0	ug/L	100	BLOD	15.4	14-176			
Phenanthrene	26.9	10.0	ug/L	100	BLOD	26.9	54-120			*M*
Phenol	11.5	10.0	ug/L	101	2.59	8.84	10-120			*M*
Pyrene	22.6	10.0	ug/L	100	BLOD	22.6	52-120			*M*
Pyridine	17.0	10.0	ug/L	100	BLOD	17.0	10-110			

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
Matrix Spike (BIC0513-MS1)	**Source: 25C0376-03**			Prepared: 03/11/2025 Analyzed: 03/12/2025						
Surr: 2,4,6-Tribromophenol (Surr)	*55.1*		ug/L	*200*		*27.6*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*22.6*		ug/L	*100*		*22.6*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*23.5*		ug/L	*200*		*11.7*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*23.2*		ug/L	*100*		*23.2*	*5-151*			
Surr: Phenol-d5 (Surr)	*21.1*		ug/L	*200*		*10.5*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*22.5*		ug/L	*100*		*22.5*	*5-141*			
Matrix Spike Dup (BIC0513-MSD1)	**Source: 25C0376-03**			Prepared: 03/11/2025 Analyzed: 03/12/2025						
1,2,4-Trichlorobenzene	16.3	10.0	ug/L	100	BLOD	16.3	44-142	15.9	20	*M*
1,2-Dichlorobenzene	23.1	10.0	ug/L	100	BLOD	23.1	22-115	8.02	20	
1,3-Dichlorobenzene	20.3	10.0	ug/L	100	BLOD	20.3	22-112	16.9	20	*M*
1,4-Dichlorobenzene	21.5	10.0	ug/L	100	BLOD	21.5	13-112	18.1	20	
2,4,6-Trichlorophenol	20.9	10.0	ug/L	100	BLOD	20.9	37-144	0.818	20	*M*
2,4-Dichlorophenol	19.4	10.0	ug/L	100	BLOD	19.4	39-135	9.59	20	*M*
2,4-Dimethylphenol	22.0	5.00	ug/L	100	BLOD	22.0	32-120	12.0	20	*M*
2,4-Dinitrophenol	28.3	50.0	ug/L	100	BLOD	28.3	39-139	23.6	20	*J, M, P*
2,4-Dinitrotoluene	30.9	10.0	ug/L	100	BLOD	30.9	10-191	20.4	20	*P*
2,6-Dinitrotoluene	26.2	10.0	ug/L	100	BLOD	26.2	50-158	8.82	20	*M*
2-Chloronaphthalene	22.1	10.0	ug/L	100	BLOD	22.1	60-120	9.24	20	*M*
2-Chlorophenol	23.0	10.0	ug/L	100	BLOD	23.0	23-134	16.0	20	*M*
2-Nitrophenol	24.7	10.0	ug/L	100	BLOD	24.7	29-182	14.2	20	*M*
3,3'-Dichlorobenzidine	35.2	10.0	ug/L	100	BLOD	35.2	10-262	27.2	20	*P*
4,6-Dinitro-2-methylphenol	34.2	50.0	ug/L	100	BLOD	34.2	10-181	30.9	20	*J, P*
4-Bromophenyl phenyl ether	28.1	10.0	ug/L	100	BLOD	28.1	53-127	17.2	20	*M*
4-Chlorophenyl phenyl ether	22.4	10.0	ug/L	100	BLOD	22.4	25-158	7.71	20	*M*

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
Matrix Spike Dup (BIC0513-MSD1)	**Source: 25C0376-03**			Prepared: 03/11/2025 Analyzed: 03/12/2025						
4-Nitrophenol	4.23	50.0	ug/L	100	BLOD	4.23	10-132	2.15	20	*J, M*
Acenaphthene	26.6	10.0	ug/L	100	BLOD	26.6	47-145	2.34	20	*M*
Acenaphthylene	27.0	10.0	ug/L	100	BLOD	27.0	33-145	3.13	20	*M*
Acetophenone	21.1	20.0	ug/L	100	BLOD	21.1	0-200	11.3	20	
alpha-Terpineol	21.9	2.50	ug/L	100	BLOD	21.9	0-200	12.2	20	
Anthracene	32.9	10.0	ug/L	100	BLOD	32.9	27-133	27.2	20	*P*
Benzo (a) anthracene	37.3	10.0	ug/L	100	BLOD	37.3	33-143	39.2	20	*P*
Benzo (a) pyrene	39.2	10.0	ug/L	100	BLOD	39.2	17-163	38.7	20	*P*
Benzo (b) fluoranthene	37.1	10.0	ug/L	100	BLOD	37.1	24-159	32.5	20	*P*
Benzo (g,h,i) perylene	43.2	10.0	ug/L	100	BLOD	43.2	10-219	38.7	20	*P*
Benzo (k) fluoranthene	35.5	10.0	ug/L	100	BLOD	35.5	11-162	45.2	20	*P*
bis (2-Chloroethoxy) methane	21.0	10.0	ug/L	100	BLOD	21.0	33-184	12.9	20	*M*
bis (2-Chloroethyl) ether	23.1	10.0	ug/L	100	BLOD	23.1	12-158	14.2	20	
2,2'-Oxybis (1-chloropropane)	21.8	10.0	ug/L	100	BLOD	21.8	36-166	15.6	20	*M*
bis (2-Ethylhexyl) phthalate	44.8	10.0	ug/L	100	BLOD	44.8	10-158	40.3	20	*P*
Butyl benzyl phthalate	50.1	10.0	ug/L	100	BLOD	50.1	10-152	38.6	20	*P*
Chrysene	37.9	10.0	ug/L	100	BLOD	37.9	17-169	35.5	20	*P*
Dibenz (a,h) anthracene	44.8	10.0	ug/L	100	BLOD	44.8	10-227	39.4	20	*P*
Diethyl phthalate	32.1	10.0	ug/L	100	BLOD	32.1	10-120	15.8	20	
Dimethyl phthalate	25.4	10.0	ug/L	100	BLOD	25.4	10-120	6.51	20	
Di-n-butyl phthalate	46.8	10.0	ug/L	100	BLOD	46.8	10-120	34.2	20	*P*
Di-n-octyl phthalate	47.2	10.0	ug/L	100	BLOD	47.2	10-146	39.9	20	*P*
Fluoranthene	36.6	10.0	ug/L	100	BLOD	36.6	26-137	34.3	20	*P*
Fluorene	26.4	10.0	ug/L	100	BLOD	26.4	59-121	8.28	20	*M*
Hexachlorobenzene	32.5	1.00	ug/L	100	BLOD	32.5	10-152	23.3	20	*P*

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0513 - SW3510C/EPA600-MS										
Matrix Spike Dup (BIC0513-MSD1)	**Source: 25C0376-03**			Prepared: 03/11/2025 Analyzed: 03/12/2025						
Hexachlorobutadiene	14.9	10.0	ug/L	100	BLOD	14.9	24-120	15.4	20	*M*
Hexachlorocyclopentadiene	4.31	10.0	ug/L	100	BLOD	4.31	10-90	3.87	20	*J, M*
Hexachloroethane	20.8	10.0	ug/L	100	BLOD	20.8	40-120	15.7	20	*M*
Indeno (1,2,3-cd) pyrene	41.2	10.0	ug/L	100	BLOD	41.2	10-171	40.2	20	*P*
Isophorone	14.4	10.0	ug/L	100	BLOD	14.4	21-196	12.8	20	*M*
Naphthalene	23.3	5.00	ug/L	100	BLOD	23.3	21-133	12.7	20	
Nitrobenzene	20.2	10.0	ug/L	100	BLOD	20.2	35-180	13.5	20	*M*
n-Nitrosodimethylamine	10.5	10.0	ug/L	100	BLOD	10.5	10-85	18.2	20	
n-Nitrosodi-n-propylamine	21.2	10.0	ug/L	100	BLOD	21.2	10-230	10.1	20	
n-Nitrosodiphenylamine	24.0	10.0	ug/L	100	BLOD	24.0	12-111	21.4	20	*P*
p-Chloro-m-cresol	27.5	10.0	ug/L	100	BLOD	27.5	10-127	7.05	20	
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L		BLOD		0-200		20	
Pentachlorophenol	23.2	20.0	ug/L	100	BLOD	23.2	14-176	40.5	20	*P*
Phenanthrene	34.9	10.0	ug/L	100	BLOD	34.9	54-120	26.0	20	*M, P*
Phenol	10.6	10.0	ug/L	101	2.59	7.89	10-120	8.70	20	*M*
Pyrene	32.8	10.0	ug/L	100	BLOD	32.8	52-120	36.8	20	*M, P*
Pyridine	13.2	10.0	ug/L	100	BLOD	13.2	10-110	25.4	20	*P*
Surr: 2,4,6-Tribromophenol (Surr)	*71.6*		ug/L	*200*		*35.8*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*20.3*		ug/L	*100*		*20.3*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*19.5*		ug/L	*200*		*9.74*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*20.4*		ug/L	*100*		*20.4*	*5-151*			
Surr: Phenol-d5 (Surr)	*19.1*		ug/L	*200*		*9.54*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*32.8*		ug/L	*100*		*32.8*	*5-141*			

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Wet Chemistry Analysis - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0258 - No Prep Wet Chem										
Blank (BIC0258-BLK1)				Prepared & Analyzed: 03/06/2025						
BOD	ND	2.0	mg/L							
LCS (BIC0258-BS1)				Prepared & Analyzed: 03/06/2025						
BOD	185		mg/L	198		93.4	84.6-115.4			
Duplicate (BIC0258-DUP1)	**Source: 25C0338-01**			Prepared & Analyzed: 03/06/2025						
BOD	ND	2.0	mg/L		BLOD			NA	20	
Batch BIC0308 - No Prep Wet Chem										
Blank (BIC0308-BLK1)				Prepared & Analyzed: 03/06/2025						
Nitrite as N	ND	0.05	mg/L							
LCS (BIC0308-BS1)				Prepared & Analyzed: 03/06/2025						
Nitrite as N	0.10	0.05	mg/L	0.100		101	80-120			
Matrix Spike (BIC0308-MS1)	**Source: 25C0368-01**			Prepared & Analyzed: 03/06/2025						
Nitrite as N	0.24	0.05	mg/L	0.100	0.17	63.0	80-120			*M*
Matrix Spike Dup (BIC0308-MSD1)	**Source: 25C0368-01**			Prepared & Analyzed: 03/06/2025						
Nitrite as N	0.24	0.05	mg/L	0.100	0.17	61.0	80-120	0.847	20	*M*
Batch BIC0748 - No Prep Wet Chem										
Blank (BIC0748-BLK1)				Prepared & Analyzed: 03/14/2025						
Ammonia as N	ND	0.10	mg/L							

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Wet Chemistry Analysis - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0748 - No Prep Wet Chem										
LCS (BIC0748-BS1)				Prepared & Analyzed: 03/14/2025						
Ammonia as N	1.09		mg/L	1.00		109	90-110			
Matrix Spike (BIC0748-MS1)	**Source: 25C0137-01**			Prepared & Analyzed: 03/14/2025						
Ammonia as N	1.10	0.10	mg/L	1.00	BLOD	110	89.3-131			
Matrix Spike (BIC0748-MS2)	**Source: 25C0365-01**			Prepared & Analyzed: 03/14/2025						
Ammonia as N	1.09	0.10	mg/L	1.00	BLOD	109	89.3-131			
Matrix Spike Dup (BIC0748-MSD1)	**Source: 25C0137-01**			Prepared & Analyzed: 03/14/2025						
Ammonia as N	1.10	0.10	mg/L	1.00	BLOD	110	89.3-131	0.0906	20	
Matrix Spike Dup (BIC0748-MSD2)	**Source: 25C0365-01**			Prepared & Analyzed: 03/14/2025						
Ammonia as N	1.10	0.10	mg/L	1.00	BLOD	110	89.3-131	0.822	20	
Batch BIC0784 - No Prep Wet Chem										
Blank (BIC0784-BLK1)				Prepared & Analyzed: 03/15/2025						
COD	ND	10.0	mg/L							
LCS (BIC0784-BS1)				Prepared & Analyzed: 03/15/2025						
COD	50.0	10.0	mg/L	50.0		100	88-119			
Matrix Spike (BIC0784-MS1)	**Source: 25C1043-01**			Prepared & Analyzed: 03/15/2025						
COD	53.7	10.0	mg/L	50.0	BLOD	107	72.4-130			
Matrix Spike Dup (BIC0784-MSD1)	**Source: 25C1043-01**			Prepared & Analyzed: 03/15/2025						
COD	52.4	10.0	mg/L	50.0	BLOD	105	72.4-130	2.58	20	

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Wet Chemistry Analysis - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC0866 - No Prep Wet Chem										
Blank (BIC0866-BLK1)				Prepared & Analyzed: 03/18/2025						
TKN as N	ND	0.50	mg/L							
LCS (BIC0866-BS1)				Prepared & Analyzed: 03/18/2025						
TKN as N	5.10		mg/L	5.00		102	90-110			
Matrix Spike (BIC0866-MS1)	**Source: 25C1343-02**			Prepared & Analyzed: 03/18/2025						
TKN as N	5.60	0.50	mg/L	5.00	0.52	102	90-110			
Matrix Spike (BIC0866-MS2)	**Source: 25C1343-08**			Prepared & Analyzed: 03/18/2025						
TKN as N	5.60	0.50	mg/L	5.00	0.62	99.6	90-110			
Matrix Spike Dup (BIC0866-MSD1)	**Source: 25C1343-02**			Prepared & Analyzed: 03/18/2025						
TKN as N	5.66	0.50	mg/L	5.00	0.52	103	90-110	1.12	20	
Matrix Spike Dup (BIC0866-MSD2)	**Source: 25C1343-08**			Prepared & Analyzed: 03/18/2025						
TKN as N	5.88	0.50	mg/L	5.00	0.62	105	90-110	4.90	20	
Batch BIC1028 - No Prep Wet Chem										
Blank (BIC1028-BLK1)				Prepared & Analyzed: 03/19/2025						
Total Recoverable Phenolics	ND	0.050	mg/L							
LCS (BIC1028-BS1)				Prepared & Analyzed: 03/19/2025						
Total Recoverable Phenolics	0.49	0.050	mg/L	0.510		96.1	80-120			
Matrix Spike (BIC1028-MS1)	**Source: 25C1338-02**			Prepared & Analyzed: 03/19/2025						
Total Recoverable Phenolics	0.41	0.050	mg/L	0.500	0.07	68.4	70-130			*M*

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Work Order: 25C0528

Wet Chemistry Analysis - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIC1028 - No Prep Wet Chem										
Matrix Spike Dup (BIC1028-MSD1)	**Source: 25C1338-02**			Prepared & Analyzed: 03/19/2025						
Total Recoverable Phenolics	0.40	0.050	mg/L	0.500	0.07	66.4	70-130	2.46	20	*M*
Batch BIC1089 - No Prep Wet Chem										
Blank (BIC1089-BLK1)				Prepared & Analyzed: 03/20/2025						
Nitrate+Nitrite as N	ND	0.10	mg/L							
LCS (BIC1089-BS1)				Prepared & Analyzed: 03/20/2025						
Nitrate+Nitrite as N	1.03		mg/L	1.00		103	90-110			
Matrix Spike (BIC1089-MS1)	**Source: 25C1079-01**			Prepared & Analyzed: 03/20/2025						
Nitrate+Nitrite as N	9.24	0.50	mg/L	5.00	4.52	94.4	90-120			
Matrix Spike Dup (BIC1089-MSD1)	**Source: 25C1079-01**			Prepared & Analyzed: 03/20/2025						
Nitrate+Nitrite as N	9.16	0.50	mg/L	5.00	4.52	92.9	90-120	0.815	20	

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Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			**Preparation Method:**	**EPA200.2R2.8/SW3005A-ICP**	
25C0528-01	50.0 mL / 50.0 mL	SW6010D	BIC0454	SIC0490	AC50220
25C0528-02	50.0 mL / 50.0 mL	SW6010D	BIC0454	SIC0490	AC50220
25C0528-03	50.0 mL / 50.0 mL	SW6010D	BIC0454	SIC0490	AC50220

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			**Preparation Method:**	**EPA200.2R2.8/SW3005A-ICPMS**	
25C0528-01	50.0 mL / 50.0 mL	SW6020B	BIC0460	SIC0492	AC50218
25C0528-02	50.0 mL / 50.0 mL	SW6020B	BIC0460	SIC0492	AC50218
25C0528-03	50.0 mL / 50.0 mL	SW6020B	BIC0460	SIC0492	AC50218

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			**Preparation Method:**	**No Prep Wet Chem**	
25C0528-01	300 mL / 300 mL	SM5210B-2016	BIC0258	SIC0456	
25C0528-02	300 mL / 300 mL	SM5210B-2016	BIC0258	SIC0456	
25C0528-03	300 mL / 300 mL	SM5210B-2016	BIC0258	SIC0456	
25C0528-01	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIC0308	SIC0313	AJ40362
25C0528-02	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIC0308	SIC0313	AJ40362
25C0528-03	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIC0308	SIC0313	AJ40362
25C0528-01	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
25C0528-02	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
25C0528-03	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
25C0528-01	2.00 mL / 2.00 mL	SM5220D-2011	BIC0784	SIC0703	AB50163
25C0528-02	2.00 mL / 2.00 mL	SM5220D-2011	BIC0784	SIC0703	AB50163
25C0528-03	2.00 mL / 2.00 mL	SM5220D-2011	BIC0784	SIC0703	AB50163

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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**	
25C0528-01	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
25C0528-02	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
25C0528-03	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
25C0528-01	0.200 mL / 10.0 mL	SW9065	BIC1028	SIC0919	AC50306
25C0528-02	0.200 mL / 10.0 mL	SW9065	BIC1028	SIC0919	AC50306
25C0528-03	0.500 mL / 10.0 mL	SW9065	BIC1028	SIC0919	AC50306
25C0528-01	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIC1089	SIC0976	AC50311
25C0528-02	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIC1089	SIC0976	AC50311
25C0528-03	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIC1089	SIC0976	AC50311

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			**Preparation Method:**	**SW3510C/EPA600-MS**	
25C0528-01	500 mL / 0.500 mL	SW8270E	BIC0513	SIC0908	AK40150
25C0528-01RE1	500 mL / 0.500 mL	SW8270E	BIC0513	SIC0959	AC50235
25C0528-02	500 mL / 1.00 mL	SW8270E	BIC0513	SIC0908	AK40150
25C0528-02RE1	500 mL / 1.00 mL	SW8270E	BIC0513	SIC0959	AC50235
25C0528-03	500 mL / 0.500 mL	SW8270E	BIC0513	SIC0908	AK40150
25C0528-03RE1	500 mL / 0.500 mL	SW8270E	BIC0513	SIC0959	AC50235

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			**Preparation Method:**	**SW5030B-MS**	
25C0528-01	5.00 mL / 5.00 mL	SW8260D	BIC0526	SIC0476	AK40303
25C0528-02	5.00 mL / 5.00 mL	SW8260D	BIC0526	SIC0476	AK40303
25C0528-03	5.00 mL / 5.00 mL	SW8260D	BIC0526	SIC0476	AK40303
25C0528-04	5.00 mL / 5.00 mL	SW8260D	BIC0526	SIC0476	AK40303
25C0528-01RE1	5.00 mL / 5.00 mL	SW8260D	BIC0606	SIC0539	AK40303
25C0528-02RE1	5.00 mL / 5.00 mL	SW8260D	BIC0606	SIC0539	AK40303

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QC Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			**Preparation Method:**	**EPA200.2R2.8/SW3005A-ICP**	
BIC0454-BLK1	50.0 mL / 50.0 mL	SW6010D	BIC0454	SIC0457	AC50220
BIC0454-BS1	50.0 mL / 50.0 mL	SW6010D	BIC0454	SIC0457	AC50220
BIC0454-MS1	50.0 mL / 50.0 mL	SW6010D	BIC0454	SIC0457	AC50220
BIC0454-MS2	50.0 mL / 50.0 mL	SW6010D	BIC0454	SIC0490	AC50220
BIC0454-MSD1	50.0 mL / 50.0 mL	SW6010D	BIC0454	SIC0457	AC50220
BIC0454-MSD2	50.0 mL / 50.0 mL	SW6010D	BIC0454	SIC0490	AC50220

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			**Preparation Method:**	**EPA200.2R2.8/SW3005A-ICPMS**	
BIC0460-BLK1	50.0 mL / 50.0 mL	SW6020B	BIC0460	SIC0492	AC50218
BIC0460-BS1	50.0 mL / 50.0 mL	SW6020B	BIC0460	SIC0492	AC50218
BIC0460-MS1	50.0 mL / 50.0 mL	SW6020B	BIC0460	SIC0492	AC50218
BIC0460-MSD1	50.0 mL / 50.0 mL	SW6020B	BIC0460	SIC0492	AC50218

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			**Preparation Method:**	**No Prep Wet Chem**	
BIC0258-BLK1	300 mL / 300 mL	SM5210B-2016	BIC0258	SIC0456	
BIC0258-BS1	300 mL / 300 mL	SM5210B-2016	BIC0258	SIC0456	
BIC0258-DUP1	300 mL / 300 mL	SM5210B-2016	BIC0258	SIC0456	
BIC0308-BLK1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIC0308	SIC0313	AJ40362
BIC0308-BS1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIC0308	SIC0313	AJ40362
BIC0308-MRL1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIC0308	SIC0313	AJ40362
BIC0308-MS1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIC0308	SIC0313	AJ40362
BIC0308-MSD1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIC0308	SIC0313	AJ40362

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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**	
BIC0748-BLK1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
BIC0748-BS1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
BIC0748-MRL1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
BIC0748-MRL2	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
BIC0748-MS1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
BIC0748-MS2	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
BIC0748-MSD1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
BIC0748-MSD2	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIC0748	SIC0684	AC50260
BIC0784-BLK1	2.00 mL / 2.00 mL	SM5220D-2011	BIC0784	SIC0703	AB50163
BIC0784-BS1	2.00 mL / 2.00 mL	SM5220D-2011	BIC0784	SIC0703	AB50163
BIC0784-MRL1	2.00 mL / 2.00 mL	SM5220D-2011	BIC0784	SIC0703	AB50163
BIC0784-MS1	2.00 mL / 2.00 mL	SM5220D-2011	BIC0784	SIC0703	AB50163
BIC0784-MSD1	2.00 mL / 2.00 mL	SM5220D-2011	BIC0784	SIC0703	AB50163
BIC0866-BLK1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
BIC0866-BS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
BIC0866-MRL1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
BIC0866-MRL2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
BIC0866-MS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
BIC0866-MS2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
BIC0866-MSD1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
BIC0866-MSD2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIC0866	SIC0799	AC50276
BIC1028-BLK1	5.00 mL / 10.0 mL	SW9065	BIC1028	SIC0919	AC50306
BIC1028-BS1	5.00 mL / 10.0 mL	SW9065	BIC1028	SIC0919	AC50306
BIC1028-MRL1	5.00 mL / 10.0 mL	SW9065	BIC1028	SIC0919	AC50306
BIC1028-MS1	5.00 mL / 10.0 mL	SW9065	BIC1028	SIC0919	AC50306
BIC1028-MSD1	5.00 mL / 10.0 mL	SW9065	BIC1028	SIC0919	AC50306
BIC1089-BLK1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIC1089	SIC0976	AC50311
BIC1089-BS1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIC1089	SIC0976	AC50311
BIC1089-MRL1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIC1089	SIC0976	AC50311

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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**	
BIC1089-MRL2	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIC1089	SIC0976	AC50311
BIC1089-MS1	5.00 mL / 25.0 mL	SM4500-NO3F-2019	BIC1089	SIC0976	AC50311
BIC1089-MSD1	5.00 mL / 25.0 mL	SM4500-NO3F-2019	BIC1089	SIC0976	AC50311

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			**Preparation Method:**	**SW3510C/EPA600-MS**	
BIC0513-BLK1	1000 mL / 1.00 mL	SW8270E	BIC0513	SIC0577	AK40150
BIC0513-BS1	1000 mL / 1.00 mL	SW8270E	BIC0513	SIC0577	AK40150
BIC0513-MS1	500 mL / 0.500 mL	SW8270E	BIC0513	SIC0577	AK40150
BIC0513-MSD1	500 mL / 0.500 mL	SW8270E	BIC0513	SIC0577	AK40150

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			**Preparation Method:**	**SW5030B-MS**	
BIC0526-BLK1	5.00 mL / 5.00 mL	SW8260D	BIC0526	SIC0476	AK40303
BIC0526-BS1	5.00 mL / 5.00 mL	SW8260D	BIC0526	SIC0476	AK40303
BIC0526-MS1	5.00 mL / 5.00 mL	SW8260D	BIC0526	SIC0476	AK40303
BIC0526-MSD1	5.00 mL / 5.00 mL	SW8260D	BIC0526	SIC0476	AK40303
BIC0606-BLK1	5.00 mL / 5.00 mL	SW8260D	BIC0606	SIC0539	AK40303
BIC0606-BS1	5.00 mL / 5.00 mL	SW8260D	BIC0606	SIC0539	AK40303
BIC0606-MS1	5.00 mL / 5.00 mL	SW8260D	BIC0606	SIC0539	AK40303
BIC0606-MSD1	5.00 mL / 5.00 mL	SW8260D	BIC0606	SIC0539	AK40303

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Certified Analyses included in this Report

Analyte	Certifications
EPA350.1 R2.0 in Non-Potable Water	
Ammonia as N	VELAP,NCDEQ,PADEP,WVDEP,SCDHEC
EPA351.2 R2.0 in Non-Potable Water	
TKN as N	VELAP,NCDEQ,WVDEP,SCDHEC
SM4500-NO2B-2021 in Non-Potable Water	
Nitrite as N	VELAP,WVDEP,NCDEQ,SCDHEC
SM4500-NO3F-2019 in Non-Potable Water	
Nitrate+Nitrite as N	VELAP,WVDEP,NCDEQ,SCDHEC
SM5210B-2016 in Non-Potable Water	
BOD	VELAP,NCDEQ,WVDEP
SM5220D-2011 in Non-Potable Water	
COD	VELAP,NCDEQ,PADEP,WVDEP,SCDHEC
SW6010D in Non-Potable Water	
Arsenic	VELAP,WVDEP,NCDEQ,SCDHEC
Barium	VELAP,WVDEP,PADEP,NCDEQ,SCDHEC
Cadmium	VELAP,WVDEP,PADEP,NCDEQ,SCDHEC
Chromium	VELAP,WVDEP,NCDEQ,SCDHEC
Copper	VELAP,WVDEP,NCDEQ,SCDHEC
Lead	VELAP,WVDEP,SCDHEC
Nickel	VELAP,WVDEP,SCDHEC
Selenium	VELAP,WVDEP,SCDHEC
Silver	VELAP,WVDEP,PADEP,SCDHEC
Zinc	VELAP,WVDEP,SCDHEC
SW6020B in Non-Potable Water	
Mercury	VELAP

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Certified Analyses included in this Report

Analyte	Certifications
SW8260D in Non-Potable Water	
2-Butanone (MEK)	NCDEQ,PADEP,VELAP,WVDEP
Acetone	NCDEQ,PADEP,VELAP,WVDEP
Benzene	NCDEQ,PADEP,VELAP,WVDEP
Ethylbenzene	NCDEQ,PADEP,VELAP,WVDEP
Toluene	NCDEQ,PADEP,VELAP,WVDEP
Xylenes, Total	NCDEQ,PADEP,VELAP,WVDEP
Tetrahydrofuran	PADEP,VELAP
SW8270E in Non-Potable Water	
Anthracene	NCDEQ,VELAP,PADEP,WVDEP
SW9065 in Non-Potable Water	
Total Recoverable Phenolics	VELAP,WVDEP

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Code	Description	Laboratory ID	Expires
DURSC-NCDEQ	NCDEQ Durham Service Center	703	12/31/2025
DURSC-NCDHHS	NCDHHS Durham Service Center	37918	07/31/2025
MdDOE	Maryland DE Drinking Water	341	12/31/2025
NCDEQ	North Carolina DEQ	495	12/31/2025
NCDHHS	North Carolina Department of Health and Human Services	51714	07/31/2025
NYDOH	New York DOH Drinking Water	12069	04/01/2025
PADEP	NELAP-Pennsylvania Certificate #009	68-03503	10/31/2025
SCDHEC	South Carolina Dept of Health and Environmental Control Certificate 93016001	93016	06/14/2025
TXCEQ	Texas Comm on Environmental Quality #T104704576-23-1	T104704576	05/31/2025
VELAP	NELAP-Virginia Certificate #12969	460021	06/14/2025
WVDEP	West Virginia DEP	350	11/30/2025

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Qualifiers and Definitions

DS	Surrogate concentration reflects a dilution factor.
E	Estimated concentration, outside calibration range
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
P	Duplicate analysis does not meet the acceptance criteria for precision

RPD	Relative Percent Difference
Qual	Qualifers
-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.

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CHAIN OF CUSTODY

COMPANY NAME: SCS Engineers	INVOICE TO: City of Bristol, VA	PROJECT NAME/Quote #: City of Bristol Landfill #588
CONTACT: Jennifer Robb	INVOICE CONTACT: Jon Hayes	SITE NAME: LFG-EW Monthly Monitoring
ADDRESS: 296 Victory Road. Winchester, VA	INVOICE ADDRESS: 2655 Valley Drive, Bristol, VA, 24201	PROJECT NUMBER: 02218208.15 Task 3
PHONE #: 703-471-6150	INVOICE PHONE #: 276-645-3788	P.O. #:
EMAIL: jrobb@scsengineers.com	EMAIL: jon.hayes@bristolva.org	Pretreatment Program:

Is sample for compliance reporting? YES NO | Regulatory State: V A | Is sample from a chlorinated supply? YES NO | PWS I.D. #:

SAMPLER NAME (PRINT): M. NGUYEN; L. NELSON | SAMPLER SIGNATURE: | Turn Around Time: 10 Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other_____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE) VOCs (Acetone, Benzene, EB, MEK, THF, Toluene, Xylene) Custom List	Mercury Method 6020	Metals 6010 (Ag, As, Ba, Cd, Cr, Cu, Ni, Pb, Se, Zn)	Phenolics	TKN, Nitrate (Cd), Nitrite	SVOC (Anthracene only)	COD, Ammonia	BOD			COMMENTS
1) EW-68	X					030525	825		GW	9	X	X	X	X	X	X	X	X			
2) EW-60	X					↓	910		GW	9	X	X	X	X	X	X	X	X			
3) EW-50	X					↓	1005		GW	9	X	X	X	X	X	X	X	X			
4)									GW												
5)									GW												
6)									GW												
7)									GW												
8)									GW												
9)									GW												OT: 1.5°C
10) Trip Blank						1/27/25	1010		DI	2	X										CF: 0.0°C

Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

Note VOC 8260 no HCl

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
[signature]	3/5/25/1600	FedEx E	
RELINQUISHED: FedEx E	DATE / TIME	RECEIVED: [signature] 3-6-25	DATE / TIME 1005
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME

QC Data Package
Level III ☐
Level IV ☐

LAB USE ONLY Therm ID: 271 COOLER TEMP 1.5 °C
Custody Seals used and intact? (Y / N) Received on ice? (Y / N)

SCS-W **25C0528**
24-12 Bristol LFG - EW
Recd: 03/06/2025 Due: 03/20/2025

25C0528

v130325002 el Log

ENTHALPY ANALYTICAL

Sample Preservation Log

Order ID 25C0528 Date Performed: 3/7/25 Analyst Performing Check: HEG

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	pH as Received		Final pH	pH as Received		Final pH	Received Res. Cl		final + or -	Received Res. Cl		final + or -	Received pH	Final pH	pH as Received		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		+	-		+	-				< 2	Other		< 2	Other		< 2	Other	
1	A		6	<2																																					
1	D										6	<2		6	<2					6	<2														6	<2					
1	E																																					6	<2	
1	F																												—											
2	A		6	<2																																				
2	D										6	<2		6	<2					6	<2														6	<2					
2	E																																					6	<2	
2	F																												—											
3	A		6	<2																																				
3	D										6	<2		6	<2					6	<2														6	<2					
3	E																																					6	<2	
3	F																												—											

NaOH ID: _____ HNO3 ID: 5B02513 CrVI preserved date/time: _____ Analyst Initials: _____

*** pH must be adjusted between 9.3 - 9.7***

H_2SO_4 ID: 5B02453 $Na_2S_2O_3$ ID: _____ Ammonia Buffer Sol'n ID: _____

HCL ID: _____ Na_2SO_3 ID: _____ 5N NaOH ID: _____

Metals were received with pH =6 HNO3 was added at 1000 on March 7, 2025, by HEG in the Log-In room to bring pH= <2.

**W.Ve only certifies DISS CrVI and not T CrVI as an approved analyte under 40CFR136 for waste water.

Enthalpy Analytical
1941 Reymet Road
Richmond, Virginia 23237
(804)-358-8295 - Telephone
(804)-358-8297 - Fax

Certificate of Analysis

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

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

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Laboratory Order ID: 25C0528

Sample Conditions Checklist

Samples Received at:	**1.50°C**
How were samples received?	FedEx Express
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?	No
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? Note that metals containers do not require field preservation but lab preservation may delay analysis. In addition, field parameters are always received outside holding time and will be marked accordingly.	No

Work Order Comments

Jennifer robb notified via email for the containers for Ammonia, COD, Nitrate Cd, TKN, and Phenolics for samples "EW-68", "Ew-60", and "EW-50" were received outside of the pH range for analysis and have been preserved in the lab to the appropriate pH. All the VOAC40mLHCl containers for these samples were received

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Certificate of Analysis

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Submitted To: Jennifer Robb

Date Issued: 3/28/2025 1:40:42PM
Work Order: 25C0528

with headspace. HEG 3/7/25 1051

Jennifer Robb confirmed via email to proceed with analysis. HEG 3/7/25 1317

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Ammonia as N (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	**1560**	---	**1400**	---	---	**1380**	---	---	---	---	---	---	---	---	---	50	50
	December-2022	---	**1700**	---	**2280**	---	---	---	**2110**	---	**1410**	**1310**	---	---	---	---	**1150**	**1780**	---	---	---	---	---	---	---	100	100
	January-2023	---	**1520**	---	---	---	---	---	---	**936**	---	---	---	---	---	**1330**	---	---	---	---	---	---	---	---	---	50	50
		---	---	---	---	---	---	---	---	---	**2440**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	100
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1490**	---	---	---	---	---	---	---	100	100
	March-2023	---	---	---	---	---	---	---	---	**667**	**1480**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
	April-2023	---	---	---	---	---	---	---	---	**1410**	---	**1220**	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
	May-2023	---	**1390**	---	---	---	---	---	---	**1860**	**2380**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	June-2023	---	---	---	---	---	---	---	---	---	**2740**	---	**2370**	---	**2170**	---	---	---	---	---	---	---	---	---	---	146	200
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1180**	---	---	---	---	---	---	73.1	100
		---	**1570**	---	---	---	---	---	**2260**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2350**	**310**	146	200
	August-2023	---	---	---	---	---	**1600**	---	**1890**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2140**	**222**	146	200
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1720**	---	---	---	---	---	---	73.1	100
		---	---	---	**1250**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	October-2023	---	---	---	---	---	---	**1980**	---	---	---	---	---	---	---	---	---	---	**1730**	---	---	**2890**	---	---	---	146	200
	November-2023	---	**1260**	---	**2490**	**1830**	---	**2070**	---	---	---	---	---	---	---	---	---	---	**1800**	---	---	**2590**	---	---	---	146	200
		---	---	---	---	---	---	---	---	---	---	---	---	**1170**	---	---	---	---	---	---	---	---	---	---	**2080**	183	250
		---	---	---	---	---	---	---	---	---	**2440**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	366	500
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1540**	---	---	---	---	---	---	73.1	100
		---	---	---	**2900**	---	---	---	---	---	---	---	---	---	---	---	---	**2200**	---	---	---	---	---	---	---	146	200
	January-2024	---	---	**2160**	---	---	---	---	---	---	**2400**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1610**	146	200
	February-2024	---	---	**1900**	---	**2600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1780**	---	**2380**	---	---	146	200
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2280**	---	**968**	146	200
	April-2024	---	---	---	**2290**	---	---	---	---	---	---	---	---	**928**	---	---	---	**2140**	**1800**	---	---	---	---	---	---	146	200
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**898**	73.1	100
		---	---	---	---	---	---	---	---	---	**2550**	---	---	---	---	---	---	---	**1620**	---	**1950**	**2660**	---	---	---	146	200
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1990**	---	**2170**	---	---	---	**1850**	146	200
	July-2024	---	---	---	---	---	---	---	---	---	**1860**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
		---	---	---	---	---	---	---	---	---	---	**1950**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	August-2024	---	---	---	---	---	**1110**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2130**	---	---	**2550**	---	146	200
	September-2024	---	---	---	---	---	**1440**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
		---	---	---	**2210**	---	---	---	---	---	---	---	---	---	---	---	---	**2290**	---	---	---	---	---	---	---	146	200
	October-2024	**343**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1490**	---	---	---	---	---	73.1	100
		---	**1370**	---	**2180**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	November-2024	**934**	**1370**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	December-2024	---	---	---	**1510**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1560**	146	200
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.68**	---	---	---	---	0.005	0.01
	February-2025	---	**1300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1400**	---	---	---	---	73.1	100
		---	---	---	---	---	---	---	---	---	---	---	**1160**	---	---	---	---	---	---	---	---	---	---	---	---	199	199
	March-2025	---	**1240**	---	---	---	---	---	---	---	---	**1480**	---	---	---	---	---	**2110**	---	---	---	---	---	---	---	146	200
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

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Chemical Oxygen Demand (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	---	---	**9790**	---	---	**10800**	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	**23500**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
	December-2022	---	**7440**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	**13200**	**8000**	---	---	---	---	**20300**	**14100**	---	---	---	---	---	---	---	2000	2000
		---	---	---	---	---	---	---	**22400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	**86800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	January-2023	---	---	---	---	---	---	---	---	**3630**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
		---	**14900**	---	---	---	---	---	---	---	---	---	---	---	---	**8430**	---	---	---	---	---	---	---	---	---	2000	2000
		---	---	---	---	---	---	---	---	---	**47600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**9210**	---	---	---	---	---	---	---	1000	1000
	March-2023	---	---	---	---	---	---	---	---	**1690**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
		---	---	---	---	---	---	---	---	---	**10600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
	April-2023	---	---	---	---	---	---	---	---	---	---	**7370**	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	**16800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
	May-2023	---	**7590**	---	---	---	---	---	---	**18700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
		---	---	---	---	---	---	---	---	---	**44700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4000	4000
	June-2023	---	---	---	---	---	---	---	---	---	---	---	**44800**	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	**41300**	---	---	---	**55000**	---	---	---	---	---	---	---	---	---	---	10000	10000
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2180**	500	500
		---	**6480**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2460**	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**41000**	---	5000	5000
		---	---	---	---	---	---	---	**50100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1750**	500	500
		---	---	---	---	---	**59000**	---	**58600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**60600**	---	5000	5000
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**6260**	---	---	---	---	---	---	1000	1000
		---	---	---	**87400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**5320**	---	---	---	---	---	---	500	500
		---	---	---	---	---	---	**51000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**63600**	---	---	---	10000	10000
	November-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4710**	---	---	---	---	---	---	1000	1000
		---	**6200**	---	---	---	---	---	---	---	---	---	---	**5620**	---	---	---	---	---	---	---	---	---	---	---	2000	2000
		---	---	---	---	**48100**	---	**57900**	---	---	**43700**	---	---	---	---	---	---	---	---	---	---	---	---	---	**37600**	5000	5000
		---	---	---	**77100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**63900**	---	---	---	10000	10000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4870**	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**19900**	---	---	---	---	---	---	---	5000	5000
		---	---	---	**94200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	January-2024	---	---	**48600**	---	---	---	---	---	---	**59800**	---	---	---	---	---	---	---	---	---	---	---	---	---	**38200**	5000	5000
	February-2024	---	---	**42700**	---	**51200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**48900**	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**68400**	---	---	10000	10000
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**14400**	2000	2000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**75500**	---	---	10000	10000
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**3110**	---	---	---	---	**4200**	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**32400**	---	---	---	---	---	---	---	5000	5000
		---	---	---	**79700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4930**	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**17700**	5000	5000
		---	---	---	---	---	---	---	---	---	**48500**	---	---	---	---	---	---	---	---	---	**43100**	**70700**	---	---	---	10000	10000
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4520**	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**51400**	---	---	---	**31300**	5000	5000
	July-2024	---	---	---	---	---	---	---	---	---	**42400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	**98500**	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	August-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**48100**	---	---	**59500**	---	5000	5000
		---	---	---	---	---	**56600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	September-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**26800**	---	---	---	---	---	---	---	4000	4000
		---	---	---	---	---	**55900**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	**78300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	October-2024	**951**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
		---	**10700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
		---	---	---	**83300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**62000**	---	---	---	---	---	10000	10000
	November-2024	**9540**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	**8840**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**36600**	5000	5000
		---	---	---	**81500**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**36800**	---	---	---	---	5000	5000
	February-2025	---	**3630**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23400**	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	---	**447000**	---	---	---	---	---	---	---	---	---	---	---	---	100000	100000
	March-2025	---	**8700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**51500**	---	---	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	**74600**	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	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
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	1.5	5.5
	January-2023	---	---	---	---	---	---	---	---	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
		---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.2	5.2
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	1.1	5.1
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	1.2	5.2
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.355**	---	---	---	---	---	---	0.15	0.35
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.55	0.75
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	3
		---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1.5	5.5
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.15	0.35
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1.5	3.5
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.3	1.1
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.7	1.5
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.35	1.35
		---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	3
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	1.5	3.5
	November-2023	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.15	0.35
		---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.35	1.35
		---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.75	1.75
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.1	5.1
		---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	1.5	5.5
	December-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	1.1	5.1
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	1.5	5.5
	January-2024	---	---	**2.01**	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	1.5	5.5
	February-2024	---	---	**9.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	1.5	5.5
		---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.5	7.5
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	0.75	1.75
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	0.35	0.35
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	5.5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	2.5	10.5
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.15	0.35
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		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.1	5.1
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.692**	---	---	---	---	---	---	0.6	2.6
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	1.5	3.5
	July-2024	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	2.5
		---	---	---	---	---	---	---	---	---	**6.66**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	25
	August-2024	---	---	---	---	---	**1.57**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	0.25	1.25
	September-2024	---	---	---	ND	---	**2.42**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	1.25
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	5	25
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1	0.5
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	1	5
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	50
	November-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	1.25
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	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.5	2.5
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.5	1.25
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	1	5
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	10	50
	March-2025	---	ND	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	2	10

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Nitrite as N (mg/L)	December-2022	---	---	---	---	---	---	---	---	---	---	**0.12 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1	0.5
		---	ND	---	ND	---	---	---	ND	---	ND	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	1	5
	January-2023	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	1.25
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	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.48 J**	---	---	---	---	---	---	---	0.25	1.25
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	5
	April-2023	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	2.5
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	5
	June-2023	---	---	---	---	---	---	---	---	---	**2 J**	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	1	5
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	0.05	0.25
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	2.5
		---	---	---	---	---	---	---	**1.2 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1	5
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.05	0.25
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.5	2.5
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.2	1
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.25	1.25
		---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	0.5	2.5
	November-2023	---	**0.06 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.05	0.25
		---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.25	1.25
		---	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	1	5
	December-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	1	5
	January-2024	---	---	**1.7 J**	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	1	5
	February-2024	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	1	5
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**0.25 J**	0.25	1.25
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	0.25	0.25
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	2	10
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.05	0.25
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.25	1.25
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	0.5	2.5
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	5
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	ND	0.5	2.5
	July-2024	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	2.5
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	25
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	0.25	1.25
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	1.25
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	5	25
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1	0.5
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	1	5
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	50
	November-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	1.25
		---	**1.35 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	2.5
	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.5	2.5
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.25	1.25
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	1	5
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	10	50
	March-2025	---	ND	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	2	10

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Total Kjeldahl Nitrogen (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	---	---	**1290**	---	---	**1470**	---	---	---	---	---	---	---	---	---	20	50
		---	---	---	---	---	---	---	---	---	**2110**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	125
	December-2022	---	**1510**	---	**3570**	---	---	---	**1790**	---	**1830**	**1490**	---	---	---	---	**1340**	**1940**	---	---	---	---	---	---	---	200	500
	January-2023	---	**1840**	---	---	---	---	---	---	**881**	---	---	---	---	---	**1410**	---	---	---	---	---	---	---	---	---	20	50
		---	---	---	---	---	---	---	---	---	**2970**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	100
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1870**	---	---	---	---	---	---	---	16.8	50
	March-2023	---	---	---	---	---	---	---	---	**879**	**1920**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	33.6	100
	April-2023	---	---	---	---	---	---	---	---	**1820**	---	**1510**	---	---	---	---	---	---	---	---	---	---	---	---	---	16.8	50
	May-2023	---	**1590**	---	---	---	---	---	---	**1950**	**2910**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	100
	June-2023	---	---	---	---	---	---	---	---	---	**3080**	---	---	---	**2750**	---	---	---	---	---	---	---	---	---	---	100	250
		---	---	---	---	---	---	---	---	---	---	---	**2650**	---	---	---	---	---	---	---	---	---	---	---	---	200	500
	July-2023	---	**1670**	---	---	---	---	---	**2960**	---	---	---	---	---	---	---	---	---	**1670**	---	---	---	---	**2720**	**285**	40	100
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**279**	10	25
		---	---	---	---	---	**2240**	---	**2820**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2850**	---	100	250
	September-2023	---	---	---	**3340**	---	---	---	---	---	---	---	---	---	---	---	---	---	**2680**	---	---	---	---	---	---	100	250
	October-2023	---	---	---	---	---	---	**1050**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1320**	---	---	---	40	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4630**	---	---	---	---	---	---	100	250
	November-2023	---	---	---	---	---	---	**2240**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2120**	80	200
		---	**1440**	---	**3290**	**2630**	---	---	---	---	**2530**	---	---	**1120**	---	---	---	---	**2270**	---	---	**3170**	---	---	---	100	250
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1880**	---	---	---	---	---	---	---	80	200
		---	---	---	**3130**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1890**	---	---	---	---	---	---	100	250
	January-2024	---	---	**2450**	---	---	---	---	---	---	**3020**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1810**	100	250
	February-2024	---	---	**2540**	---	**2890**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2470**	---	**2970**	---	---	100	250
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1030**	50	125
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2980**	---	---	100	250
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**1030**	---	---	---	---	**1730**	---	---	---	---	---	---	40	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2320**	---	---	---	---	---	---	---	50	125
		---	---	---	**3260**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1140**	40	100
		---	---	---	---	---	---	---	---	---	**3120**	---	---	---	---	---	---	---	**1780**	---	**2470**	**3280**	---	---	---	100	250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1870**	---	---	---	---	---	**4750**	100	250
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2680**	---	---	---	---	200	500
	July-2024	---	---	---	---	---	---	---	---	---	**2840**	**2680**	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	August-2024	---	---	---	---	---	**1980**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1460**	---	---	**3150**	---	100	250
	September-2024	---	---	---	---	---	**2090**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	125
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2650**	---	---	---	---	---	---	---	80	200
		---	---	---	**3320**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	October-2024	**351**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1870**	---	---	---	---	---	40	100
		---	**1360**	---	**2850**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	November-2024	**1070**	**1610**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	100
	December-2024	---	---	---	**2790**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2210**	100	250
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1960**	---	---	---	---	40	100
	February-2025	---	---	---	---	---	---	---	---	---	---	---	**0.948**	---	---	---	---	---	---	---	---	---	---	---	---	0.0398	0.0995
		---	**1190**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1520**	---	---	---	---	100	250
	March-2025	---	**1230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**---**	---	---	---	---	40	100
		---	---	---	---	---	---	---	---	---	---	**1920**	---	---	---	---	---	**2700**	---	---	**---**	---	---	---	---	100	250

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Total Recoverable Phenolics (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	---	---	**5.68**	---	---	**3**	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	**28.8**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.75	1.25
	December-2022	---	---	---	---	---	---	---	---	---	---	**8.94**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	**24.9**	---	**54.6**	---	---	---	**28.3**	---	**32**	---	---	---	---	---	**20.2**	**36**	---	---	---	---	---	---	---	1.5	2.5
	January-2023	---	**27.2**	---	---	---	---	---	---	**1.3**	---	---	---	---	---	**20.2**	---	---	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	**56.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**22.4**	---	---	---	---	---	---	---	1.5	2.5
	March-2023	---	---	---	---	---	---	---	---	**0.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03	0.05
		---	---	---	---	---	---	---	---	---	**13.9**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
	April-2023	---	---	---	---	---	---	---	---	**18.7**	---	**5.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
	May-2023	---	**18.6**	---	---	---	---	---	---	**20**	**50**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	June-2023	---	---	---	---	---	---	---	---	---	**39.1**	---	**45.6**	---	**80.6**	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.7**	---	---	---	---	---	---	0.15	0.25
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.92**	0.3	0.5
		---	**11.6**	---	---	---	---	---	**47.9**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**37.3**	---	1.5	2.5
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.46**	0.15	0.25
		---	---	---	---	---	**28.6**	---	**31.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**40.4**	---	1.5	2.5
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4.58**	---	---	---	---	---	---	0.3	0.5
		---	---	---	**38.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4.13**	---	---	---	---	---	---	0.15	0.25
		---	---	---	---	---	---	**37**	---	---	---	---	---	---	---	---	---	---	---	---	---	**38.7**	---	---	---	0.6	1
	November-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3.65**	---	---	---	---	---	---	0.15	0.25
		---	**7.88**	---	---	**36.4**	---	---	---	---	---	---	---	**4.76**	---	---	---	---	---	---	---	---	---	---	---	0.6	1
		---	---	---	**38.8**	---	---	**47.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	**47.1**	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	**46.9**	---	---	---	---	---	---	---	---	---	---	---	---	---	**29.1**	1.5	2.5
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3.72**	---	---	---	---	---	---	0.06	0.1
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23**	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	**34.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	January-2024	---	---	**38**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**22.7**	1.5	2.5
		---	---	---	---	---	---	---	---	---	**39.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	February-2024	---	---	**37.3**	---	**42.9**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**50.2**	---	**43.1**	---	---	1.5	2.5
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**46.6**	---	**12.8**	3	5
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**1.68**	---	---	---	---	**1.16**	---	---	---	---	---	---	0.3	0.5
		---	---	---	**38.4**	---	---	---	---	---	---	---	---	---	---	---	---	**28.6**	---	---	---	---	---	---	---	1.5	2.5
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.06**	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	**36.6**	---	---	---	---	---	---	---	---	---	**33.6**	**51**	---	---	---	3	5
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.82**	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23.2**	1.5	2.5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**44.8**	---	---	---	---	3	5
	July-2024	---	---	---	---	---	---	---	---	---	---	**28.8**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	**37.8**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	August-2024	---	---	---	---	---	**29.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	**44.2**	---	---	**39.2**	---	3	5
	September-2024	---	---	---	**39.6**	---	**31.6**	---	---	---	---	---	---	---	---	---	---	**31.6**	---	---	---	---	---	---	---	3	5
	October-2024	**0.376**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03	0.05
		---	**8.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**45.1**	---	---	---	---	---	1.5	2.5
		---	---	---	**37.6**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	November-2024	**5.22**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	**10.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**26.4**	1.5	2.5
		---	---	---	**37.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**34.4**	---	---	---	---	3	5
	February-2025	---	**8.15**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**20.8**	---	---	---	---	1.5	2.5
		---	---	---	---	---	---	---	---	---	---	---	**516**	---	---	---	---	---	---	---	---	---	---	---	---	495	495
	March-2025	---	**3.88**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	---	**21.4**	---	---	---	---	---	**25.9**	---	---	---	---	---	---	---	0.75	1.25

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
SEMI-VOLATILE ORGANIC COMPOUND (ug/L)																											
Anthracene	November-2022	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	46.7	93.5
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	93.5	187
	December-2022	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	9.35	9.35
		---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	11.7	11.7
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23.4	23.4
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	485	971
	January-2023	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	243	485
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	253	505
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	490	980
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	187	374
	March-2023	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	51	102
		---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	117	234
	April-2023	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.4	74.8
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	38.8	77.7
	May-2023	---	ND	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	93.5	187
		---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	467	935
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	485	971
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	490	980
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	46.7	93.5
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	250	500
		---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	1000	2000
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	19.6	39.2
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1000	2000
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	40	80
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	40	80
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	50	100
		---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000
	November-2023	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	20	40
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	50	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	100	200
		---	---	---	---	ND	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	400	800
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	2000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	50	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	100	200
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400
	January-2024	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	250	500
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	2000
	February-2024	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400
		---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	400000	800000
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	20	40
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	80	160
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	5	10
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	20	40
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	100	200
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400	800
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	ND	---	---	---	ND	10	10
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	80	160
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	20	40
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	100	200
	July-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	80
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	80	160
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400	800
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	500	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1000	2000
	September-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	100	200
		---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400
	October-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	100
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	200	400
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	100
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	200	400
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400	800
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	100	200
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	200	400
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	4160	4160
	March-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	100	200
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	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
		---	---	---	---	---	---	---	---	**0.36**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.01
	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
		---	---	---	---	---	---	---	**0.7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.15**	0.0025	0.005
		---	---	---	---	---	**0.32**	---	**0.43**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.29**	---	0.005	0.01
	September-2023	---	---	---	**0.42**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.25**	---	---	---	---	---	---	0.005	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.24**	---	---	**0.31**	---	---	---	0.0005	0.001
		---	---	---	---	---	---	**0.36**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.002
	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
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.24**	---	---	---	---	---	---	0.001	0.002
	January-2024	---	---	**0.47**	---	---	---	---	---	---	**0.23**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.18**	0.0025	0.005
	February-2024	---	---	**0.68**	---	**0.42**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.33**	---	**0.23**	---	---	0.002	0.002
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.12**	0.001	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.23**	---	---	0.0025	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.49**	---	---	---	---	**0.18**	---	---	---	---	---	---	0.0005	0.001
		---	---	---	**0.31**	---	---	---	---	---	---	---	---	---	---	---	---	**0.33**	---	---	---	---	---	---	---	0.004	0.004
	May-2024	---	---	---	---	---	---	---	---	---	**0.33**	---	---	---	---	---	---	---	**0.2**	---	**0.73**	**0.22**	---	---	**0.22**	0.005	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.19**	---	**0.49**	---	---	---	**0.14**	0.005	0.01
	July-2024	---	---	---	---	---	---	---	---	---	**300**	**0.095**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
	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
		---	---	---	---	---	---	---	---	---	---	---	**0.774 J**	---	---	---	---	---	---	---	---	---	---	---	---	0.465	1
	March-2025	---	**0.158**	---	---	---	---	---	---	---	---	**0.344**	---	---	---	---	---	**0.254**	---	---	---	---	---	---	---	0.01	0.02

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Barium	November-2022	---	---	---	---	---	---	---	---	---	**0.871**	---	**0.485**	---	---	**0.36**	---	---	---	---	---	---	---	---	---	0.01	0.02
	December-2022	---	**0.566**	---	**0.803**	---	---	---	**0.978**	---	**0.438**	**0.214**	---	---	---	---	**0.856**	**0.793**	---	---	---	---	---	---	---	0.01	0.02
	January-2023	---	**0.643**	---	---	---	---	---	---	**0.683**	**1.92**	---	---	---	---	**0.554**	---	---	---	---	---	---	---	---	---	0.005	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.04**	---	---	---	---	---	---	---	0.01	0.05
	March-2023	---	---	---	---	---	---	---	---	**0.406**	**0.683**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.01
	April-2023	---	---	---	---	---	---	---	---	**1.21**	---	**0.326**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	May-2023	---	**0.636**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.025
		---	---	---	---	---	---	---	---	**1.2**	**1.83**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	June-2023	---	---	---	---	---	---	---	---	---	**1.69**	---	---	---	**1.65**	---	---	---	---	---	---	---	---	---	---	0.005	0.025
		---	---	---	---	---	---	---	---	---	---	---	**3.01**	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.217**	0.001	0.005
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.558**	---	---	---	---	---	---	0.002	0.01
		---	**0.542**	---	---	---	---	---	**2.28**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.02**	---	0.005	0.025
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.218**	0.005	0.025
		---	---	---	---	---	**1.61**	---	**1.58**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.48**	---	0.01	0.05
	September-2023	---	---	---	**0.72**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.649**	---	---	---	---	---	---	0.01	0.05
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.664**	---	---	---	---	---	---	0.002	0.01
		---	---	---	---	---	---	**2.56**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.93**	---	---	---	0.005	0.025
	November-2023	---	**0.572**	---	**0.81**	**2.28**	---	**2.51**	---	---	**1.96**	---	---	**0.418**	---	---	---	---	**0.67**	---	---	**2.06**	---	---	**2.84**	0.01	0.05
	December-2023	---	---	---	**0.68**	---	---	---	---	---	---	---	---	---	---	---	---	**1.36**	---	---	---	---	---	---	---	0.005	0.025
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.672**	---	---	---	---	---	---	0.002	0.01
	January-2024	---	---	---	---	---	---	---	---	---	**1.92**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.91**	0.005	0.025
		---	---	**3.27**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	February-2024	---	---	**3.03**	---	**4.41**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.65**	---	**0.925**	---	---	0.005	0.025
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.03**	0.002	0.01
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.54**	---	---	0.005	0.025
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.4**	---	---	---	---	**0.634**	---	---	---	---	---	---	0.001	0.005
		---	---	---	**1.02**	---	---	---	---	---	---	---	---	---	---	---	---	**2.15**	---	---	---	---	---	---	---	0.01	0.05
	May-2024	---	---	---	---	---	---	---	---	---	**1.79**	---	---	---	---	---	---	---	**0.619**	---	**2.8**	**2.06**	---	---	**0.872**	0.01	0.05
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.6**	---	**3.44**	---	---	---	**1.51**	0.01	0.05
	July-2024	---	---	---	---	---	---	---	---	---	**1.28**	**2.75**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.025
	August-2024	---	---	---	---	---	**1.27**	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.39**	---	---	**0.862**	---	0.01	0.05
	September-2024	---	---	---	**1.34**	---	**1.33**	---	---	---	---	---	---	---	---	---	---	**3.65**	---	---	---	---	---	---	---	0.01	0.05
	October-2024	**0.26**	**0.568**	---	**1.17**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3.33**	---	---	---	---	---	0.01	0.05
	November-2024	**0.262**	**0.69**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	December-2024	---	---	---	**2.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.21**	0.01	0.05
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.88**	---	---	---	---	0.01	0.05
	February-2025	---	**0.633**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.48**	---	---	---	---	0.01	0.05
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	0.465	0.5
	March-2025	---	**0.516**	---	---	---	---	---	---	---	---	**1.05**	---	---	---	---	---	**2.93**	---	---	---	---	---	---	---	0.005	0.01

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Cadmium	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	0.004	0.008
	December-2022	---	ND	---	**0.0104**	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	0.004	0.008
	January-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	0.002	0.004
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.000297 J**	---	---	---	---	---	---	---	0.0001	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.004
	April-2023	---	---	---	---	---	---	---	---	**0.000158 J**	---	**0.000333 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0001	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0005	0.005
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	0.0005	0.005
	July-2023	---	**0.000219 J**	---	---	---	---	---	**0.000156 J**	---	---	---	---	---	---	---	---	---	**0.000186 J**	---	---	---	---	ND	ND	0.0001	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0005	0.005
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.001	0.01
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.001	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.000171 J**	---	---	ND	---	---	---	0.0001	0.001
		---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.002
	November-2023	---	ND	---	ND	ND	---	ND	---	---	ND	---	---	ND	---	---	---	---	ND	---	---	ND	---	---	ND	0.001	0.003
	December-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	**0.000604 J**	---	---	---	---	---	---	---	0.0005	0.0015
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.0002	0.002
	January-2024	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0005	0.005
	February-2024	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0175**	---	ND	---	---	0.0005	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0002	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	0.0005	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.000204 J**	---	---	---	---	**0.000195 J**	---	---	---	---	---	---	0.0001	0.001
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.001	0.004
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	**0.0483**	ND	---	---	ND	0.001	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**0.0175**	---	---	---	ND	0.001	0.01
	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0005	0.005
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00508 J**	---	---	**0.00247 J**	---	0.001	0.01
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.001	0.01
	October-2024	**0.00117 J**	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.001	0.01
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.01
	December-2024	---	---	---	**0.00661 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00304 J**	0.001	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.198**	---	---	---	---	0.004	0.01
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0101**	---	---	---	---	0.001	0.01
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	0.186	0.2
	March-2025	---	ND	---	---	---	---	---	---	---	---	**0.0119**	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.002	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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Chromium	November-2022	---	---	---	---	---	---	---	---	---	**0.208**	---	**0.112**	---	---	**0.354**	---	---	---	---	---	---	---	---	---	0.016	0.02
	December-2022	---	**0.503**	---	**1.08**	---	---	---	**1.76**	---	**0.274**	**0.319**	---	---	---	---	**0.499**	**0.822**	---	---	---	---	---	---	---	0.016	0.02
	January-2023	---	**0.31**	---	---	---	---	---	---	**0.488**	**0.178**	---	---	---	---	**0.155**	---	---	---	---	---	---	---	---	---	0.008	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.277**	---	---	---	---	---	---	---	0.004	0.01
	March-2023	---	---	---	---	---	---	---	---	**0.213**	**0.188**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.008	0.01
	April-2023	---	---	---	---	---	---	---	---	---	---	**0.142**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.001
		---	---	---	---	---	---	---	---	**0.306**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.01
	May-2023	---	**0.422**	---	---	---	---	---	---	**0.281**	**0.237**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.005
	June-2023	---	---	---	---	---	---	---	---	---	**0.251**	---	**0.191**	---	**0.272**	---	---	---	---	---	---	---	---	---	---	0.002	0.005
	July-2023	---	**0.308**	---	---	---	---	---	**0.535**	---	---	---	---	---	---	---	---	---	**0.231**	---	---	---	---	**0.215**	**0.0265**	0.0004	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0276**	0.002	0.005
		---	---	---	---	---	**0.606**	---	**0.449**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.259**	---	0.004	0.01
	September-2023	---	---	---	**1.17**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.234**	---	---	---	---	---	---	0.004	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.144**	---	---	**0.194**	---	---	---	0.0004	0.001
		---	---	---	---	---	---	**0.273**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0008	0.002
	November-2023	---	**0.391**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0	0.003
		---	---	---	---	**0.51**	---	---	---	---	---	---	---	---	---	---	---	---	**0.251**	---	---	**0.403**	---	---	---	0.003	0.003
		---	---	---	**1.04**	---	---	**0.402**	---	---	**0.246**	---	---	**0.343**	---	---	---	---	---	---	---	---	---	---	**0.222**	0.004	0.01
	December-2023	---	---	---	**1.34**	---	---	---	---	---	---	---	---	---	---	---	---	**0.259**	---	---	---	---	---	---	---	0.002	0.005
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.219**	---	---	---	---	---	---	0.0008	0.002
	January-2024	---	---	**0.17**	---	---	---	---	---	---	**0.193**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.128**	0.002	0.005
	February-2024	---	---	**0.23**	---	**0.272**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.203**	---	**0.336**	---	---	0.002	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0759**	0.0008	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.414**	---	---	0.002	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.36**	---	---	---	---	**0.245**	---	---	---	---	---	---	0.0004	0.001
		---	---	---	**0.836**	---	---	---	---	---	---	---	---	---	---	---	---	**0.228**	---	---	---	---	---	---	---	0.004	0.01
	May-2024	---	---	---	---	---	---	---	---	---	**0.268**	---	---	---	---	---	---	---	**0.226**	---	**0.183**	**0.352**	---	---	**0.11**	0.004	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.226**	---	**0.188**	---	---	---	**0.16**	0.004	0.01
	July-2024	---	---	---	---	---	---	---	---	---	**0.252**	**0.246**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.005
	August-2024	---	---	---	---	---	**0.549**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.185**	---	---	**0.233**	---	0.004	0.01
	September-2024	---	---	---	**0.948**	---	**0.541**	---	---	---	---	---	---	---	---	---	---	**0.228**	---	---	---	---	---	---	---	0.004	0.01
	October-2024	**0.0873**	**0.246**	---	**0.929**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.349**	---	---	---	---	---	0.004	0.01
	November-2024	**0.0797**	**0.237**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.01
	December-2024	---	---	---	**0.773**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.184**	0.004	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00941**	---	---	---	---	0.003	0.01
	February-2025	---	**0.21**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.196**	---	---	---	---	0.004	0.01
		---	---	---	---	---	---	---	---	---	---	---	**0.0992**	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	March-2025	---	**0.248**	---	---	---	---	---	---	---	---	**0.199**	---	---	---	---	---	**0.155**	---	---	---	---	---	---	---	0.008	0.01

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Copper	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	0.016	0.02
	December-2022	---	ND	---	ND	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	0.016	0.02
	January-2023	---	ND	---	---	---	---	---	---	**0.0127**	**0.0256**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	0.008	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00365**	---	---	---	---	---	---	---	0.0003	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.008	0.01
	April-2023	---	---	---	---	---	---	---	---	**0.00664**	---	**0.00767**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0003	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0015	0.005
	June-2023	---	---	---	---	---	---	---	---	---	**0.00154 J**	---	**0.00362 J**	---	**0.00269 J**	---	---	---	---	---	---	---	---	---	---	0.0015	0.005
	July-2023	---	**0.00124**	---	---	---	---	---	**0.00163**	---	---	---	---	---	---	---	---	---	**0.00811**	---	---	---	---	ND	**0.0027**	0.0003	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0015	0.005
		---	---	---	---	---	**0.00343 J**	---	**0.0176**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.003	0.01
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00407 J**	---	---	---	---	---	---	0.003	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00361**	---	---	**0.000609 J**	---	---	---	0.0003	0.001
		---	---	---	---	---	---	**0.00806**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0006	0.002
	November-2023	---	**0.00607**	---	**0.00352**	**0.0212**	---	**0.00756**	---	---	ND	---	---	**0.00341**	---	---	---	---	**0.00387**	---	---	ND	---	---	ND	0.003	0.003
	December-2023	---	---	---	**0.00184**	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0015	0.0015
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0034**	---	---	---	---	---	---	0.0006	0.002
	January-2024	---	---	ND	---	---	---	---	---	---	**0.019**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0015	0.005
	February-2024	---	---	ND	---	**0.00201**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	0.0015	0.002
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00115 J**	0.0006	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00184 J**	---	---	0.0015	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.00443**	---	---	---	---	**0.004**	---	---	---	---	---	---	0.0003	0.001
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.003	0.004
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	**0.00486 J**	---	**0.00688 J**	ND	---	---	ND	0.003	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00409 J**	---	ND	---	---	---	ND	0.003	0.01
	July-2024	---	---	---	---	---	---	---	---	---	**0.398**	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0015	0.005
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	0.003	0.01
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.003	0.01
	October-2024	**0.00612 J**	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00306 J**	---	---	---	---	---	0.003	0.01
	November-2024	**0.00569 J**	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.003	0.01
	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.003	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.035 J**	---	---	---	---	0.01	0.01
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00381 J**	---	---	---	---	0.003	0.01
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	March-2025	---	**0.0087 J**	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	**0.0142**	---	---	---	---	---	---	---	0.008	0.01
Lead	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	**0.017 J**	---	---	---	---	---	---	---	---	---	0.012	0.02
	December-2022	---	ND	---	**0.0381**	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	0.012	0.02
	January-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	0.006	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.006**	---	---	---	---	---	---	---	0.001	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.006	0.01
	April-2023	---	---	---	---	---	---	---	---	**0.0022**	---	**0.0067**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	**0.0069**	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	July-2023	---	**0.0014**	---	---	---	---	---	**0.019**	---	---	---	---	---	---	---	---	---	**0.0092**	---	---	---	---	ND	**0.0017**	0.001	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.005	0.005
		---	---	---	---	---	**0.014**	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.013**	---	0.01	0.01
	September-2023	---	---	---	**0.12**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.01	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0036**	---	---	**0.0034**	---	---	---	0.001	0.001
		---	---	---	---	---	---	**0.0077**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.002
	November-2023	---	ND	---	**0.13**	**0.0046**	---	**0.014**	---	---	ND	---	---	ND	---	---	---	---	**0.0032**	---	---	**0.0043**	---	---	ND	0.003	0.003
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0043**	---	---	---	---	---	---	0.002	0.002
		---	---	---	**0.16**	---	---	---	---	---	---	---	---	---	---	---	---	**0.002**	---	---	---	---	---	---	---	0.0015	0.0015
	January-2024	---	---	ND	---	---	---	---	---	---	**0.0081**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.005	0.005
	February-2024	---	---	**0.0065**	---	**0.01**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.051**	---	**0.012**	---	---	0.001	0.002
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.002	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.02**	---	---	0.005	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.0013**	---	---	---	---	**0.0025**	---	---	---	---	---	---	0.001	0.001
		---	---	---	**0.13**	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.004	0.004
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	**0.11**	ND	---	---	ND	0.01	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**0.024**	---	---	---	ND	0.01	0.01
	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	August-2024	---	---	---	---	---	**0.031**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.027**	---	---	ND	---	0.01	0.01
	September-2024	---	---	---	**0.098**	---	**0.057**	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.01	0.01
	October-2024	ND	ND	---	**0.12**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.01	0.01
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.01
	December-2024	---	---	---	**0.18**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.01	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.002	0.002
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.02**	---	---	---	---	0.01	0.01
		---	---	---	---	---	---	---	---	---	---	---	**0.0561**	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	March-2025	---	**0.0113**	---	---	---	---	---	---	---	---	**0.0816**	---	---	---	---	---	**0.0229**	---	---	---	---	---	---	---	0.006	0.01

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Mercury	November-2022	---	---	---	---	---	---	---	---	---	---	---	**0.00169**	---	---	**0.00053**	---	---	---	---	---	---	---	---	---	0.0004	0.0004
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0008	0.0008
	December-2022	---	**0.00051**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004
		---	---	---	---	---	---	---	**0.00118**	---	ND	**0.00588**	---	---	---	---	**0.0048**	ND	---	---	---	---	---	---	---	0.0008	0.0008
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.004
	January-2023	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	0.0004	0.0004
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.004
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0004	0.0004
	March-2023	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004
	April-2023	---	---	---	---	---	---	---	---	---	---	**0.00128**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002
		---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	0.004	0.004
	July-2023	---	**0.000306**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	0.0002	0.0002
		---	---	---	---	---	---	---	**0.0107**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.001	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.001	0.001
		---	---	---	---	---	**0.00312**	---	**0.00397**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.002	0.002
	September-2023	---	---	---	**0.00503**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.002	0.002
	October-2023	---	---	---	---	---	---	**0.00165**	---	---	---	---	---	---	---	---	---	---	ND	---	---	**0.00055**	---	---	---	0.0004	0.0004
	November-2023	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.0000002	0.0000002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.0000004	0.0000004
		---	---	---	**0.00576**	**0.00606**	---	**0.00578**	---	---	ND	---	---	---	---	---	---	---	---	---	---	**0.00954**	---	---	ND	0.000004	0.000004
	December-2023	---	---	---	**0.00484**	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.001	0.001
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.0004	0.0004
	January-2024	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.001	0.001
	February-2024	---	---	**0.00376**	---	**0.0115**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00238**	---	**0.00284**	---	---	0.001	0.001
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00124**	0.0004	0.0004
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	0.001	0.001
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.000201**	---	---	---	---	ND	---	---	---	---	---	---	0.0002	0.0002
		---	---	---	**0.00382**	---	---	---	---	---	---	---	---	---	---	---	---	**0.00151**	---	---	---	---	---	---	---	0.0008	0.0008
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	---	---	ND	0.002	0.002
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**0.0119**	---	---	---	ND	0.002	0.002
	July-2024	---	---	---	---	---	---	---	---	---	ND	**0.00104**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.001
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00671**	---	---	ND	---	0.002	0.002
	September-2024	---	---	---	**0.00244**	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.002	0.002
	October-2024	ND	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00254**	---	---	---	---	---	0.002	0.002
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.002
	December-2024	---	---	---	**0.00213**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.002	0.002
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.1047**	---	---	---	---	0.01	0.01
	February-2025	---	---	---	---	---	---	---	---	---	---	---	**0.00011**	---	---	---	---	---	---	---	---	---	---	---	---	0.000009	0.000009
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.002	0.002
	March-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.001	0.001
		---	---	---	---	---	---	---	---	---	---	**0.0146**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.002

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Nickel	November-2022	---	---	---	---	---	---	---	---	---	**0.0866**	---	**0.1344**	---	---	**0.173**	---	---	---	---	---	---	---	---	---	0.014	0.02
	December-2022	---	**0.1722**	---	**0.5025**	---	---	---	**0.2989**	---	**0.1299**	**0.287**	---	---	---	---	**0.1853**	**0.346**	---	---	---	---	---	---	---	0.014	0.02
	January-2023	---	**0.1074**	---	---	---	---	---	---	**0.1442**	**0.0407**	---	---	---	---	**0.0769**	---	---	---	---	---	---	---	---	---	0.007	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.1726**	---	---	---	---	---	---	---	0.001	0.001
	March-2023	---	---	---	---	---	---	---	---	**0.1254**	**0.1033**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.007	0.01
	April-2023	---	---	---	---	---	---	---	---	**0.1143**	---	**0.1732**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.001
	May-2023	---	**0.113**	---	---	---	---	---	---	**0.09726**	**0.05657**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	June-2023	---	---	---	---	---	---	---	---	---	**0.05978**	---	**0.05892**	---	**0.07161**	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	July-2023	---	**0.09872**	---	---	---	---	---	**0.08332**	---	---	---	---	---	---	---	---	---	**0.1576**	---	---	---	---	**0.03074**	**0.01403**	0.001	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.02029**	0.005	0.005
		---	---	---	---	---	**0.1457**	---	**0.09673**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0513**	---	0.01	0.01
	September-2023	---	---	---	**0.5152**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.2387**	---	---	---	---	---	---	0.01	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.2019**	---	---	**0.09206**	---	---	---	0.001	0.001
		---	---	---	---	---	---	**0.104**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.002
	November-2023	---	**0.1178**	---	**0.4227**	**0.1242**	---	**0.07791**	---	---	**0.05944**	---	---	**0.1493**	---	---	---	---	**0.2492**	---	---	**0.1332**	---	---	**0.05277**	0.01	0.01
	December-2023	---	---	---	**0.6091**	---	---	---	---	---	---	---	---	---	---	---	---	**0.1447**	---	---	---	---	---	---	---	0.005	0.005
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.2127**	---	---	---	---	---	---	0.002	0.002
	January-2024	---	---	**0.06308**	---	---	---	---	---	---	**0.04911**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0326**	0.005	0.005
	February-2024	---	---	**0.07945**	---	**0.07013**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.09174**	---	**0.06183**	---	---	0.005	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.02232**	0.002	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.08678**	---	0.005	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.1319**	---	---	---	---	**0.196**	---	---	---	---	---	---	0.001	0.001
		---	---	---	**0.3136**	---	---	---	---	---	---	---	---	---	---	---	---	**0.1139**	---	---	---	---	---	---	---	0.01	0.01
	May-2024	---	---	---	---	---	---	---	---	---	**0.0538**	---	---	---	---	---	---	---	**0.2065**	---	**0.07835**	**0.09235**	---	---	**0.02884**	0.01	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.211**	---	**0.07664**	---	---	---	**0.03166**	0.01	0.01
	July-2024	---	---	---	---	---	---	---	---	---	**0.1917**	**0.03634**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	August-2024	---	---	---	---	---	**0.1008**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0822**	---	---	**0.02104**	---	0.01	0.01
	September-2024	---	---	---	**0.396**	---	**0.1138**	---	---	---	---	---	---	---	---	---	---	**0.08772**	---	---	---	---	---	---	---	0.01	0.01
	October-2024	**0.07251**	**0.115**	---	**0.3536**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.05751**	---	---	---	---	---	0.01	0.01
	November-2024	**0.03879**	**0.09665**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.01
	December-2024	---	---	---	**0.2964**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.03528**	0.01	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.0085	0.01
	February-2025	---	**0.09275**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.1021**	---	---	---	---	0.01	0.01
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	---	---	**0.0933**	---	---	---	---	---	---	---	---	**0.0375**	---	---	---	---	---	**0.0818**	---	---	---	---	---	---	---	0.007	0.01

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Selenium	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	0.08	0.1
	December-2022	---	ND	---	ND	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	0.08	0.1
	January-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	0.04	0.05
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00199**	---	---	---	---	---	---	---	0.00085	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.04	0.05
	April-2023	---	---	---	---	---	---	---	---	**0.00189**	---	**0.00185**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00085	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	**0.00569**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00425	0.005
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	0.00425	0.005
	July-2023	---	**0.00101**	---	---	---	---	---	**0.00331**	---	---	---	---	---	---	---	---	---	**0.00116**	---	---	---	---	**0.00251**	ND	0.00085	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.00425	0.005
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.0085	0.01
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.0085	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00186**	---	---	**0.0044**	---	---	---	0.00085	0.001
		---	---	---	---	---	---	**0.00332**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0017	0.002
	November-2023	---	ND	---	**0.00425**	**0.00314**	---	**0.00315**	---	---	ND	---	---	ND	---	---	---	---	ND	---	---	**0.0032**	---	---	ND	0.003	0.003
	December-2023	---	---	---	**0.00785**	---	---	---	---	---	---	---	---	---	---	---	---	**0.00253**	---	---	---	---	---	---	---	0.0015	0.0015
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00215**	---	---	---	---	---	---	0.0017	0.002
	January-2024	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.00425	0.005
	February-2024	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00571**	---	**0.00651**	---	---	0.00425	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0017	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00627**	---	---	0.00425	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	**0.000929 J**	---	---	---	---	---	---	0.00085	0.001
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0085	0.01
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	---	---	ND	0.0085	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	ND	0.0085	0.01
	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00425	0.005
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	0.0085	0.01
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0085	0.01
	October-2024	ND	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.0085	0.01
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0085	0.01
	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0085	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.0006	0.01
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.0085	0.01
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	2.32	2.5
	March-2025	---	ND	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.04	0.05
Silver	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	0.01	0.02
	December-2022	---	ND	---	**0.0187 J**	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	0.01	0.02
	January-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	0.005	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.00006	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.01
	April-2023	---	---	---	---	---	---	---	---	ND	---	**0.00011 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00006	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0003	0.005
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	0.0003	0.005
	July-2023	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	ND	0.00006	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0003	0.005
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.0006	0.01
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.0006	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	---	---	0.00006	0.001
		---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00012	0.002
	November-2023	---	ND	---	ND	ND	---	ND	---	---	ND	---	---	ND	---	---	---	---	ND	---	---	ND	---	---	ND	0.0006	0.01
	December-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.00025	0.001
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.00012	0.002
	January-2024	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0003	0.005
	February-2024	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	0.0003	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.00012	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	0.0003	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	0.00006	0.001
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0004	0.001
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	---	---	ND	0.0006	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	ND	0.0006	0.01
	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0003	0.0005
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	0.0006	0.01
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0006	0.01
	October-2024	ND	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.0006	0.01
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0006	0.01
	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0006	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.789**	---	---	---	---	0.025	0.05
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.0006	0.01
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	0.00232	0.0025
	March-2025	---	ND	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.005	0.01

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Zinc	November-2022	---	---	---	---	---	---	---	---	---	ND	---	**0.032**	---	---	**0.694**	---	---	---	---	---	---	---	---	---	0.02	0.02
	December-2022	---	**0.208**	---	**29.7**	---	---	---	**0.162**	---	**0.0686**	**0.75**	---	---	---	---	**0.364**	**0.286**	---	---	---	---	---	---	---	0.02	0.02
	January-2023	---	**0.133**	---	---	---	---	---	---	**0.15**	**0.074**	---	---	---	---	**0.0752**	---	---	---	---	---	---	---	---	---	0.01	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0851**	---	---	---	---	---	---	---	0.0025	0.005
	March-2023	---	---	---	---	---	---	---	---	**0.0689**	**0.0538**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.01
	April-2023	---	---	---	---	---	---	---	---	**0.0539**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
		---	---	---	---	---	---	---	---	---	---	**0.414**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.025	0.05
	May-2023	---	**0.079**	---	---	---	---	---	---	**0.0635**	**0.0519**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0125	0.025
	June-2023	---	---	---	---	---	---	---	---	---	**0.0538**	---	**0.0253**	---	**0.945**	---	---	---	---	---	---	---	---	---	---	0.0125	0.025
	July-2023	---	**0.0488**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0714**	---	---	---	---	**0.354**	**0.0782**	0.0025	0.005
		---	---	---	---	---	---	---	**2.03**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0125	0.025
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.112**	0.0125	0.025
		---	---	---	---	---	---	---	**1.71**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.914**	---	0.025	0.05
		---	---	---	---	---	**5.92**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.05	0.1
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0788**	---	---	---	---	---	---	0.025	0.05
		---	---	---	**45**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0622**	---	---	---	---	---	---	0.0025	0.005
		---	---	---	---	---	---	**0.203**	---	---	---	---	---	---	---	---	---	---	---	---	---	**633**	---	---	---	0.005	0.01
	November-2023	---	**0.0471 J**	---	---	**0.0534**	---	**0.74**	---	---	**0.053**	---	---	**0.0618**	---	---	---	---	**0.0722**	---	---	**0.845**	---	---	**0.0313 J**	0.025	0.05
		---	---	---	**30.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	December-2023	---	---	---	**52.7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.061**	---	---	---	---	---	---	0.005	0.01
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0462**	---	---	---	---	---	---	---	0.025	0.025
	January-2024	---	---	**0.117**	---	---	---	---	---	---	**0.0974**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0261**	0.0125	0.025
	February-2024	---	---	**0.0879**	---	**0.0554**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.475**	---	**0.809**	---	---	0.0125	0.025
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0342**	0.005	0.01
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.09**	---	---	0.0125	0.025
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.0565**	---	---	---	---	**0.0539**	---	---	---	---	---	---	0.0025	0.005
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0394**	---	---	---	---	---	---	---	0.02	0.02
		---	---	---	**24.7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	May-2024	---	---	---	---	---	---	---	---	---	**0.165**	---	---	---	---	---	---	---	**0.0568**	---	**1.3**	**1.43**	---	---	**0.0812**	0.025	0.05
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0505**	---	**0.498**	---	---	---	ND	0.025	0.05
	July-2024	---	---	---	---	---	---	---	---	---	**0.104**	**0.0451**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0125	0.025
	August-2024	---	---	---	---	---	**3.49**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.512**	---	---	**0.417**	---	0.025	0.05
	September-2024	---	---	---	**0.212**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
		---	---	---	---	---	**3.68**	---	---	---	---	---	---	---	---	---	---	**0.111**	---	---	---	---	---	---	---	0.025	0.05
	October-2024	**0.266**	**0.077**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.342**	---	---	---	---	---	0.025	0.05
		---	---	---	**20.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	November-2024	**0.0325 J**	**0.0367 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.025	0.05
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0696**	0.025	0.05
		---	---	---	**14.3**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.002	0.002
	February-2025	---	**0.0405 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.527**	---	---	---	---	0.025	0.05
		---	---	---	---	---	---	---	---	---	---	---	**0.136**	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	March-2025	---	**0.0415**	---	---	---	---	---	---	---	---	**0.155**	---	---	---	---	---	**0.0277**	---	---	---	---	---	---	---	0.01	0.01

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
VOLATILE FATTY ACIDS (mg/L)																											
Acetic Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	**1600**	---	---	---	---	---	---	---	---	---	---	---	---	25	100
		---	---	---	---	---	---	---	---	---	**3500**	---	---	---	---	**150 J**	---	---	---	---	---	---	---	---	---	62	250
	December-2022	---	**1800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	62	250
	January-2023	---	ND	---	---	---	---	---	---	ND	**4400**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	500
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	500
	March-2023	---	---	---	---	---	---	---	---	ND	**640**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500
	April-2023	---	---	---	---	---	---	---	---	**1200**	---	**520**	---	---	---	---	---	---	---	---	---	---	---	---	---	370	500
	May-2023	---	**990**	---	---	---	---	---	---	**1800**	**3000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	370	500
	June-2023	---	---	---	---	---	---	---	---	---	**5900**	---	**4100**	---	**5000**	---	---	---	---	---	---	---	---	---	---	750	1000
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	150	200
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	370	500
		---	---	---	---	---	---	---	**6100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**750**	---	750	1000
	August-2023	---	---	---	---	---	**3300**	---	**5300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4200**	ND	---	500
	September-2023	---	---	---	**7400**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	370	500
	October-2023	---	---	---	---	---	---	**3200**	---	---	---	---	---	---	---	---	---	---	**720**	---	---	**4100**	---	---	---	370	500
	November-2023	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	**4160**	250	500
		---	---	---	---	**4950**	---	**6650**	---	---	**5350**	---	---	---	---	---	---	---	---	---	---	**7300**	---	---	---	500	1000
		---	---	---	**9900**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	2000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**660**	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	250
		---	---	---	**11200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000
	January-2024	---	---	**4410**	---	---	---	---	---	---	**5290**	---	---	---	---	---	---	---	---	---	---	---	---	---	**3080**	---	250
	February-2024	---	---	**3130**	---	**3530**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3530**	---	**6770**	---	---	---	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2700**	---	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**46000**	---	---	---	1000
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1670**	---	---	---	---	---	---	---	---	250
		---	---	---	**9170**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**4370**	---	---	---	**221**	---	250
		---	---	---	---	---	---	---	---	---	**4950**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**6530**	---	---	---	---	1250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3890**	---	---	---	**4450**	---	500
	July-2024	---	---	---	---	---	---	---	---	---	**6280**	**6180**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	August-2024	---	---	---	---	---	**5210**	---	---	---	---	---	---	---	---	---	---	---	---	---	**3500**	---	---	**5540**	---	---	500
	September-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2950**	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	**5970**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500
		---	---	---	**10400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
		---	**260**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4780**	---	---	---	---	---	---	250
		---	---	---	**9410**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	November-2024	**960**	**230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**10000**	---	200
		---	---	---	**17000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3500**	---	---	---	---	---	100

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Butyric Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	**430**	---	---	---	---	---	---	---	---	---	---	---	---	12	100
		---	---	---	---	---	---	---	---	---	**830**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	29	250
	December-2022	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	29	250
	January-2023	---	ND	---	---	---	---	---	---	ND	**1800**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	500
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	500
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500
	April-2023	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	330	500
	May-2023	---	ND	---	---	---	---	---	---	ND	**1200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	330	500
	June-2023	---	---	---	---	---	---	---	---	---	**2500**	---	**1500**	---	**2900**	---	---	---	---	---	---	---	---	---	---	650	1000
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	130	200
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	330	500
		---	---	---	---	---	---	---	**2800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**650**	---	650	1000
	August-2023	---	---	---	---	---	**1400**	---	**1700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1600**	ND	---	500
	September-2023	---	---	---	**3100**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	330	500
	October-2023	---	---	---	---	---	---	**1200**	---	---	---	---	---	---	---	---	---	---	ND	---	---	**2000**	---	---	---	330	500
	November-2023	---	ND	---	---	**1670**	---	**1760**	---	---	**1370**	---	---	ND	---	---	---	---	ND	---	---	**2730**	---	---	**740**	250	500
		---	---	---	**3420**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**336**	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	250
		---	---	---	**3390**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000
	January-2024	---	---	**813**	---	---	---	---	---	---	**1230**	---	---	---	---	---	---	---	---	---	---	---	---	---	**594**	---	250
	February-2024	---	---	**583**	---	**1170**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1180**	---	**2980**	---	---	---	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**500**	---	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2100**	---	---	---	200
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	100
		---	---	---	**3120**	---	---	---	---	---	---	---	---	---	---	---	---	**444**	---	---	---	---	---	---	---	---	250
	May-2024	---	---	---	---	---	---	---	---	---	**1190**	---	---	---	---	---	---	---	ND	---	**984**	**2370**	---	---	**448**	---	250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**1190**	---	---	---	**1030**	---	100
	July-2024	---	---	---	---	---	---	---	---	---	**2400**	**2360**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
	August-2024	---	---	---	---	---	**1630**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1180**	---	---	**1930**	---	---	500
	September-2024	---	---	---	**3550**	---	**2060**	---	---	---	---	---	---	---	---	---	---	**670**	---	---	---	---	---	---	---	---	250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1630**	---	---	---	---	---	---	250
		---	---	---	**3070**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	November-2024	**480**	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2200**	---	200
		---	---	---	**4600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1100**	---	---	---	---	---	100
Lactic Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	11	100
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	27	250
	December-2022	---	**90 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	27	250
	November-2023	---	ND	---	---	**968**	---	**1800**	---	---	**969**	---	---	ND	---	---	---	---	ND	---	---	**1170**	---	---	**324**	250	500
		---	---	---	**6030**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	250
		---	---	---	**9050**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000
	January-2024	---	---	**629**	---	---	---	---	---	---	**979**	---	---	---	---	---	---	---	---	---	---	---	---	---	**256**	---	250
	February-2024	---	---	**334**	---	**180**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**756**	---	**1650**	---	---	---	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	200
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250
		---	---	---	**5120**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	May-2024	---	---	---	---	---	---	---	---	---	**1160**	---	---	---	---	---	---	---	ND	---	**1170**	**1730**	---	---	ND	---	250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**706**	---	---	---	**246**	---	100
	July-2024	---	---	---	---	---	---	---	---	---	**1220**	**1210**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
	August-2024	---	---	---	---	---	**2270**	---	---	---	---	---	---	---	---	---	---	---	---	---	**593**	---	---	**959**	---	---	500
	September-2024	---	---	---	---	---	**2550**	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250
		---	---	---	**5510**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2590**	---	---	---	---	---	---	250
		---	---	---	**5630**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**730**	---	200
		---	---	---	**5300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**480**	---	---	---	---	---	100

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	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
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	140	200
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	340	500
		---	---	---	---	---	---	---	**3100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**680**	---	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
		---	---	---	**2280**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000
	January-2024	---	---	**1680**	---	---	---	---	---	---	**1970**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1030**	---	250
	February-2024	---	---	**1210**	---	**1510**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1980**	---	**2900**	---	---	---	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**570**	---	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2100**	---	---	---	200
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	100
		---	---	---	**2300**	---	---	---	---	---	---	---	---	---	---	---	---	**1150**	---	---	---	---	---	---	---	---	250
	May-2024	---	---	---	---	---	---	---	---	---	**1730**	---	---	---	---	---	---	---	ND	---	**1640**	**2770**	---	---	**647**	---	250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**1870**	---	---	---	**1400**	---	100
	July-2024	---	---	---	---	---	---	---	---	---	**2500**	**2470**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
	August-2024	---	---	---	---	---	**1320**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1920**	---	---	**2040**	---	---	500
	September-2024	---	---	---	**2640**	---	**1690**	---	---	---	---	---	---	---	---	---	---	**1300**	---	---	---	---	---	---	---	---	250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
		---	**275**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1470**	---	---	---	---	---	---	250
	November-2024	**1300**	**310**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3300**	---	200
		---	---	---	**4200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1800**	---	---	---	---	---	100
Pyruvic Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	**46 J**	---	---	---	---	---	---	---	---	---	---	---	---	12	100
		---	---	---	---	---	---	---	---	---	**98 J**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	30	250
	December-2022	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	250
	November-2023	---	ND	---	---	ND	---	ND	---	---	ND	---	---	ND	---	---	---	---	ND	---	---	ND	---	---	ND	250	500
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	250
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000
	January-2024	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	250
	February-2024	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**130**	---	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**460**	---	---	---	200
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	100
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	---	---	ND	---	250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**113**	---	---	---	ND	---	100
	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	---	500
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100
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		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**410**	---	200
		---	---	---	**460**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	100

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
VOLATILE ORGANIC COMPOUNDS (ug/L)																											
2-Butanone (MEK)	November-2022	---	---	---	---	---	---	---	---	---	**3510**	---	---	---	---	**1140**	---	---	---	---	---	---	---	---	---	30	100
		---	---	---	---	---	---	---	---	---	---	---	**15600**	---	---	---	---	---	---	---	---	---	---	---	---	300	1000
	December-2022	---	**3140**	---	---	---	---	---	---	---	---	**3390**	---	---	---	---	---	---	---	---	---	---	---	---	---	30	100
		---	---	---	**26800**	---	---	---	**27700**	---	**5670**	---	---	---	---	---	**21700**	**7150**	---	---	---	---	---	---	---	300	1000
	January-2023	---	**3480**	---	---	---	---	---	---	**632**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	100
		---	---	---	---	---	---	---	---	---	**7840**	---	---	---	---	**5470**	---	---	---	---	---	---	---	---	---	300	1000
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**14400**	---	---	---	---	---	---	---	600	2000
	March-2023	---	---	---	---	---	---	---	---	**257**	**2770**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	100
	April-2023	---	---	---	---	---	---	---	---	**3420**	---	**5530**	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
	May-2023	---	**5360**	---	---	---	---	---	---	**5970**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	**13600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
	June-2023	---	---	---	---	---	---	---	---	---	**13800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
		---	---	---	---	---	---	---	---	---	---	---	**20100**	---	**22600**	---	---	---	---	---	---	---	---	---	---	1500	5000
	July-2023	---	**5860**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	60	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**13500**	750	2500
		---	---	---	---	---	---	---	**38400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**31600**	---	3000	10000
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**5950**	60	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**7350**	---	150	500
		---	---	---	---	---	---	---	**3000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
		---	---	---	---	---	**25600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1500	5000
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**439**	---	---	---	---	---	---	60	200
		---	---	---	**17500**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**211**	---	---	---	---	---	---	15	50
		---	---	---	---	---	---	**17800**	---	---	---	---	---	---	---	---	---	---	---	---	---	**33400**	---	---	---	1500	5000
	November-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**78.8 J**	---	---	---	---	---	---	30	100
		---	---	---	---	---	---	**17700**	---	---	**10600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	**3990**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	300	1000
		---	---	---	**25700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
		---	---	---	---	**22300**	---	---	---	---	---	---	---	**17600**	---	---	---	---	---	---	---	**26700**	---	---	**31200**	1500	5000
	December-2023	---	---	---	**13700**	---	---	---	---	---	---	---	---	---	---	---	---	**7060**	ND	---	---	---	---	---	---	150	500
	January-2024	---	---	---	---	---	---	---	---	---	**10800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	**34700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**28900**	1500	5000
	February-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**12700**	---	---	---	---	150	500
		---	---	**30500**	---	**28900**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**17400**	---	---	1500	5000
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**11700**	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**25200**	1500	5000
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	30	100
		---	---	---	---	---	---	---	---	---	---	---	---	**14600**	---	---	---	---	---	---	---	---	---	---	---	750	2500
		---	---	---	**37200**	---	---	---	---	---	---	---	---	---	---	---	---	**28700**	---	---	---	---	---	---	---	1500	5000
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	60	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**7340**	---	---	---	**18600**	150	500
		---	---	---	---	---	---	---	---	---	**25700**	---	---	---	---	---	---	---	---	---	---	**32700**	---	---	---	1500	5000
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	60	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**13800**	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**33200**	15000	25000
	July-2024	---	---	---	---	---	---	---	---	---	**15600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	**25400**	---	---	---	---	---	---	---	---	---	---	---	---	---	1500	5000
	August-2024	---	---	---	---	---	**17700**	---	---	---	---	---	---	---	---	---	---	---	---	---	**7260**	---	---	**17900**	---	150	500
	September-2024	---	---	---	**19000**	---	**16600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**32200**	---	---	---	---	---	---	---	1500	5000
	October-2024	**28.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	10
		---	**2770**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	60	200
		---	---	---	**13000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**10800**	---	---	---	---	---	150	500
	November-2024	---	**4140**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	60	200
		28800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
	December-2024	---	---	---	**658**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**41800**	600	2000
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**17000**	---	---	---	---	1500	5000
	February-2025	---	**6930**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	60	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23900**	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**2540**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	**30600**	---	---	---	---	---	**33700**	---	---	---	---	---	---	---	1500	5000

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Acetone	November-2022	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4420**	---	---	---	---	---	---	---	---	---	70	100
		---	---	---	---	---	---	---	---	---	**16100**	---	**38300**	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
	December-2022	---	---	---	---	---	---	---	---	---	**15600**	**5170**	---	---	---	---	---	**9800**	---	---	---	---	---	---	---	700	1000
		---	**8500**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	**53100**	---	---	---	**49900**	---	---	---	---	---	---	---	**45600**	---	---	---	---	---	---	---	---	3500	5000
	January-2023	---	---	---	---	---	---	---	---	**1530**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	70	100
		---	---	---	---	---	---	---	---	---	**22200**	---	---	---	---	**14000**	---	---	---	---	---	---	---	---	---	700	1000
		---	**8130**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23900**	---	---	---	---	---	---	---	1400	2000
	March-2023	---	---	---	---	---	---	---	---	**375**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	70	100
		---	---	---	---	---	---	---	---	---	**6810**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
	April-2023	---	---	---	---	---	---	---	---	**8290**	---	**7560**	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	May-2023	---	**10700**	---	---	---	---	---	---	**11700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	350	500
		---	---	---	---	---	---	---	---	---	**29600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	June-2023	---	---	---	---	---	---	---	---	---	**29600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	---	---	---	---	---	---	---	---	**61800**	---	**50800**	---	---	---	---	---	---	---	---	---	---	3500	5000
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1180**	---	---	---	---	---	---	140	200
		---	**9780**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**11600**	1750	2500
		---	---	---	---	---	---	---	**77200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**69700**	---	7000	10000
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**20900**	700	1000
		---	---	---	---	---	---	---	**18700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	---	---	**72500**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**87700**	---	3500	5000
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**188 J**	---	---	---	---	---	---	140	200
		---	---	---	**40100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**79**	---	---	---	---	---	---	35	50
		---	---	---	---	---	---	**66900**	---	---	---	---	---	---	---	---	---	---	---	---	---	**92900**	---	---	---	3500	5000
	November-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**104**	---	---	---	---	---	---	70	100
		---	**5560**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
		---	---	---	**64700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	---	**43100**	---	**61100**	---	---	**36800**	---	---	**32800**	---	---	---	---	---	---	---	**53900**	---	---	**67800**	3500	5000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	140	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	350	500
		---	---	---	**44300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	January-2024	---	---	**96600**	---	---	---	---	---	---	**22800**	---	---	---	---	---	---	---	---	---	---	---	---	**47300**	---	3500	5000
	February-2024	---	---	**81600**	---	**70200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**45600**	---	**63100**	---	---	3500	5000
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**50800**	---	**57600**	3500	5000
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	70	100
		---	---	---	---	---	---	---	---	---	---	---	---	**24300**	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	**95300**	---	---	---	---	---	---	---	---	---	---	---	---	**55200**	---	---	---	---	---	---	---	3500	5000
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	140	200
		---	---	---	---	---	---	---	---	---	**63200**	---	---	---	---	---	---	---	---	---	**39000**	**91300**	---	---	**33300**	3500	5000
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	140	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**94400**	---	---	---	**84400**	35000	50000
	July-2024	---	---	---	---	---	---	---	---	---	**32200**	**52600**	---	---	---	---	---	---	---	---	---	---	---	---	---	3500	5000
	August-2024	---	---	---	---	---	**57700**	---	---	---	---	---	---	---	---	---	---	---	---	---	**36000**	---	---	**81500**	---	3500	5000
	September-2024	---	---	---	**59800**	---	**44500**	---	---	---	---	---	---	---	---	---	---	**69300**	---	---	---	---	---	---	---	3500	5000
	October-2024	**30.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7	10
		---	**5230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	140	200
		---	---	---	**49800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**40700**	---	---	---	---	---	3500	5000
	November-2024	---	**8680**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	350	500
		44400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	December-2024	---	---	---	**51700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**69700**	1400	2000
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**65300**	---	---	---	---	3500	5000
	February-2025	---	**9820**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**46400**	---	---	---	---	3500	5000
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	49000	98000
	March-2025	---	**4460**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	350	500
		---	---	---	---	---	---	---	---	---	---	**72600**	---	---	---	---	---	**86400**	---	---	---	---	---	---	---	3500	5000

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Benzene	November-2022	---	---	---	---	---	---	---	---	---	**7.4 J**	---	**2860**	---	---	**50.4**	---	---	---	---	---	---	---	---	---	4	10
	December-2022	---	**301**	---	**2960**	---	---	---	---	---	**6.3 J**	**622**	---	---	---	---	**1750**	**179**	---	---	---	---	---	---	---	4	10
		---	---	---	---	---	---	---	**6550**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	100
	January-2023	---	**240**	---	---	---	---	---	---	**28.7**	**1620**	---	---	---	---	**167**	---	---	---	---	---	---	---	---	---	4	10
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1370**	---	---	---	---	---	---	---	4	10
	March-2023	---	---	---	---	---	---	---	---	**1540**	**727**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	10
	April-2023	---	---	---	---	---	---	---	---	**3740**	---	**320**	---	---	---	---	---	---	---	---	---	---	---	---	---	4	10
	May-2023	---	**814**	---	---	---	---	---	---	**4890**	**3370**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	50
	June-2023	---	---	---	---	---	---	---	---	---	**2630**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	**1400**	---	**1590**	---	---	---	---	---	---	---	---	---	---	20	50
	July-2023	---	**824**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**80.8**	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	**4050**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1420**	---	20	50
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**11800**	100	250
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**379**	8	20
		---	---	---	---	---	**2320**	---	**168**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	20	50
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**193**	---	---	---	---	---	---	8	20
		---	---	---	**468**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**399**	---	---	---	---	---	---	2	5
		---	---	---	---	---	---	**576**	---	---	---	---	---	---	---	---	---	---	---	---	---	**3100**	---	---	---	20	50
	November-2023	---	**80.8**	---	---	---	---	---	---	---	---	---	---	**31.3**	---	---	---	---	---	---	---	---	---	---	---	2	5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**323**	---	---	---	---	---	---	4	10
		---	---	---	---	**1070**	---	**654**	---	---	**982**	---	---	---	---	---	---	---	---	---	---	**1960**	---	---	**1190**	20	50
		---	---	---	**870**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**932**	---	---	---	---	---	---	---	8	20
		---	---	---	**1330**	---	---	---	---	---	---	---	---	---	---	---	---	---	**463**	---	---	---	---	---	---	20	50
	January-2024	---	---	**1410**	---	---	---	---	---	---	**662**	---	---	---	---	---	---	---	---	---	---	---	---	---	**2900**	20	50
	February-2024	---	---	**906**	---	**884**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**346**	---	**484**	---	---	20	50
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**226**	---	**8910**	20	50
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**52.1**	---	---	---	---	**13.8**	---	---	---	---	---	---	4	10
		---	---	---	**2040**	---	---	---	---	---	---	---	---	---	---	---	---	**3420**	---	---	---	---	---	---	---	20	50
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**276**	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	**3080**	---	---	---	---	---	---	---	---	---	**144**	**818**	---	---	**2990**	20	50
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**173**	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**210**	---	---	---	**2740**	20	50
	July-2024	---	---	---	---	---	---	---	---	---	**1410**	**1820**	---	---	---	---	---	---	---	---	---	---	---	---	---	20	50
	August-2024	---	---	---	---	---	**828**	---	---	---	---	---	---	---	---	---	---	---	---	---	**162**	---	---	**384**	---	20	50
	September-2024	---	---	---	**960**	---	**727**	---	---	---	---	---	---	---	---	---	---	**2710**	---	---	---	---	---	---	---	20	50
	October-2024	**306**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.4	1
		---	**429**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	5
		---	---	---	**1200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**828**	---	---	---	---	---	20	50
	November-2024	**119**	**512**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
	December-2024	---	---	---	**675**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3280**	20	50
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**588**	---	---	---	---	20	50
	February-2025	---	**739**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**443**	---	---	---	---	20	50
		---	---	---	---	---	---	---	---	---	---	---	**559000**	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**157**	---	---	---	---	---	---	---	---	**1260**	---	---	---	---	---	**2350**	---	---	---	---	---	---	---	20	50

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
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
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**22.8**	---	---	---	---	---	---	8	20
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**34.8**	---	---	---	---	---	---	2	5
		---	---	---	---	---	---	**42.5 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	**247**	---	---	---	20	50
	November-2023	---	**26.3**	---	---	---	---	---	---	---	---	---	---	**45.4**	---	---	---	---	---	---	---	---	---	---	---	2	5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**26.9**	---	---	---	---	---	---	4	10
		---	---	---	---	**62**	---	**54**	---	---	**76.5**	---	---	---	---	---	---	---	---	---	---	**224**	---	---	**60.5**	20	50
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**46**	---	---	---	---	---	---	---	8	20
		---	---	---	**69.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	**44 J**	---	---	---	---	---	---	20	50
	January-2024	---	---	**99**	---	---	---	---	---	---	**28 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	**248**	20	50
	February-2024	---	---	**51**	---	**43 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**31 J**	---	**41 J**	---	---	20	50
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**25 J**	---	**710**	20	50
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**106**	---	---	---	---	ND	---	---	---	---	---	---	4	10
		---	---	---	**91.5**	---	---	---	---	---	---	---	---	---	---	---	---	**186**	---	---	---	---	---	---	---	20	50
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**35.4**	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	**146**	---	---	---	---	---	---	---	---	---	ND	**59**	---	---	**225**	20	50
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23.6**	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	**142**	20	50
	July-2024	---	---	---	---	---	---	---	---	---	**76**	**118**	---	---	---	---	---	---	---	---	---	---	---	---	---	20	50
	August-2024	---	---	---	---	---	**27.5 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	**27 J**	---	20	50
	September-2024	---	---	---	**46.5 J**	---	**44 J**	---	---	---	---	---	---	---	---	---	---	**192**	---	---	---	---	---	---	---	20	50
	October-2024	**59.6**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.4	1
		---	**112**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	5
		---	---	---	**62.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**76**	---	---	---	---	---	20	50
	November-2024	**14.4 J**	**135**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
	December-2024	---	---	---	**52.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**252**	20	50
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**54.5**	---	---	---	---	20	50
	February-2025	---	**164**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**158**	---	---	---	---	20	50
		---	---	---	---	---	---	---	---	---	---	---	**2090000**	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**61.5**	---	---	---	---	---	---	---	---	**168**	---	---	---	---	---	**117**	---	---	---	---	---	---	---	20	50

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Tetrahydrofuran	November-2022	---	---	---	---	---	---	---	---	---	**309**	---	---	---	---	**176**	---	---	---	---	---	---	---	---	---	100	100
		---	---	---	---	---	---	---	---	---	---	---	**8530**	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
	December-2022	---	**151**	---	---	---	---	---	---	---	**170**	**1120**	---	---	---	---	---	**663**	---	---	---	---	---	---	---	100	100
		---	---	---	**5210**	---	---	---	**19800**	---	---	---	---	---	---	---	**6130**	---	---	---	---	---	---	---	---	1000	1000
	January-2023	---	**183**	---	---	---	---	---	---	**566**	**1810**	---	---	---	---	**352**	---	---	---	---	---	---	---	---	---	100	100
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3760**	---	---	---	---	---	---	---	2000	2000
	March-2023	---	---	---	---	---	---	---	---	**353**	**464**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	100
	April-2023	---	---	---	---	---	---	---	---	**2410**	---	**4790**	---	---	---	---	---	---	---	---	---	---	---	---	---	100	100
	May-2023	---	ND	---	---	---	---	---	---	**2740**	**2380**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
	June-2023	---	---	---	---	---	---	---	---	---	**2100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	---	---	---	---	**7320**	---	**6670**	---	---	---	---	---	---	---	---	---	---	500	500
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2960**	100	100
		---	**411**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**616**	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	**8380**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**5310**	---	500	500
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2880**	200	200
		---	---	---	---	---	**7370**	---	**3210**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1200**	---	500	500
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**343**	---	---	---	---	---	---	200	200
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2500	2500
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**606**	---	---	---	---	---	---	50	50
		---	---	---	---	---	---	**4870**	---	---	---	---	---	---	---	---	---	---	---	---	---	**9140**	---	---	---	500	500
	November-2023	---	**199**	---	---	---	---	---	---	---	---	---	---	**325**	---	---	---	---	---	---	---	---	---	---	---	50	50
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**358**	---	---	---	---	---	---	100	100
		---	---	---	---	**4780**	---	**3320**	---	---	**785**	---	---	---	---	---	---	---	---	---	---	**5370**	---	---	**4600**	500	500
		---	---	---	**4620**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2500	2500
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4240**	---	---	---	---	---	---	---	200	200
		---	---	---	**2620**	---	---	---	---	---	---	---	---	---	---	---	---	---	**502**	---	---	---	---	---	---	500	500
	January-2024	---	---	**5160**	---	---	---	---	---	---	**1040**	---	---	---	---	---	---	---	---	---	---	---	---	---	**10900**	500	500
	February-2024	---	---	**3500**	---	**4580**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3520**	---	**4910**	---	---	500	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3320**	---	**8710**	500	500
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**697**	---	---	---	---	ND	---	---	---	---	---	---	100	100
		---	---	---	**7290**	---	---	---	---	---	---	---	---	---	---	---	---	**7680**	---	---	---	---	---	---	---	500	500
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**555**	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	---	---	**2660**	---	---	---	---	---	---	---	---	---	**1880**	**5860**	---	---	**7640**	500	500
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**568**	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3830**	---	---	---	**13000**	500	500
	July-2024	---	---	---	---	---	---	---	---	---	**1900**	**4020**	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
	August-2024	---	---	---	---	---	**3220**	---	---	---	---	---	---	---	---	---	---	---	---	---	**2020**	---	---	**4610**	---	500	500
	September-2024	---	---	---	**2950**	---	**2730**	---	---	---	---	---	---	---	---	---	---	**6640**	---	---	---	---	---	---	---	500	500
	October-2024	**248**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	10
		---	**318**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	50
		---	---	---	**2580**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2730**	---	---	---	---	---	500	500
	November-2024	**6620**	**452**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	200
	December-2024	---	---	---	**5660**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**17000**	500	500
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**11200**	---	---	---	---	500	500
	February-2025	---	**1020**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**7490**	---	---	---	---	500	500
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	ND	---	---	---	---	---	---	---	---	**4890**	---	---	---	---	---	**10000**	---	---	---	---	---	---	---	500	500

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Toluene	November-2022	---	---	---	---	---	---	---	---	---	ND	---	**214**	---	---	**32.8**	---	---	---	---	---	---	---	---	---	5	10
	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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**36.6**	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
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	125	250
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**73.2**	---	---	---	---	---	---	---	10	20
		---	---	---	**83.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	**74.5**	---	---	---	---	---	---	25	50
	January-2024	---	---	**95.5**	---	---	---	---	---	---	**60**	---	---	---	---	---	---	---	---	---	---	---	---	---	**310**	25	50
	February-2024	---	---	**49 J**	---	**37 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**30.5 J**	---	---	25	50
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**73**	---	**916**	25	50
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**90.1**	---	---	---	---	ND	---	---	---	---	---	---	5	10
		---	---	---	**104**	---	---	---	---	---	---	---	---	---	---	---	---	**263**	---	---	---	---	---	---	---	25	50
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**53.8**	---	---	---	---	---	---	10	20
		---	---	---	---	---	---	---	---	---	**180**	---	---	---	---	---	---	---	---	---	ND	**62.5**	---	---	**284**	25	50
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**34.6**	---	---	---	---	---	---	10	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	**228**	25	50
	July-2024	---	---	---	---	---	---	---	---	---	**97**	**125**	---	---	---	---	---	---	---	---	---	---	---	---	---	25	50
	August-2024	---	---	---	---	---	**35 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	**25 J**	---	25	50
	September-2024	---	---	---	**80**	---	**63.5**	---	---	---	---	---	---	---	---	---	---	**226**	---	---	---	---	---	---	---	25	50
	October-2024	**55.7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	1
		---	**173**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.5	5
		---	---	---	**65.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**72**	---	---	---	---	---	25	50
	November-2024	**44.6**	**245**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	20
	December-2024	---	---	---	**42 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**288**	25	50
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**36 J**	---	---	---	---	25	50
	February-2025	---	**271**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**54.5**	---	---	---	---	25	50
		---	---	---	---	---	---	---	---	---	---	---	**537000**	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**90.5**	---	---	---	---	---	---	---	---	**150**	---	---	---	---	---	**166**	---	---	---	---	---	---	---	25	50

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-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																									
Xylenes, Total	November-2022	---	---	---	---	---	---	---	---	---	ND	---	**185**	---	---	**37.8**	---	---	---	---	---	---	---	---	---	10	30
	December-2022	---	**161**	---	**222**	---	---	---	**186**	---	ND	**112**	---	---	---	---	**197**	**59.9**	---	---	---	---	---	---	---	10	30
	January-2023	---	**138**	---	---	---	---	---	---	ND	**134**	---	---	---	---	**38.1**	---	---	---	---	---	---	---	---	---	10	30
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**240**	---	---	---	---	---	---	---	10	30
	March-2023	---	---	---	---	---	---	---	---	**240**	**111**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	30
	April-2023	---	---	---	---	---	---	---	---	**329**	---	**97.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	10	30
	May-2023	---	**274**	---	---	---	---	---	---	**441**	**230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	150
	June-2023	---	---	---	---	---	---	---	---	---	**177**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	---	---	---	---	**92 J**	---	**136 J**	---	---	---	---	---	---	---	---	---	---	50	150
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1130**	10	30
		---	**257**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**74.4**	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	**230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**174**	---	50	150
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**48.4 J**	20	60
		---	---	---	---	---	**180**	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	50	150
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	20	60
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250	750
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**30.6**	---	---	---	---	---	---	5	15
		---	---	---	---	---	---	**134 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	**328**	---	---	---	50	150
	November-2023	---	**56**	---	---	---	---	---	---	---	---	---	---	**48**	---	---	---	---	---	---	---	---	---	---	---	5	15
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**25.3 J**	---	---	---	---	---	---	10	30
		---	---	---	---	**116 J**	---	**104 J**	---	---	**132 J**	---	---	---	---	---	---	---	---	---	---	**306**	---	---	**138 J**	50	150
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250	750
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**167**	---	---	---	---	---	---	---	20	60
		---	---	---	**224**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	50	150
	January-2024	---	---	**142 J**	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	**534**	50	150
	February-2024	---	---	**63 J**	---	**59 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	50	150
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**1360**	50	150
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**110**	---	---	---	---	ND	---	---	---	---	---	---	10	30
		---	---	---	**140 J**	---	---	---	---	---	---	---	---	---	---	---	---	**352**	---	---	---	---	---	---	---	50	150
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**31.6 J**	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	---	---	**223**	---	---	---	---	---	---	---	---	---	ND	**105 J**	---	---	**400**	50	150
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	**261**	50	150
	July-2024	---	---	---	---	---	---	---	---	---	**125 J**	**157**	---	---	---	---	---	---	---	---	---	---	---	---	---	50	150
	August-2024	---	---	---	---	---	**72.5 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	**55.5 J**	---	50	150
	September-2024	---	---	---	**90.5 J**	---	**120 J**	---	---	---	---	---	---	---	---	---	---	**368**	---	---	---	---	---	---	---	50	150
	October-2024	**54.3**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	3
		---	**201**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	15
	November-2024	ND	**223**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**75.5 J**	---	---	---	---	---	50	150
	December-2024	---	---	---	**98.5 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**487**	20	60
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**82 J**	---	---	---	---	50	150
	February-2025	---	**267**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**354**	---	---	---	---	50	150
		---	---	---	---	---	---	---	---	---	---	---	**4260000**	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**108 J**	---	---	---	---	---	---	---	---	**386**	---	---	---	---	---	**200**	---	---	---	---	---	---	---	50	150

--- = not applicable/available

J = Parameter was detected at a concentration greater than the laboratory's LOD, but less than the laboratory's LOQ. Concentration is considered estimated.

LOD = laboratory's Limit of Detection

LOQ = laboratory's Limit of Quantitation

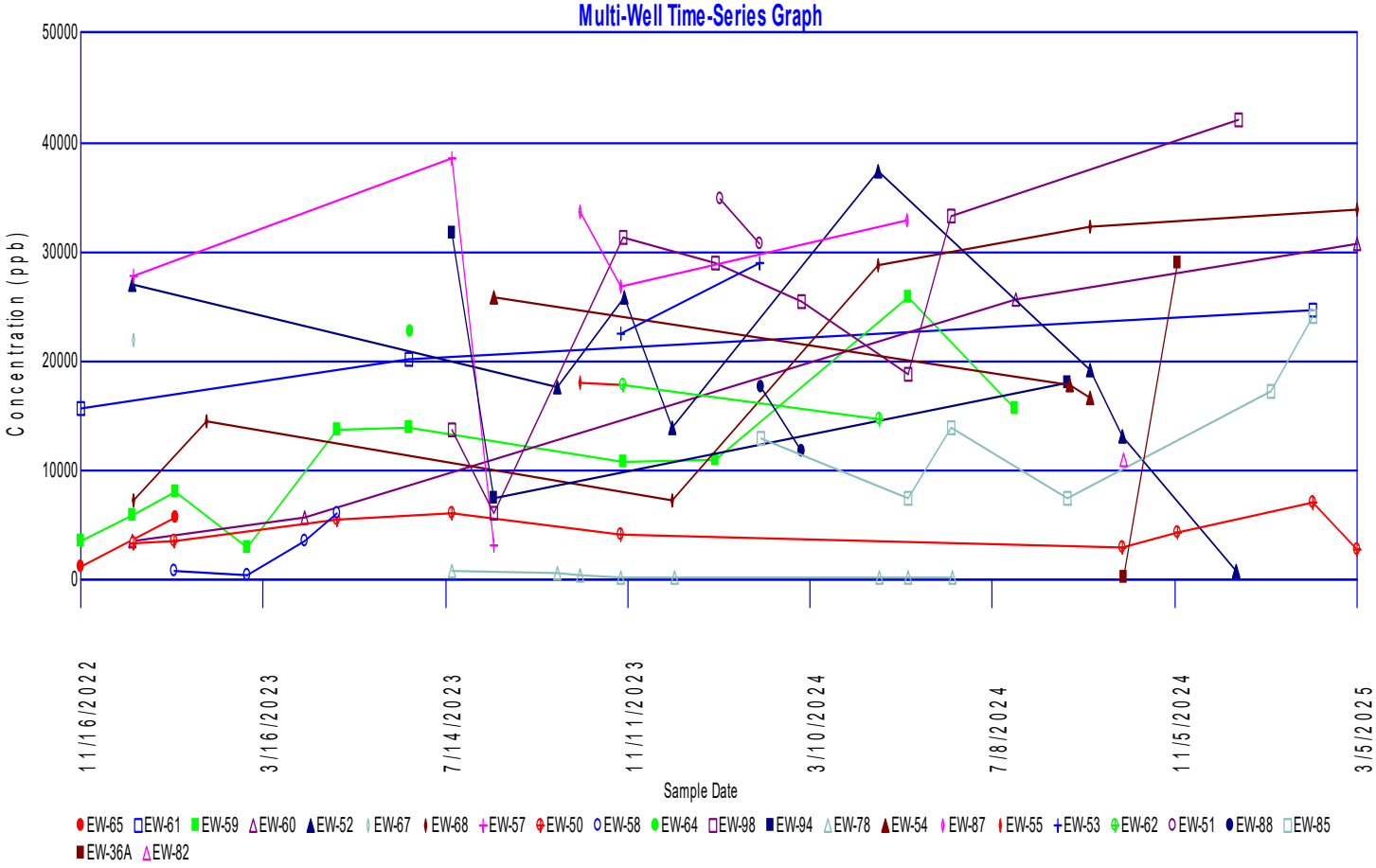
mg/L = milligrams per liter

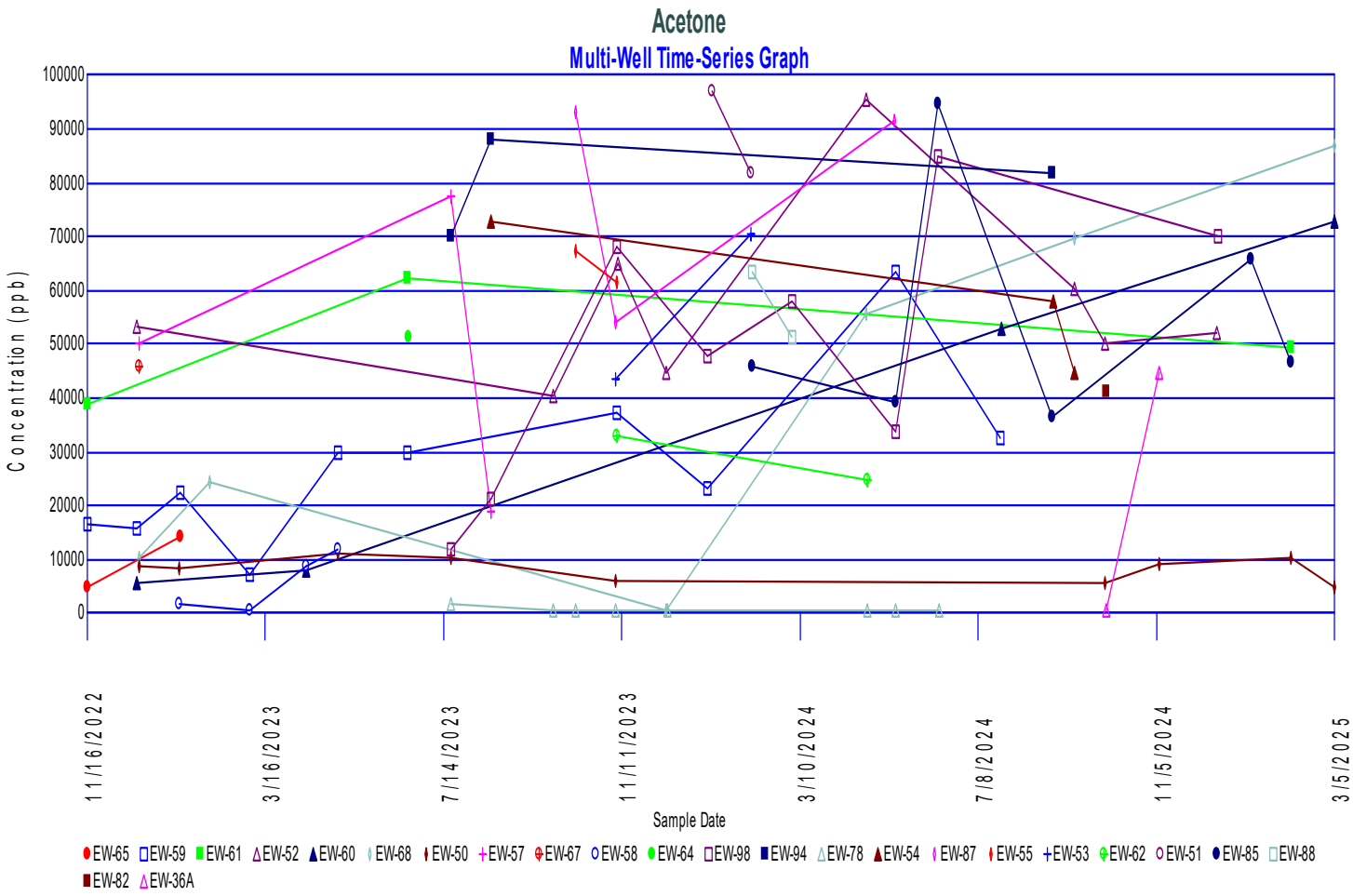
ND = Not Detected

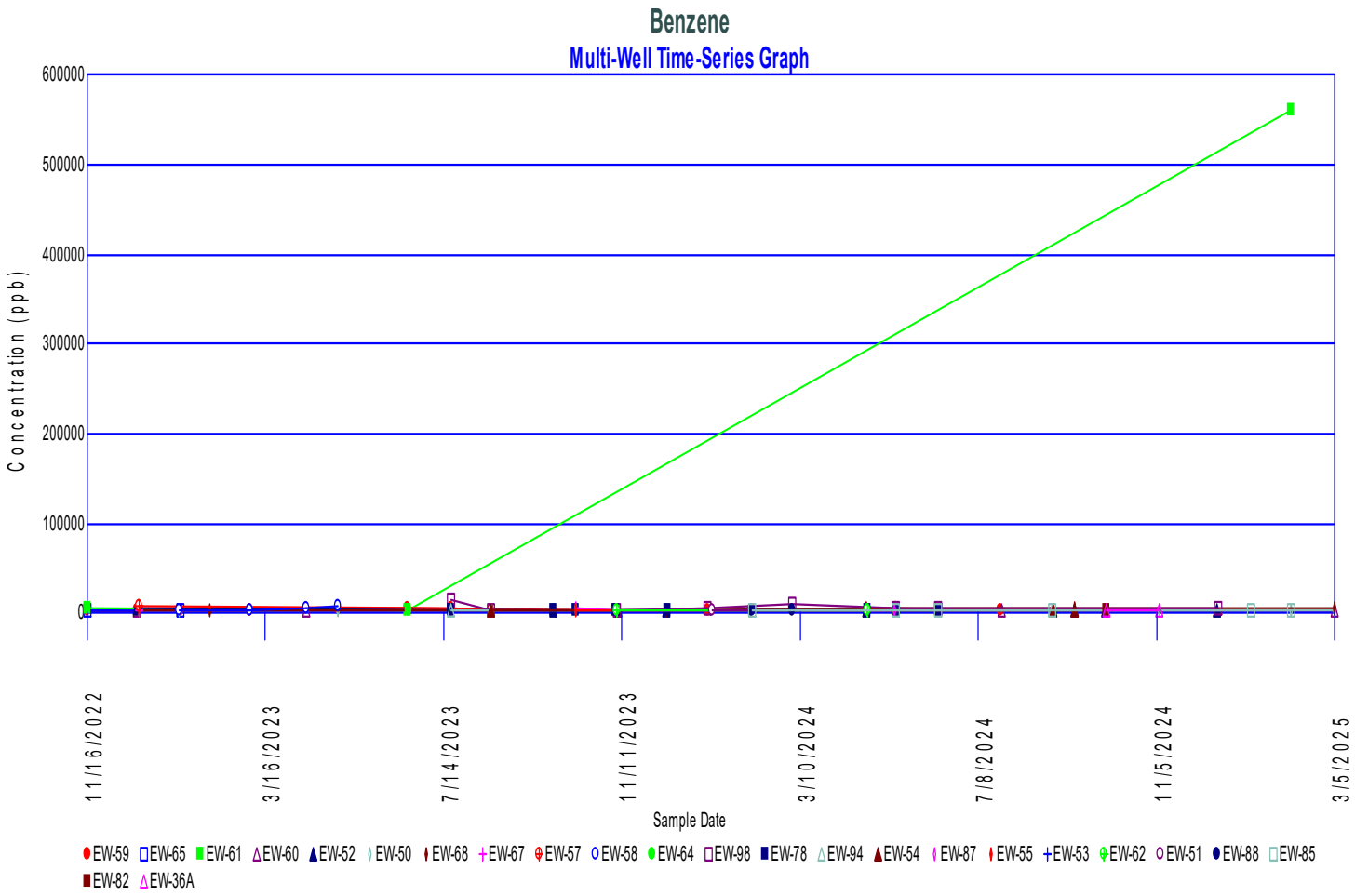
ug/L = micrograms per liter

2-Butanone

Multi-Well Time-Series Graph

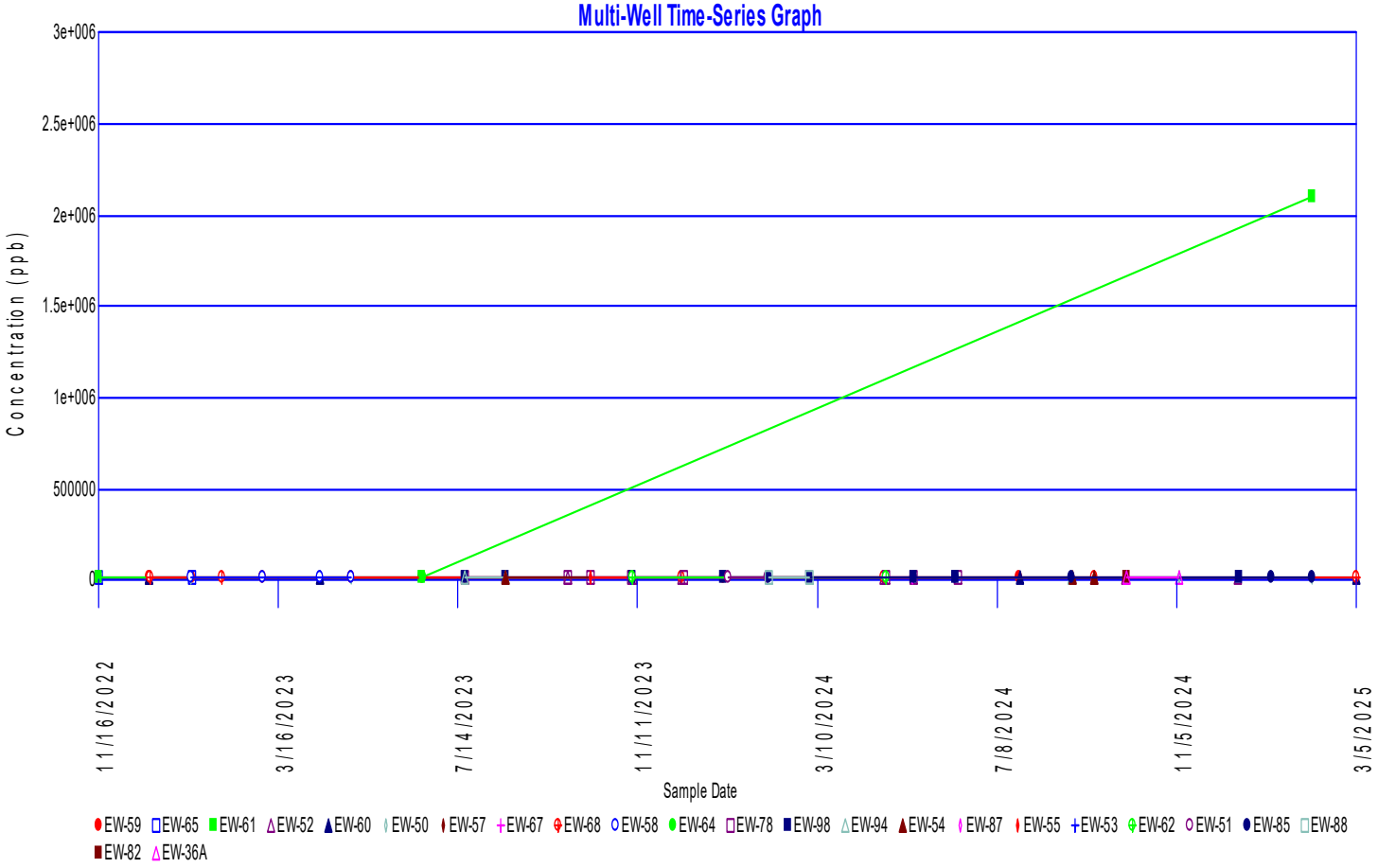



Acetone
Multi-Well Time-Series Graph
Concentration (ppb)
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
11/16/2022
3/16/2023
7/14/2023
11/11/2023
3/10/2024
7/8/2024
11/5/2024
3/5/2025
Sample Date
EW-65 EW-59 EW-61 EW-52 EW-60 EW-68 EW-50 EW-57 EW-67 EW-58 EW-64 EW-98 EW-94 EW-78 EW-54 EW-87 EW-55 EW-53 EW-62 EW-51 EW-85 EW-88
EW-82 EW-36A


Benzene
Multi-Well Time-Series Graph
600000
500000
400000
300000
200000
100000
0
Concentration (ppb)
11/16/2022
3/16/2023
7/14/2023
11/11/2023
3/10/2024
7/8/2024
11/5/2024
3/5/2025
Sample Date
EW-59 EW-65 EW-61 EW-60 EW-52 EW-50 EW-68 EW-67 EW-57 EW-58 EW-64 EW-98 EW-78 EW-94 EW-54 EW-87 EW-55 EW-53 EW-62 EW-51 EW-88 EW-85
EW-82 EW-36A

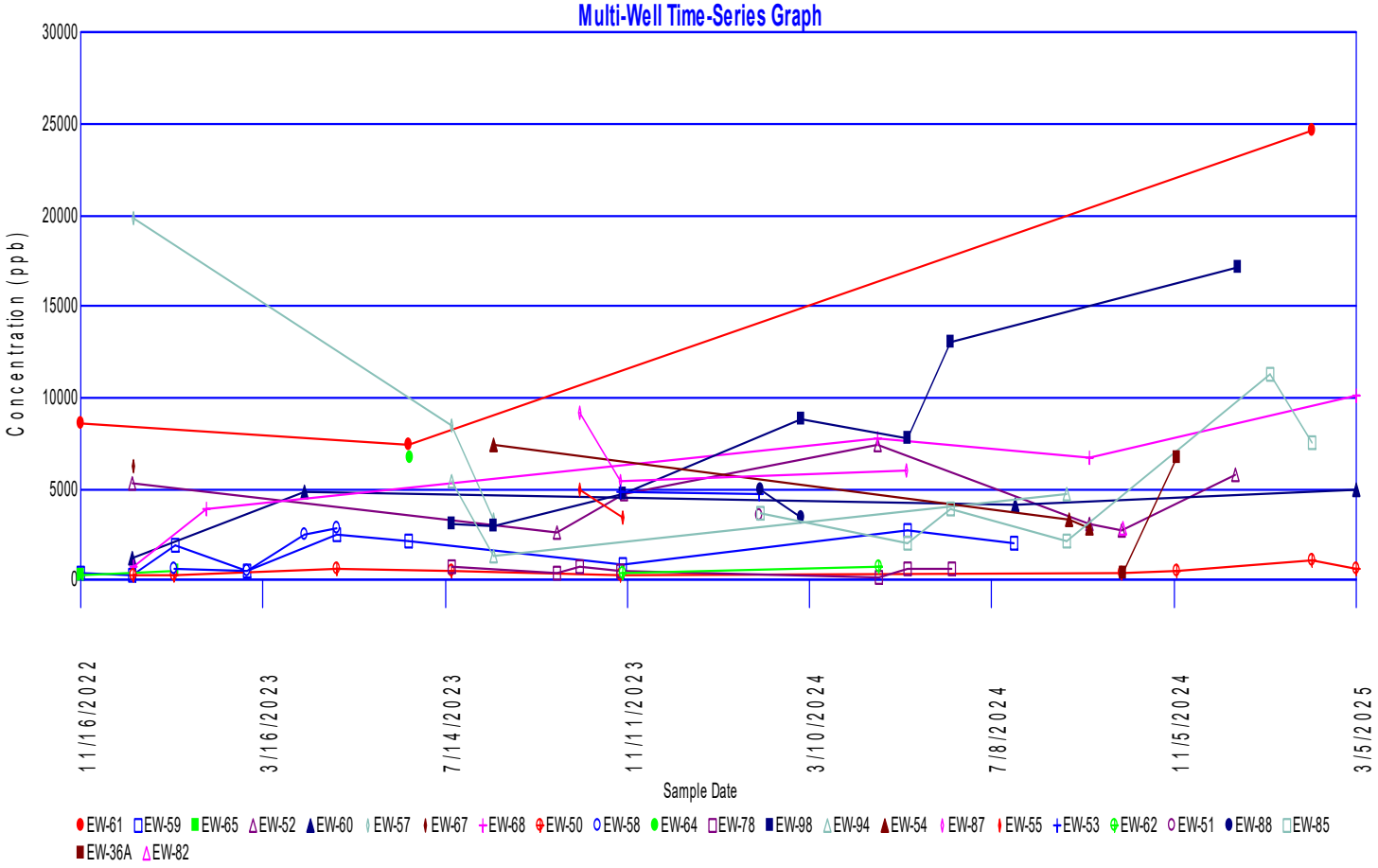
Ethylbenzene

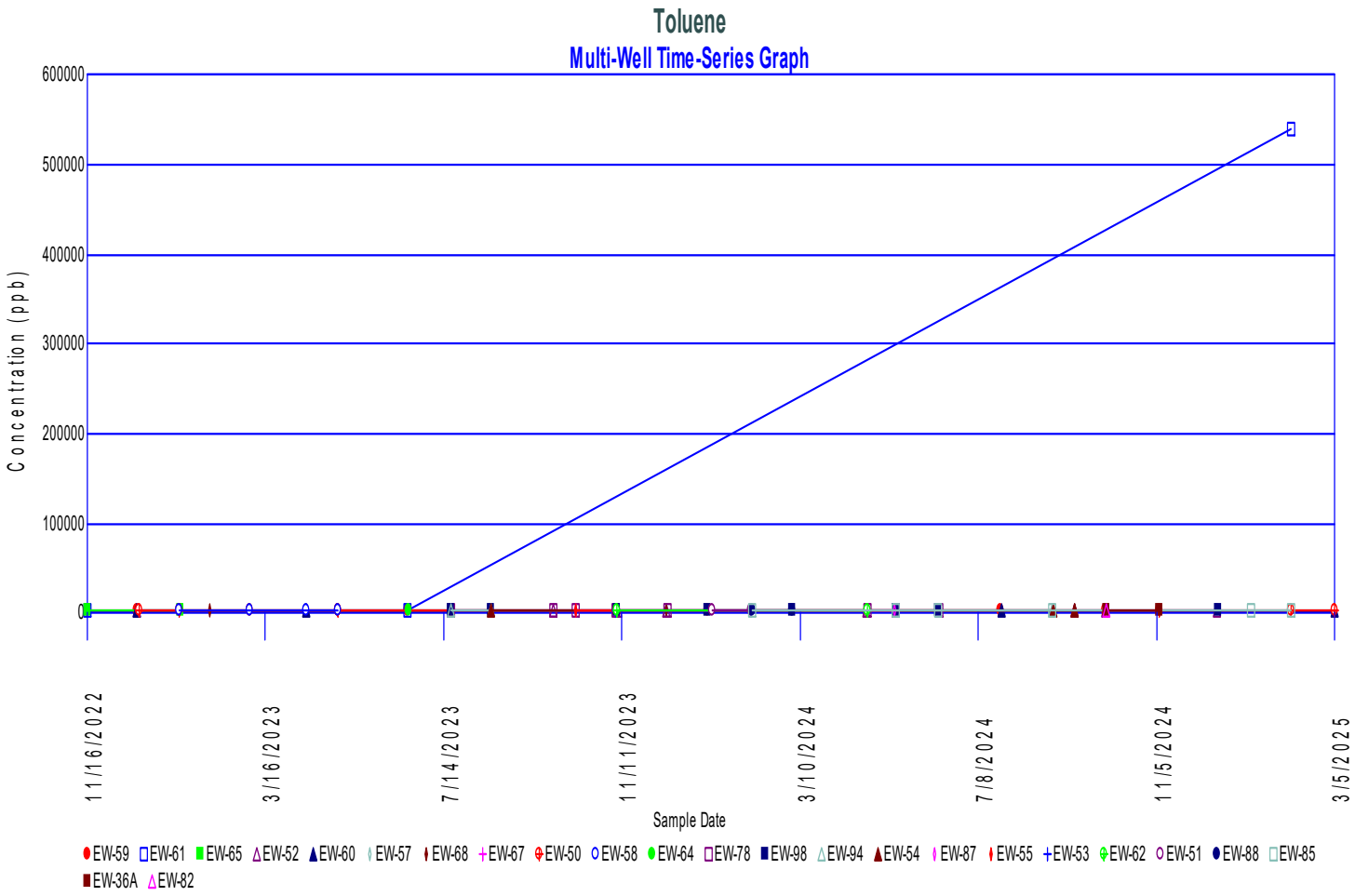
Multi-Well Time-Series Graph



Tetrahydrofuran

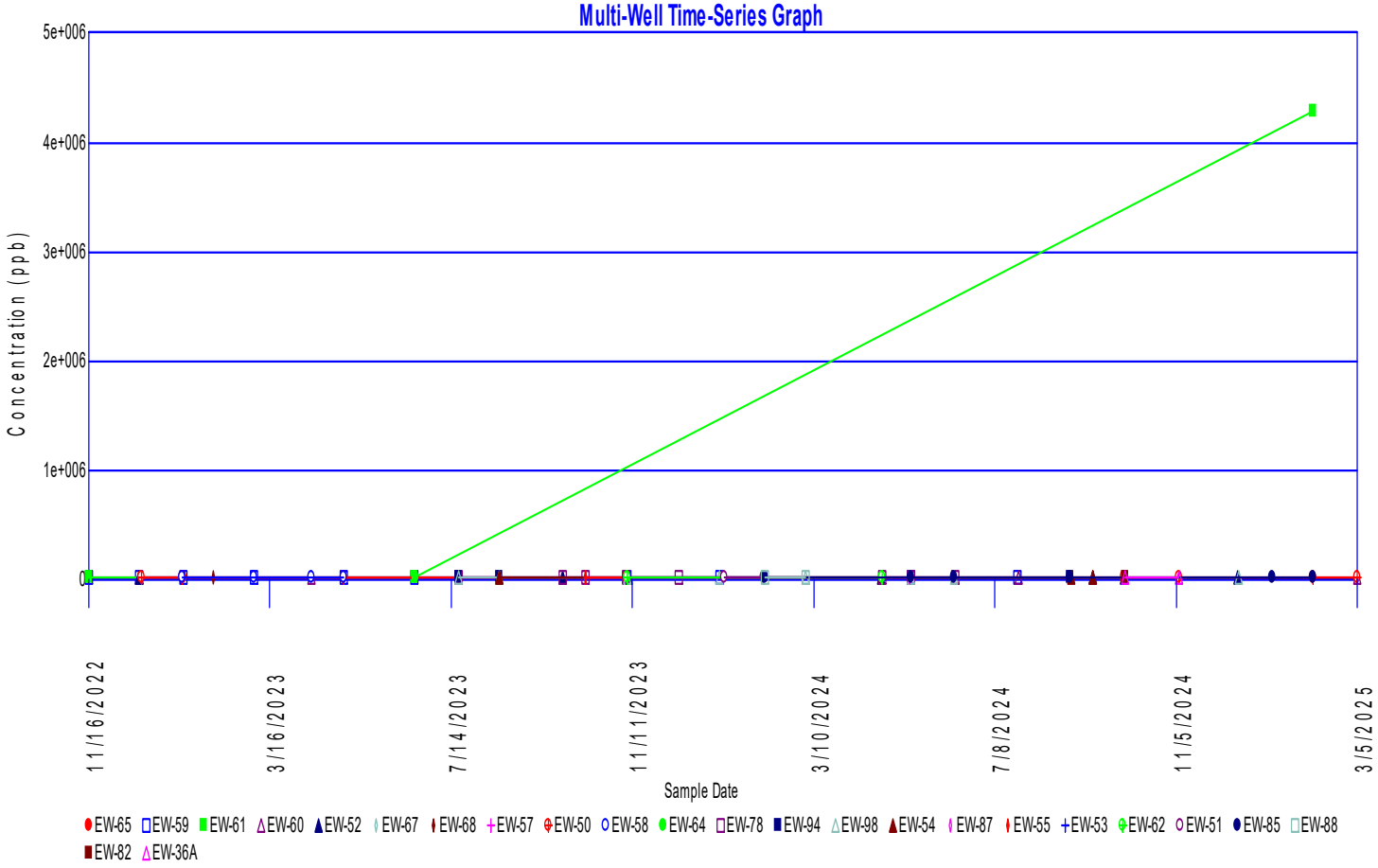
Multi-Well Time-Series Graph




Toluene
Multi-Well Time-Series Graph
600000
500000
400000
300000
200000
100000
0
Concentration (ppb)
11/16/2022
3/16/2023
7/14/2023
11/11/2023
3/10/2024
7/8/2024
11/5/2024
3/5/2025
Sample Date
EW-59 EW-61 EW-65 EW-52 EW-60 EW-57 EW-68 EW-67 EW-50 EW-58 EW-64 EW-78 EW-98 EW-94 EW-54 EW-87 EW-55 EW-53 EW-62 EW-51 EW-88 EW-85
EW-36A EW-82

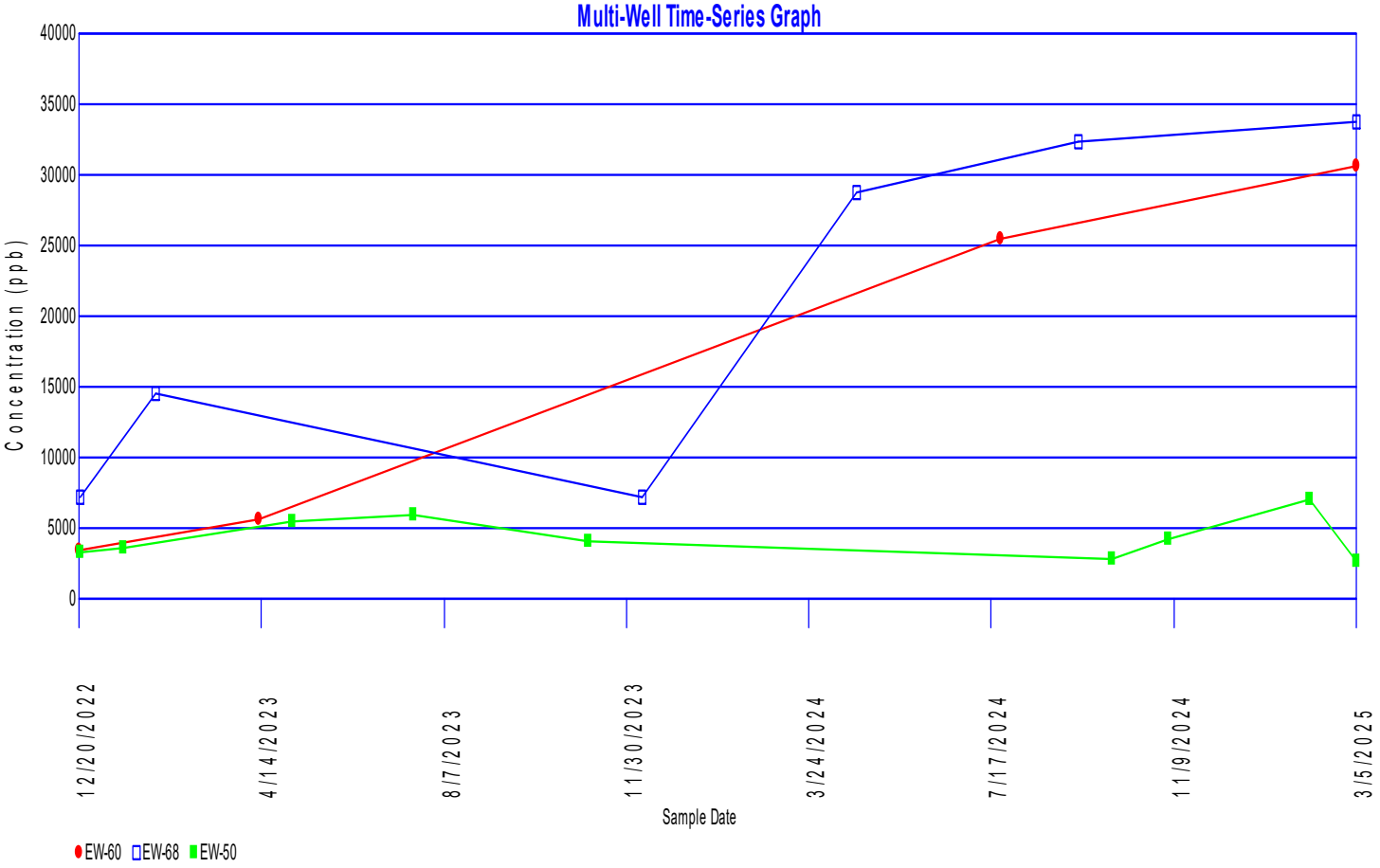
Xylenes

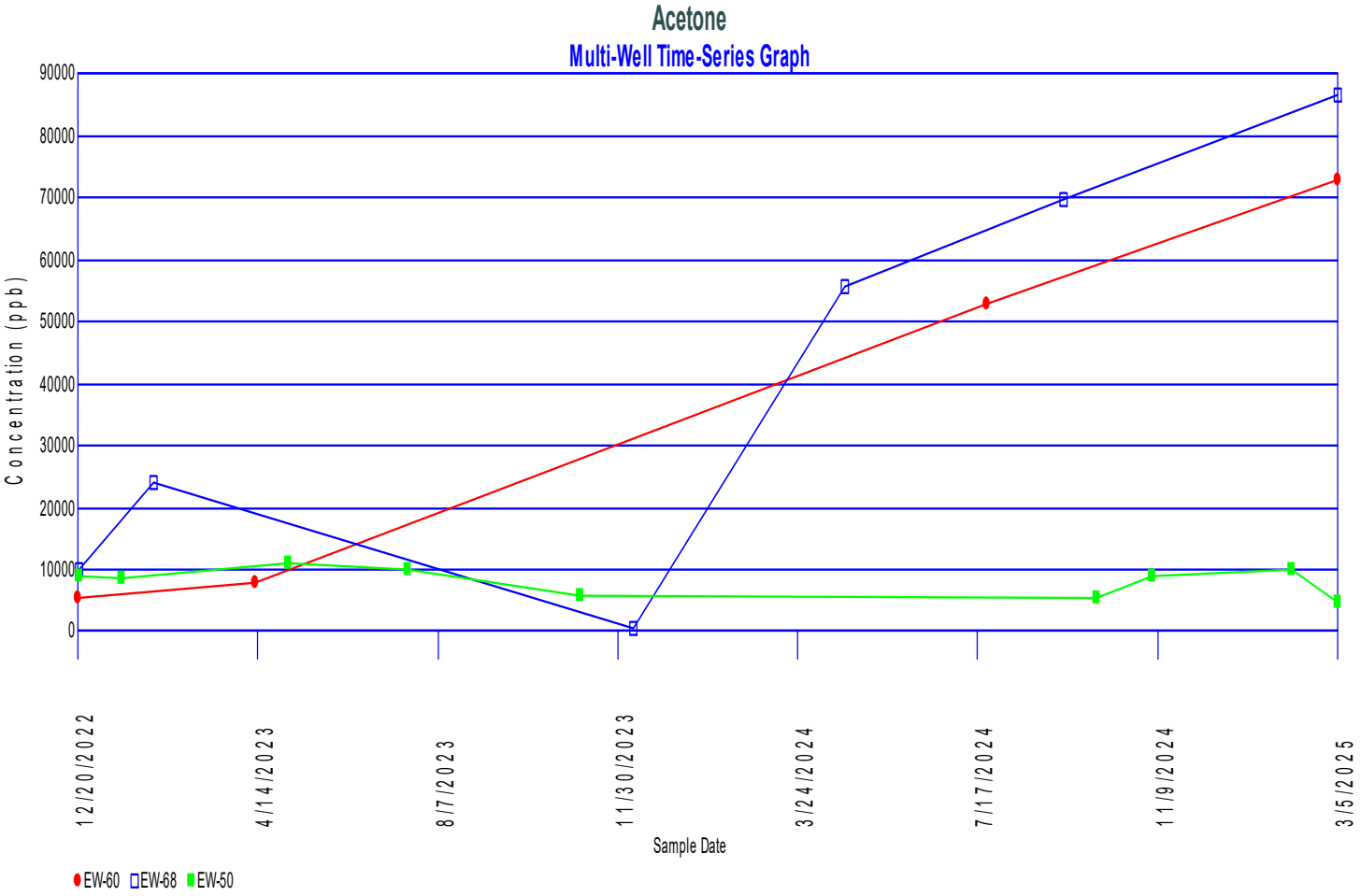
Multi-Well Time-Series Graph

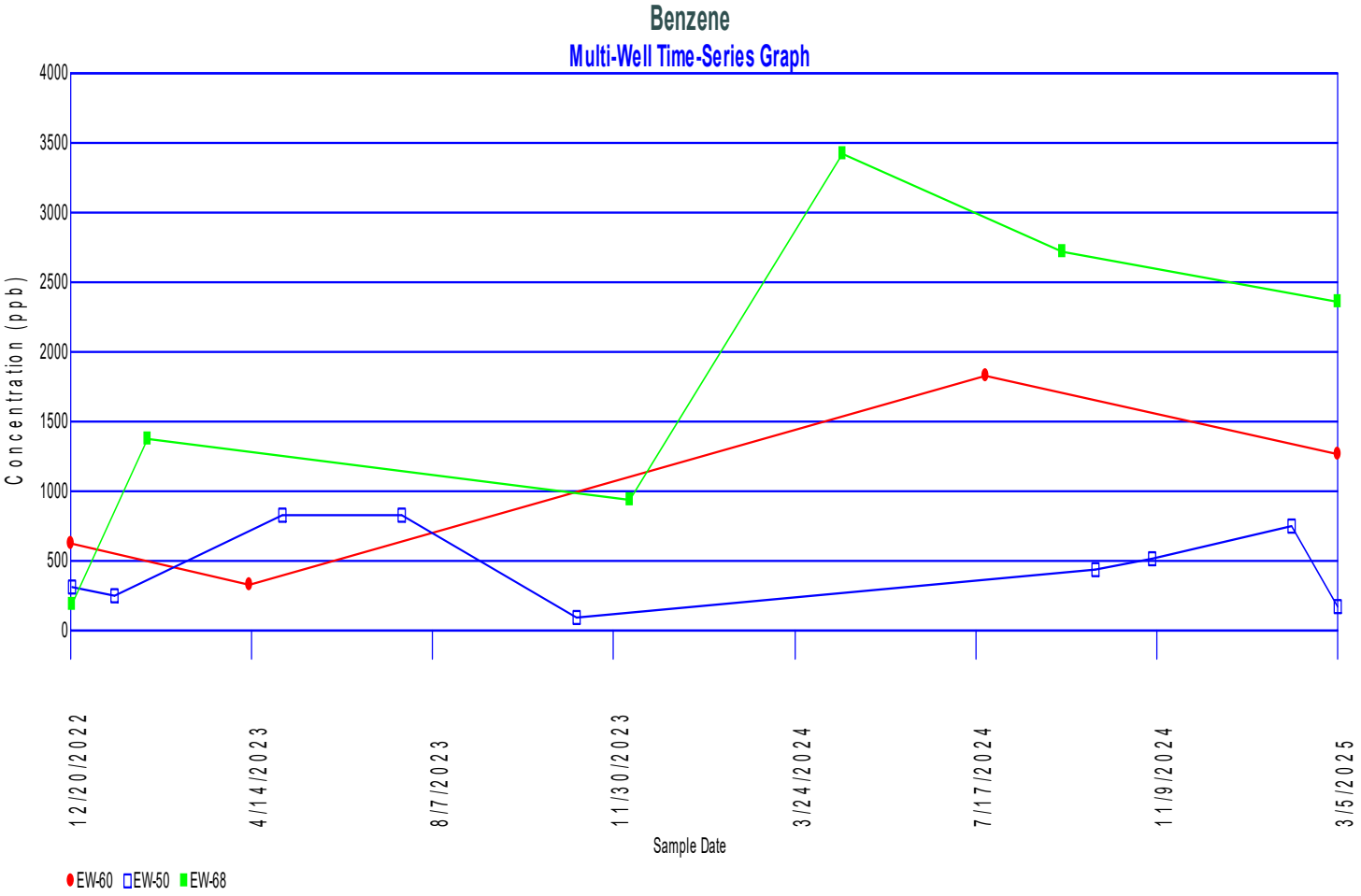


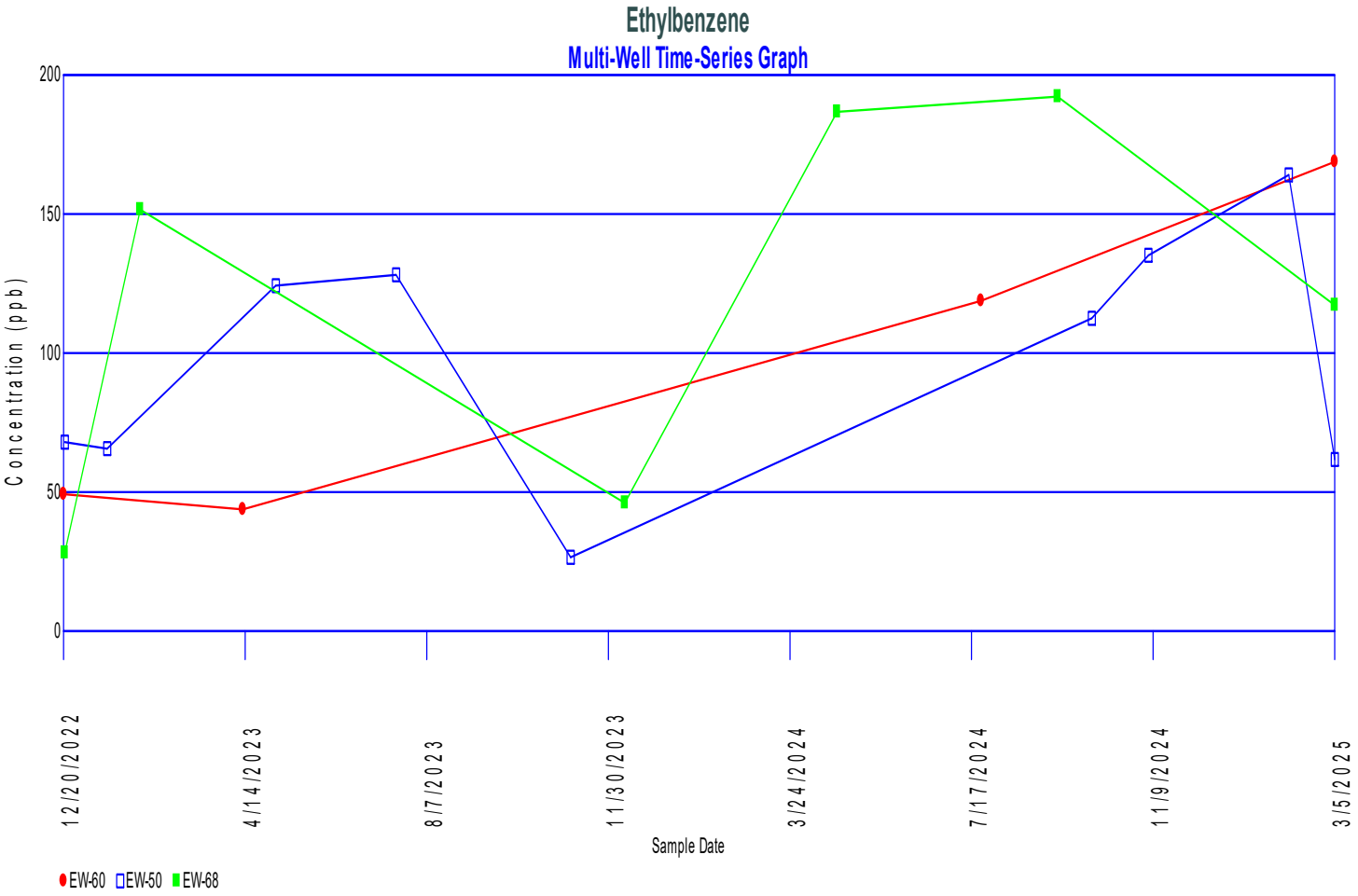
2-Butanone

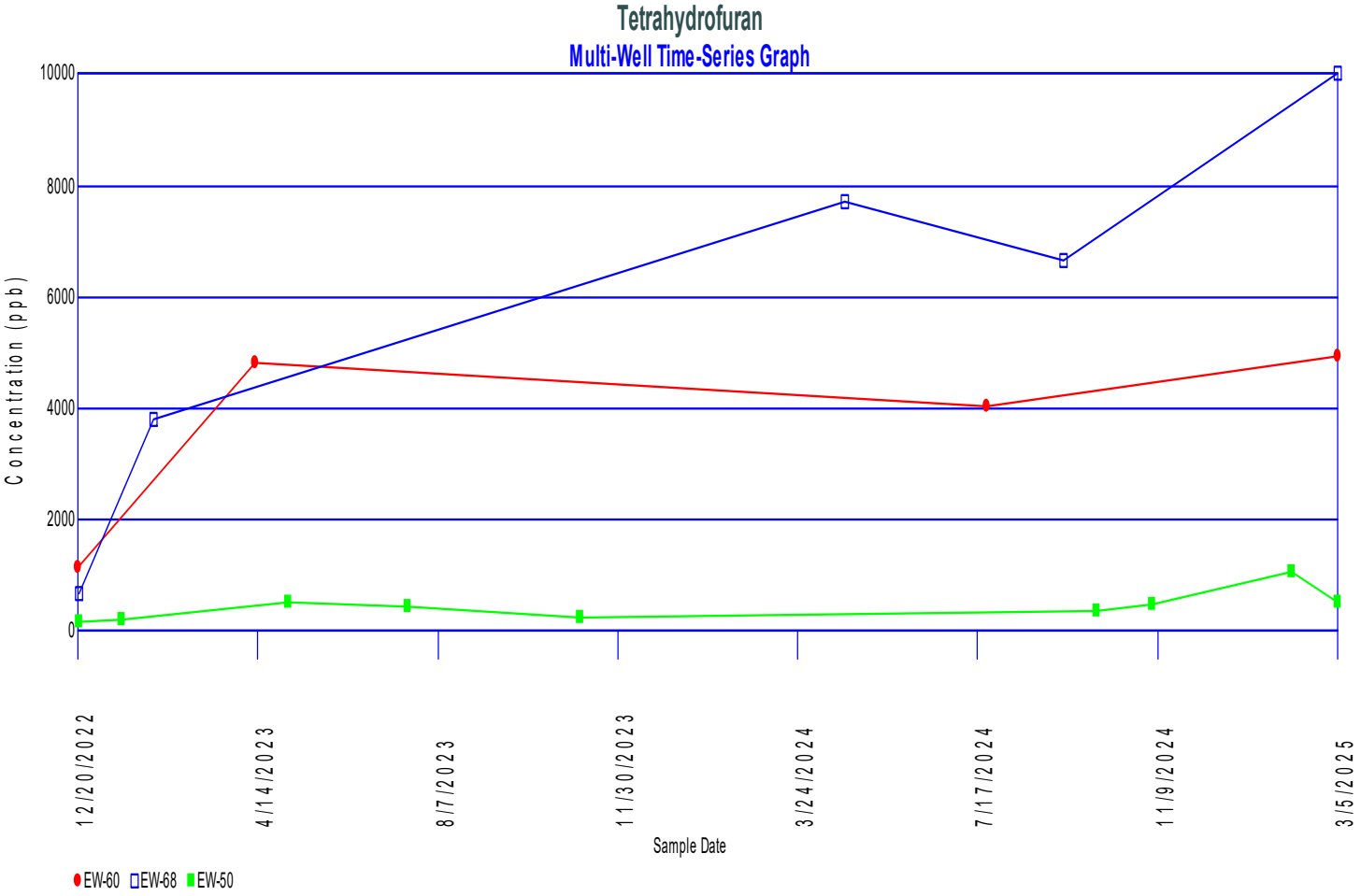
Multi-Well Time-Series Graph

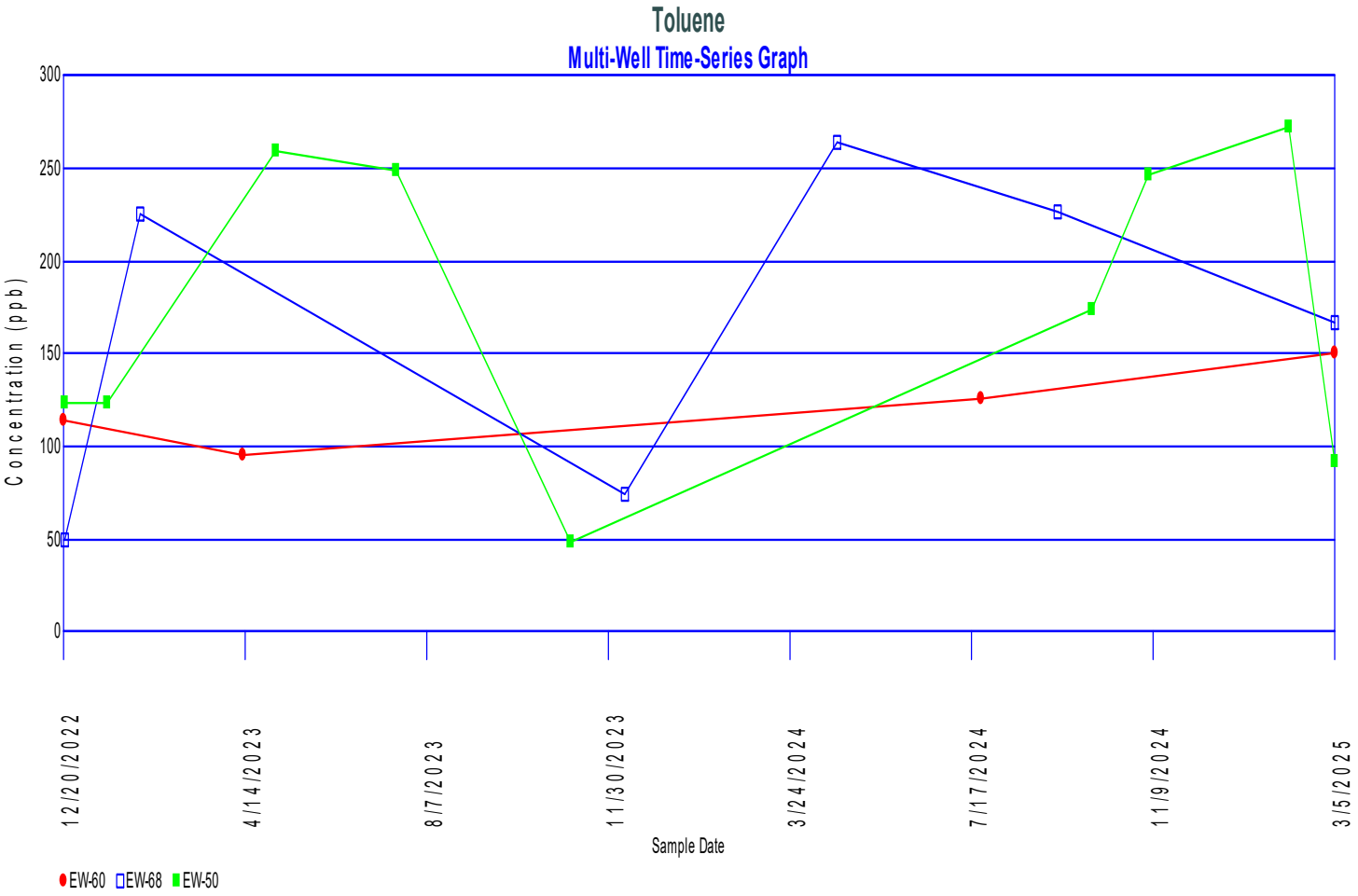


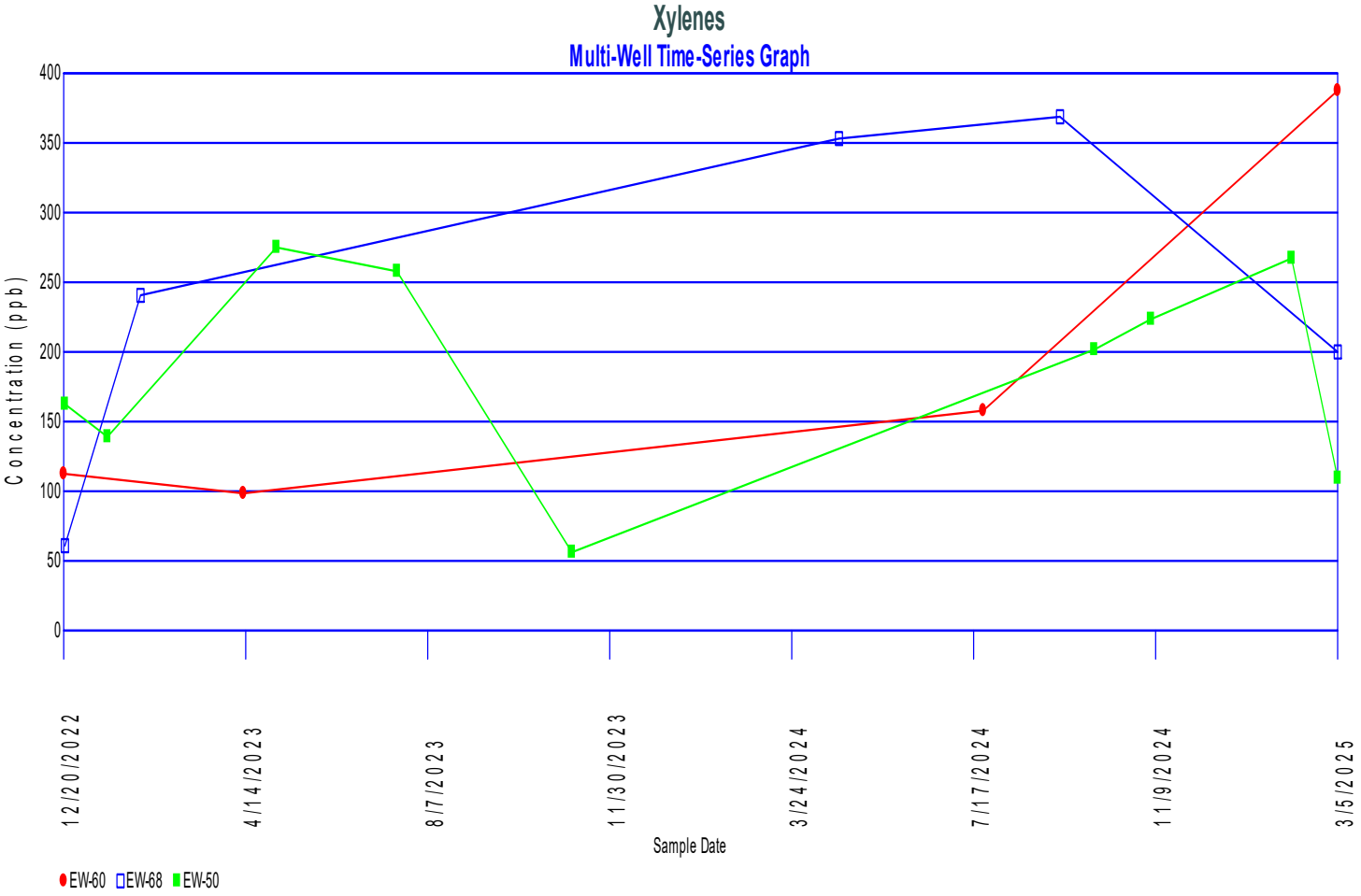

Acetone
Multi-Well Time-Series Graph
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
Concentration (ppb)
12/20/2022
4/14/2023
8/7/2023
11/30/2023
3/24/2024
7/17/2024
11/9/2024
3/5/2025
Sample Date
EW-60
EW-68
EW-50


Benzene
Multi-Well Time-Series Graph
Concentration (ppb)
4000
3500
3000
2500
2000
1500
1000
500
0
12/20/2022
4/14/2023
8/7/2023
11/30/2023
3/24/2024
7/17/2024
11/9/2024
3/5/2025
Sample Date
EW-60
EW-50
EW-68


Ethylbenzene
Multi-Well Time-Series Graph
Concentration (ppb)
200
150
100
50
0
12/20/2022
4/14/2023
8/7/2023
11/30/2023
3/24/2024
7/17/2024
11/9/2024
3/5/2025
Sample Date
EW-60
EW-50
EW-68


Tetrahydrofuran
Multi-Well Time-Series Graph
10000
8000
6000
4000
2000
0
Concentration (ppb)
12/20/2022
4/14/2023
8/7/2023
11/30/2023
3/24/2024
7/17/2024
11/9/2024
3/5/2025
Sample Date
EW-60
EW-68
EW-50


Toluene
Multi-Well Time-Series Graph
300
250
200
150
100
50
0
Concentration (ppb)
12/20/2022
4/14/2023
8/7/2023
11/30/2023
3/24/2024
7/17/2024
11/9/2024
3/5/2025
Sample Date
EW-60
EW-68
EW-50


Xylenes
Multi-Well Time-Series Graph
Concentration (ppb)
400
350
300
250
200
150
100
50
0
12/20/2022
4/14/2023
8/7/2023
11/30/2023
3/24/2024
7/17/2024
11/9/2024
3/5/2025
Sample Date
EW-60
EW-68
EW-50

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 40 wells from February 25, 2025 to March 25, 2025. The recorded stroke count data from each well during March are 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	2/25/2025	3/10/2025	3/25/2025	# of strokes between measurements	Estimated liquid removed (gallons)
EW33B				-	-
EW36A				-	-
EW49	79565		79565	-	-
EW50	1534516	1541569	1548311	13,795	4,139
EW51	1234839	1237065	1239019	4,180	1,254
EW52	3294343	3294528		185	56
EW53				-	-
EW54	73374	73374	73374	-	-
EW55	3536795	3536810	3536810	15	5
EW57	120738	130825	140746	20,008	6,002
EW59	477303			-	-
EW60		214599	214599	-	-
EW61		196791	196791	-	-
EW62			79659	2,504	751
EW64	288743	288743	288743	-	-
EW65	2641281	2643218	2644962	3,681	1,104
EW67				-	-
EW68				-	-
EW69				-	-
EW70		20694	28100	22,765	2,550
EW74				-	-
EW75				-	-
EW76				-	-
EW78	288416		292827	4,411	494
EW81	340749			-	-
EW82	254736		254736	-	-
EW83				-	-
EW85				-	-

Well	2/25/2025	3/10/2025	3/25/2025	# of strokes between measurements	Estimated liquid removed (gallons)
EW87				-	-
EW88	1265449	1292375	1292375	26,926	3,016
EW89	963390	1013181	1096145	132,755	14,869
EW90				-	-
EW91	1621752	1670621	1706410	84,658	25,397
EW92				-	-
EW93				-	-
EW94	79565		79565	-	-
EW96	1534516	1541569	1548311	13,795	4,139
EW98	1234839	1237065	1239019	4,180	1,254
Total Estimated Liquid Removal					59,636