April 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 April 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 April 1, 2025; April 8, 2025; April 18, 2025; April 24, 2025; and April 30, 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 April Surface Emissions Monitoring

Description	April 1, 2025	April 8, 2025	April 18, 2025	April 24, 2025	April 30, 2025
Number of Points Sampled	167	167	167	168	168
Number of Points in Serpentine Route	100	100	100	100	100
Number of Points at Surface Cover Penetrations	67	67	67	68	68
Number of Exceedances	3	0	3	4	3
Number of Serpentine Exceedances	0	0	0	0	0
Number of Pipe Penetration Exceedances	3	0	3	4	3

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-66, SCS-FS increased the vacuum at EW-66. Monitoring of this well during a follow-up event did not result in an exceedance.

- Pipe penetration exceedances occurred on April 30, 2025 at EW-54, EW-67, and EW-95. SCS-FS identified low available vacuum at these three locations. SCS-FS plans to conduct further field investigations on the low available vacuum during the week of May 12, 2025.

1.1.2 Monitoring of Leachate Collection Components

SCS Field Services (SCS-FS) visited the Bristol Landfill on April 25, 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	4/25/2025 9:54:03 AM	58.8	39.8	0.0	1.4	60.3	61.1	-14.29	-14.14	-14.06
Southern Cleanouts Gradient East	LC02	4/25/2025 9:57:48 AM	33.6	19.2	7.9	39.4	68.8	69.1	-14.14	-14.18	-14.07
Southern Cleanouts Leachate Center	LC03	4/25/2025 10:01:14 AM	7.4	4.1	19.8	68.7	69.0	69.1	-13.93	-14.06	-14.04
Southern Cleanouts Witness East	LC04	4/25/2025 10:04:42 AM	5.6	1.7	18.7	74.0	69.7	69.6	-11.25	-11.44	-14.34
Southern Cleanouts Leachate West	LC05	4/25/2025 10:09:17 AM	40.5	30.4	5.8	23.2	70.7	70.7	-14.47	-14.16	-14.11
Southern Cleanouts Gradient Center West	LC06	4/25/2025 10:12:41 AM	24.9	10.8	12.6	51.8	72.8	72.8	-9.09	-9.11	-13.98
Southern Cleanouts Leachate East	LC08	4/25/2025 10:17:21 AM	37.5	19.0	6.6	36.9	70.1	70.0	-14.35	-14.22	-14.02
Southern Cleanouts Gradient Center East	LC09	4/25/2025 10:19:58 AM	40.0	32.9	5.3	21.8	75.0	75.2	-14.23	-14.36	-14.16
Southern Cleanouts Leachate West	LC10	4/25/2025 10:22:50 AM	5.2	5.4	18.3	71.1	75.6	75.7	-14.29	-14.47	-14.17
Northern Cleanouts Leachate East	NC01	4/25/2025 8:02:18 AM	0.0	0.0	21.5	78.5	68.6	68.5	-10.10	-10.10	0.00
Northern Cleanouts Leachate Center	NC02	4/25/2025 8:03:54 AM	0.0	0.0	21.4	78.6	71.6	71.9	-10.13	-10.14	0.00
Northern Cleanouts Leachate West	NC03	4/25/2025 8:07:20 AM	0.1	0.0	21.3	78.6	69.4	70.8	-10.12	-10.11	0.03
Northern Cleanouts Witness East	NC04	4/25/2025 8:09:24 AM	5.0	3.3	17.7	74.0	73.3	73.1	-10.11	-10.10	0.03
Northern Cleanouts Witness Center	NC05	4/25/2025 8:11:12 AM	11.2	8.5	12.7	67.6	72.6	72.5	-10.11	-10.10	0.03
Northern Cleanouts Witness West	NC06	4/25/2025 8:12:42 AM	0.2	0.2	21.2	78.5	72.5	72.6	-10.10	-10.10	0.03
Northern Cleanouts Gradient East	NC07	4/25/2025 8:14:24 AM	55.3	37.3	1.0	6.3	72.5	72.4	-9.76	-9.76	0.03
Northern Cleanouts Gradient Center East	NC08	4/25/2025 8:16:28 AM	45.0	35.4	4.1	15.5	77.5	77.5	-9.76	-9.76	0.03
Northern Cleanouts Gradient Center West	NC09	4/25/2025 8:18:05 AM	0.2	0.7	21.0	78.1	74.4	74.6	-10.10	-10.10	0.03

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 Gradient West	NC10	4/25/2025 8:20:12 AM	0.1	0.2	21.1	78.6	70.5	70.4	-9.77	-9.77	0.03

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.

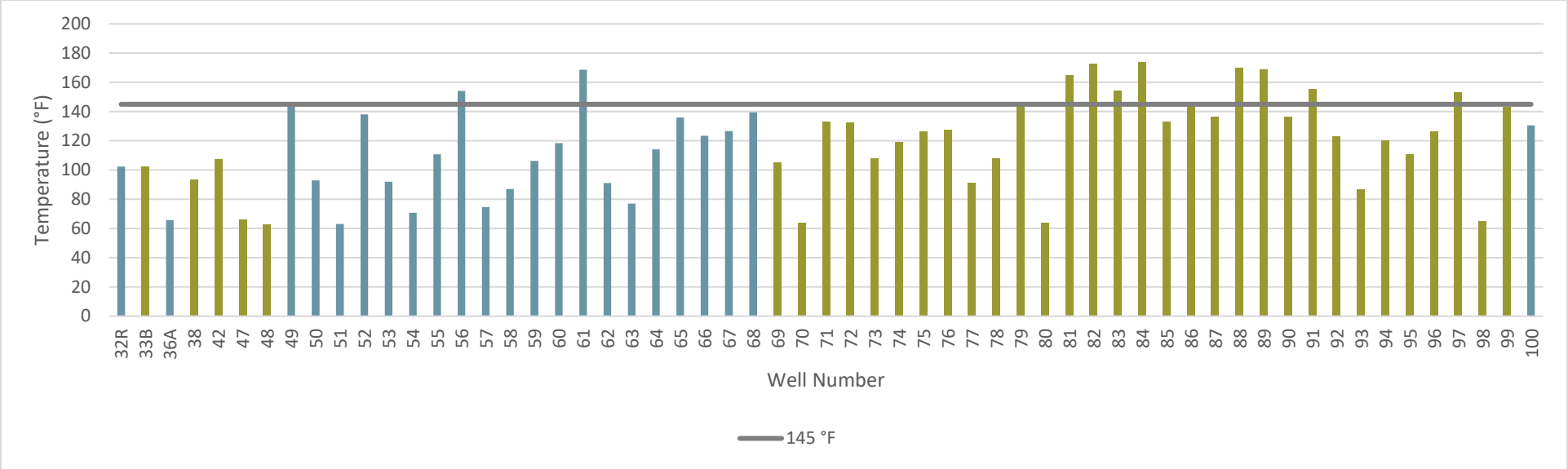
The City is providing the minimum, maximum, and average daily temperature recorded by each sensor to VDEQ on a daily basis via email. Minimum, maximum, and average daily temperatures recorded by the remote monitoring system during the month of February are included in Appendix C. In addition, SCS previously 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 April 2025.

1.3.1 Automated Wellhead Temperature Measurements

SCS reviewed the automated hourly temperature measurements from April 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 are 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.
- Maintenance:
    - The battery in the sensor at EW-55 was replaced.
    - The temperature sensors from EW-58 and EW-60 were pulled, cleaned, and evaluated for performance. The sensor from EW-58 showed a 10-degree difference in ice bath temperature and a 20-degree difference in the wellhead temperature. This sensor is being sent to the manufacturer for further troubleshooting. The sensor from EW-60 showed a 3-degree difference in an ice bath temperature and a 6-degree difference in the wellhead temperature.
    - The sample ports were restructured on EW-79 and EW-92 to increase proximity of manual and automatic sensor locations.

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.

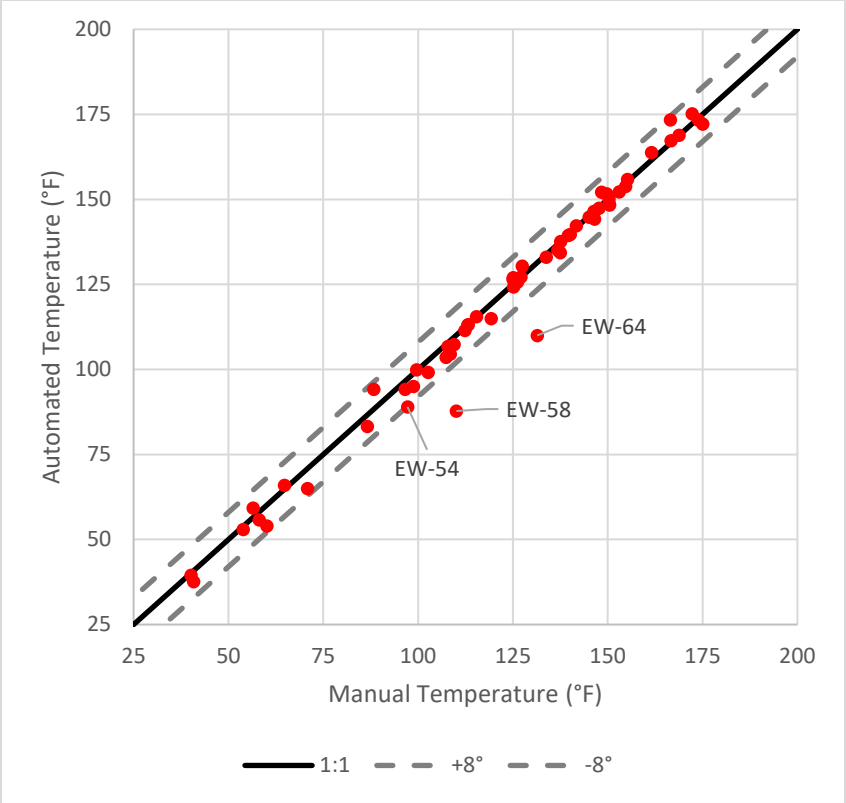
Temperatures outside the ±8°F deviation lines were observed at 3 wells during this reporting period: EW-54, EW-58, and EW-64. At all 3 wells the automated temperature was less than the manually measured temperatures.

As discussed in Section 1.3.1 the deviation is likely a calibration issue that is being managed as described in that section. For the other 2 sensors, a potential cause of automated temperatures falling below manual 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-54 and EW-64 were less than 10 cfm during manual temperature measurements in April. The temperature at EW-54 was very close to the threshold and may simply be an anomaly. Further investigation may be merited if this discrepancy worsens. SCS-FS replaced the wellhead at EW-64 in late April to decrease the influence of ambient temperature on the automated sensor.

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 April 8, 2025 to comply with 40 CFR 60.36f(a)(5). Table 3 provides the status of exceedances recorded during this monitoring period.

Table 3. April Temperature Exceedance Summary

Well ID	Initial Exceedance Date	Compliant Reading	Most Recent Reading	Duration of Exceedance	Status as of 5/1/2025
EW-68	4/8/25	4/10/25 141.1°F	4/21/25 142.4°F	3 days	Resolved within 15-day timeline
EW-79	4/8/25	N/A	4/23/25 150.3°F	24 days	Ongoing, within 60-day timeline

1.3.4 LFG Sampling

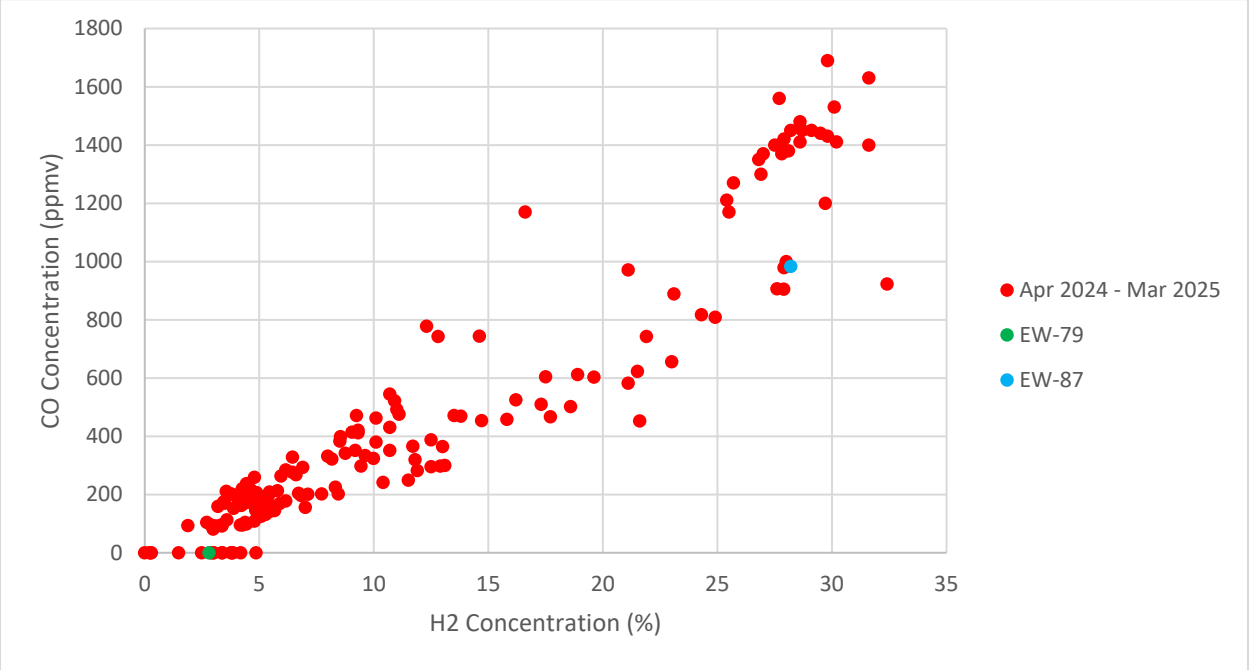
SCS collected weekly LFG samples from wells with temperature exceedances lasting more than seven days using 1.5-L Summa canisters. The samples were sent to Enthalpy Analytical for laboratory analysis of carbon monoxide (CO) and hydrogen (H_2) content. As of May 1, 2025, the City has received lab results for sampling on March 21, 2025 and April 10, 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		3/21/25	4/10/25
EW-79	CO (ppmv)		ND
	H2 (Vol. %)		2.80
EW-87	CO (ppmv)	983	
	H2 (Vol. %)	28.2	

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 and 2025.

Figure 4. CO vs H_2 Concentration from gas wells in April 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. SCS-FS collected monitoring data at each wellhead under vacuum in April. 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 [%]
4/15/2025, 4/16/2025	3.9	7.0	16.9	72.2
4/29/2025	5.0	6.7	15.7	72.7

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.

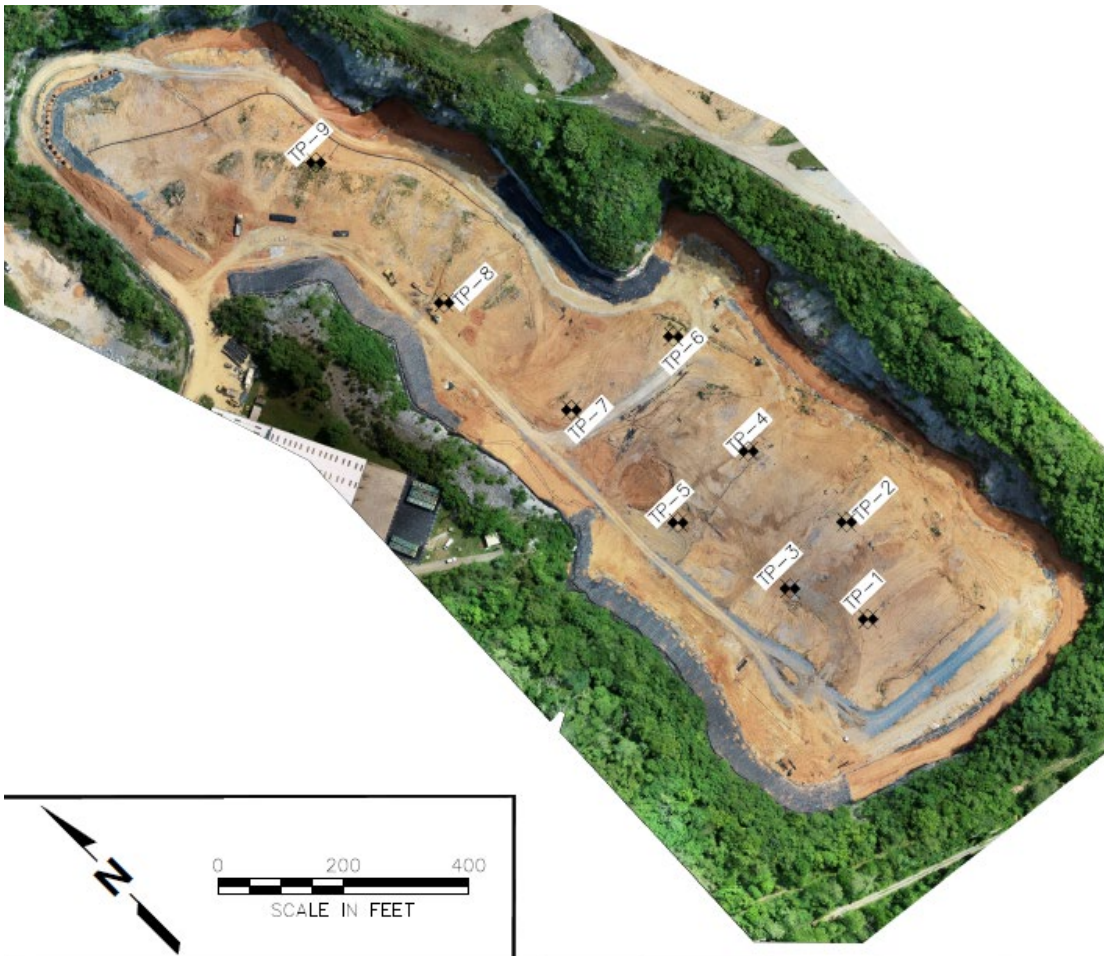
3.0 WASTE TEMPERATURE MONITORING

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 April 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 April are shown in Appendix B. The average temperatures recorded for March 2023, March 2024, March 2025, and April 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, March 2025, and April 2025

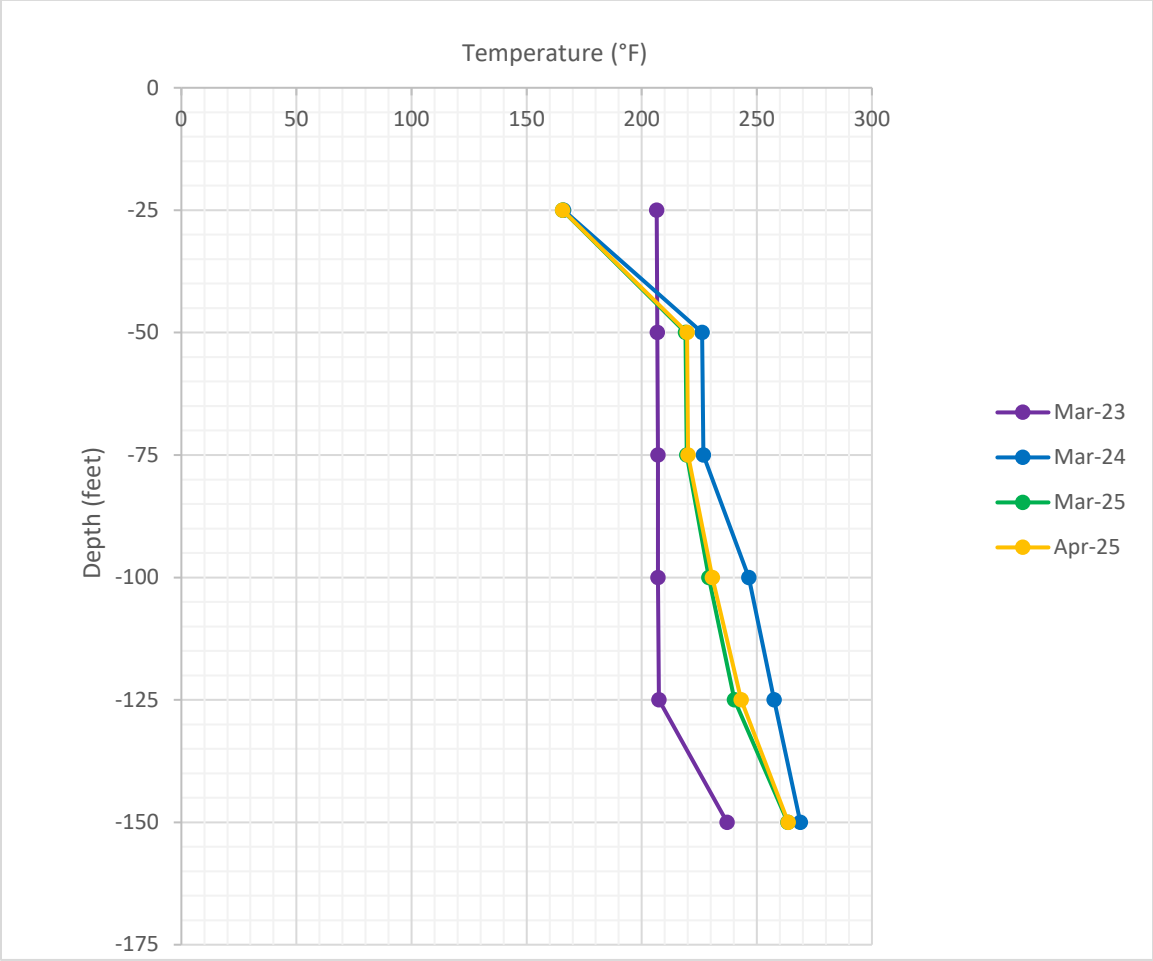


Figure 7. TP-3 Average Temperatures for the Months of March 2023, March 2024, March 2025, and April 2025

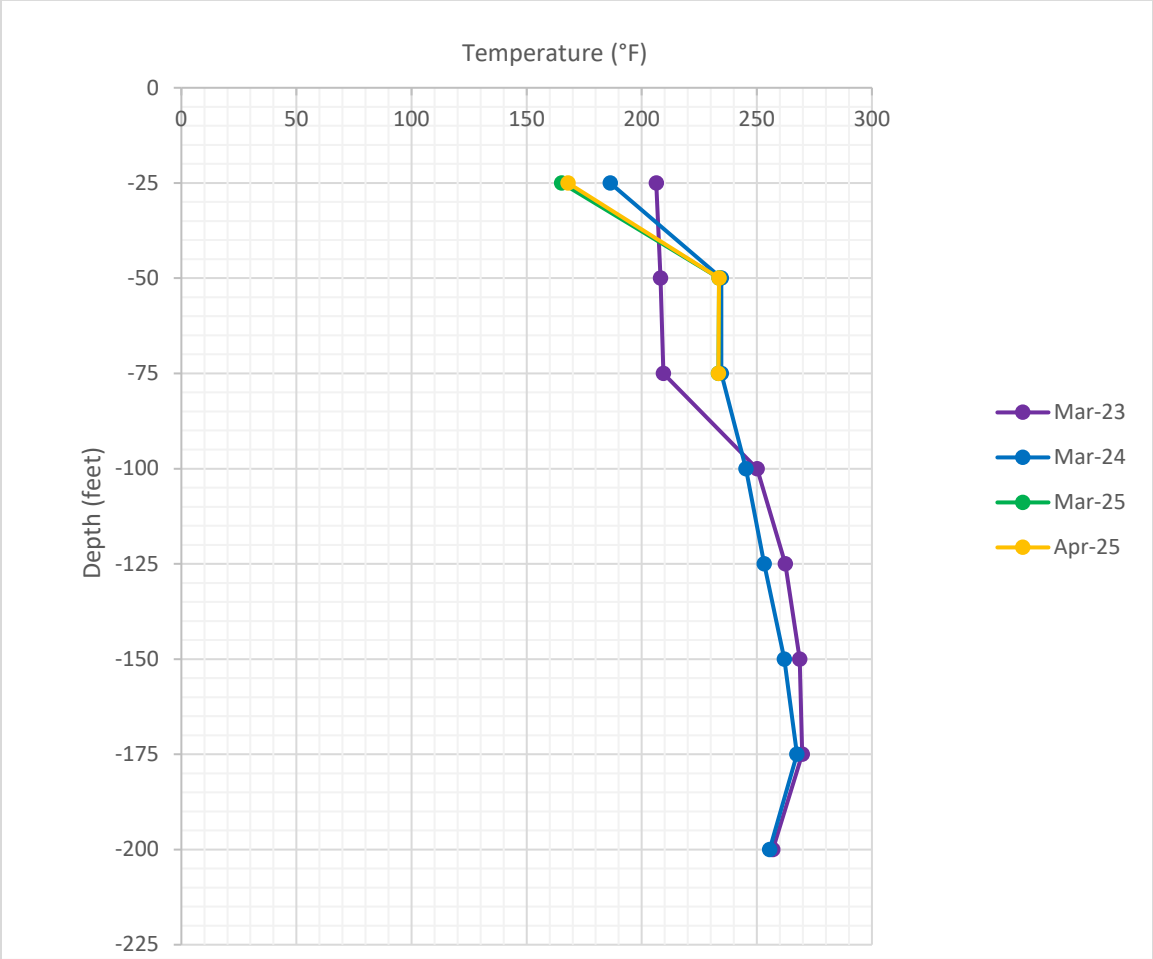


Figure 8. TP-6 Average Temperatures for the Months of March 2023, March 2024, March 2025, and April 2025

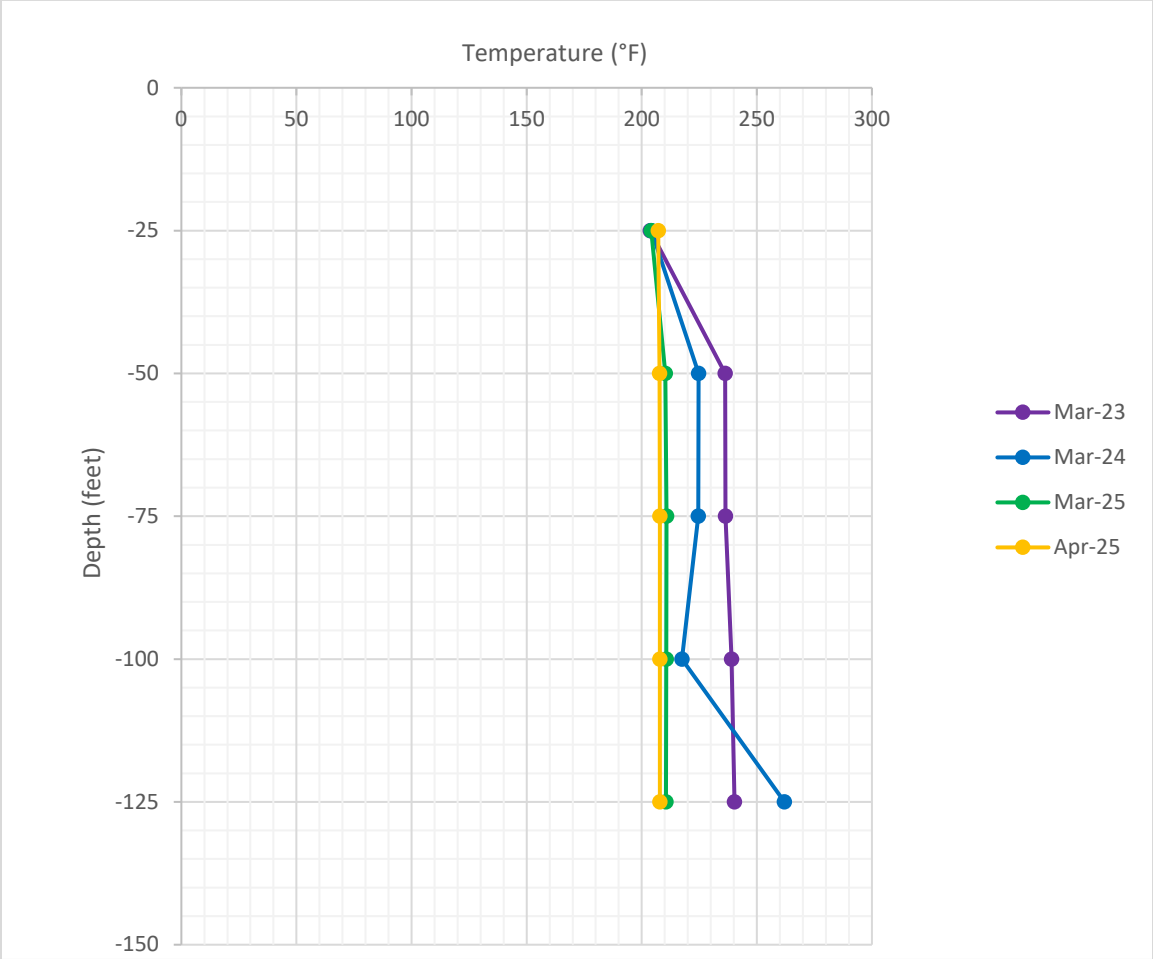


Figure 9. TP-8 Average Temperatures for the Months of March 2023, March 2024, March 2025, and April 2025

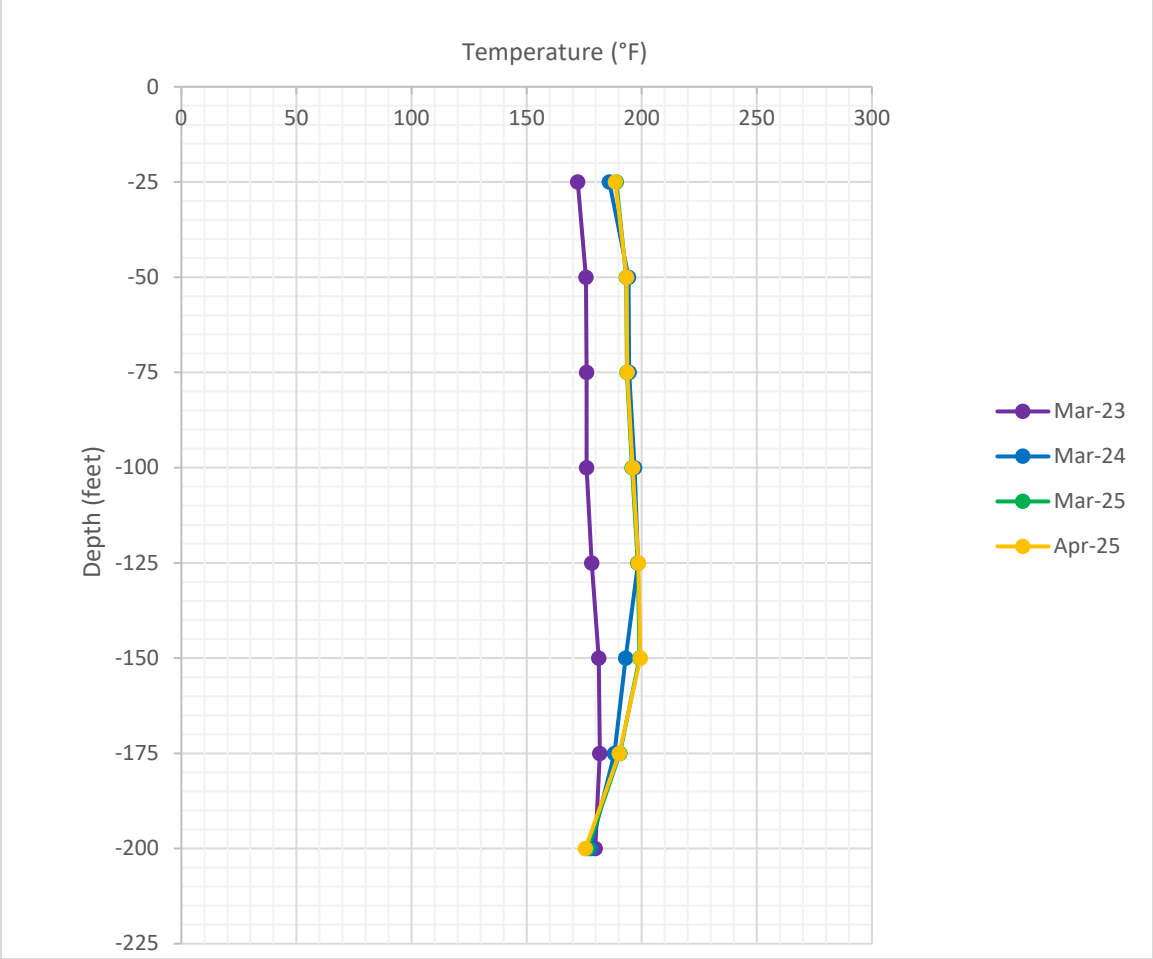
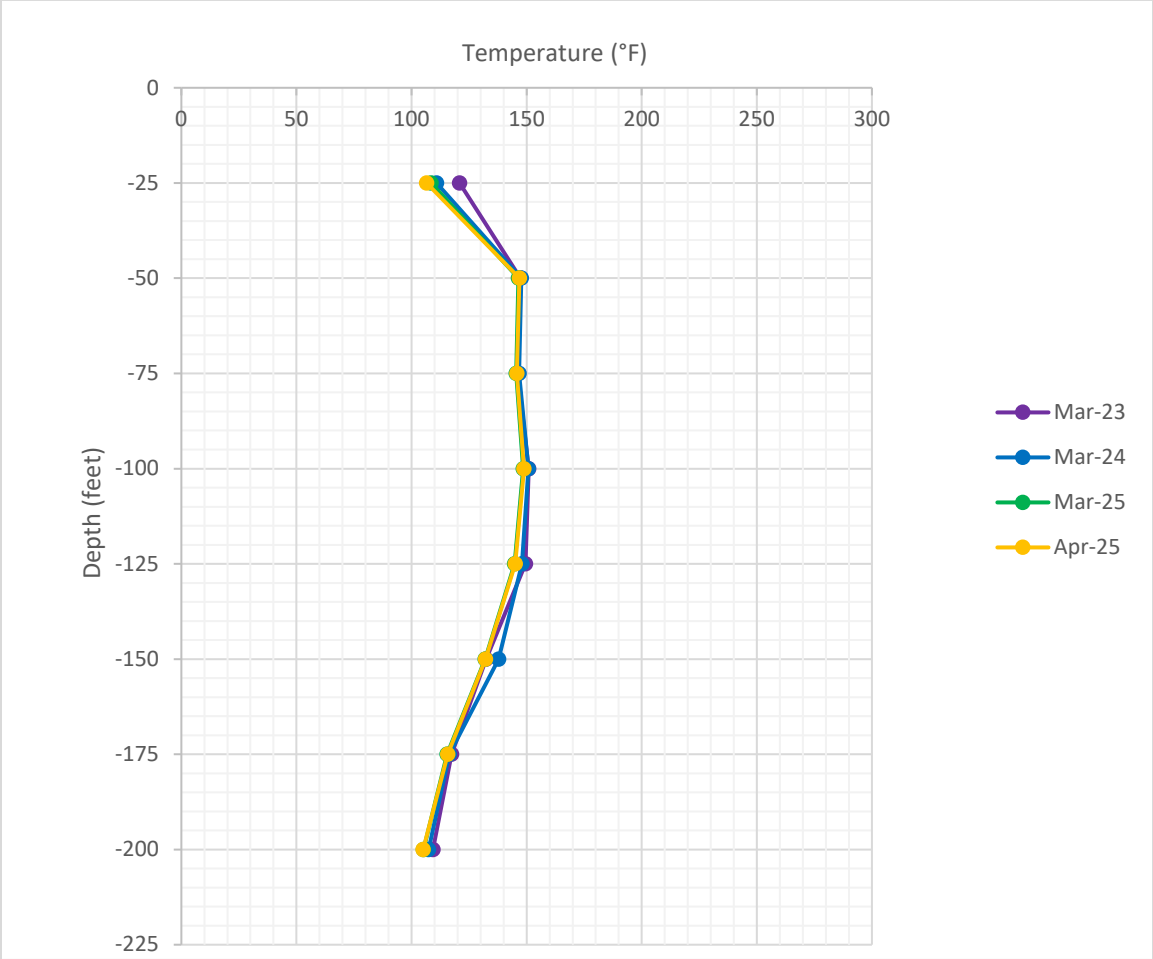


Figure 10. TP-9 Average Temperatures for the Months of March 2023, March 2024, March 2025, and April 2025



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, March 2025, and April 2025

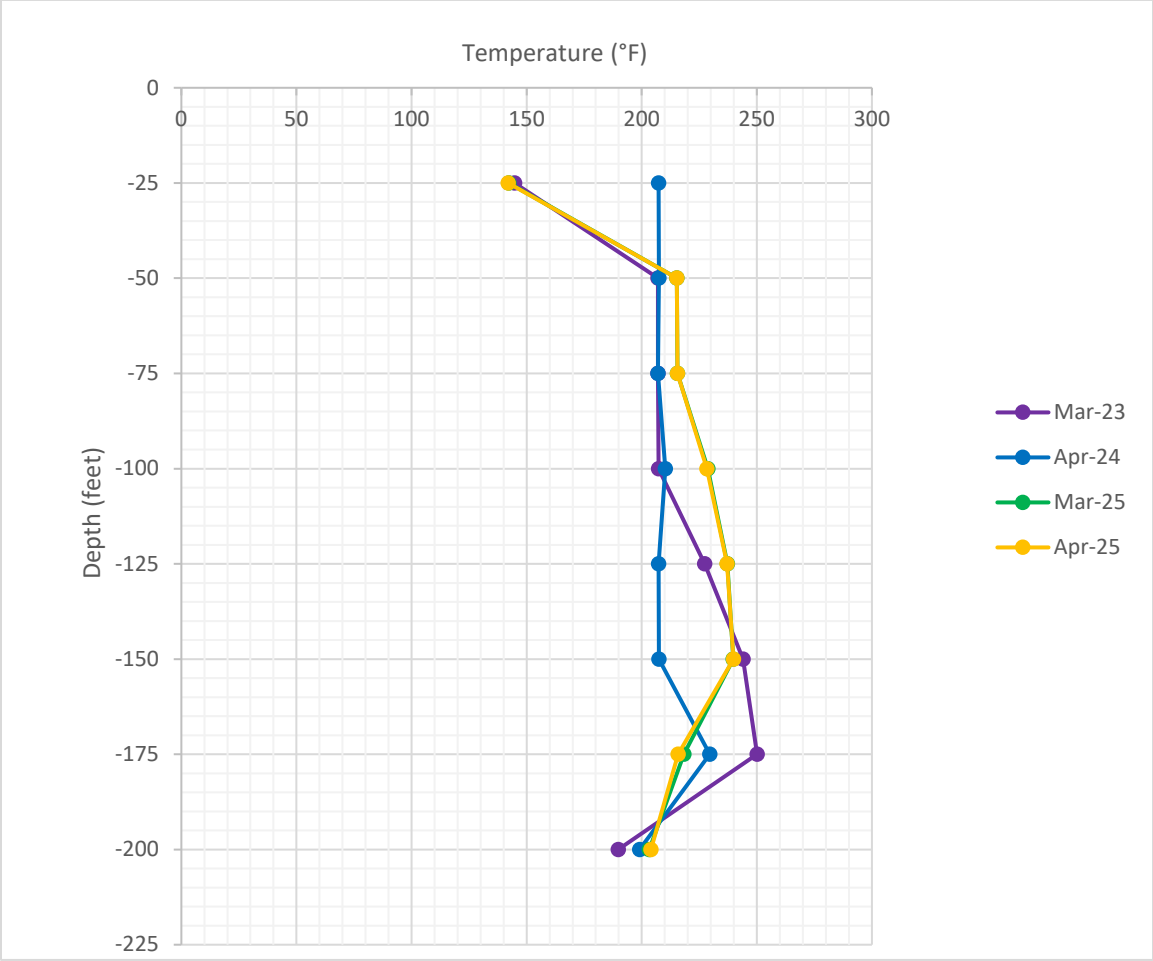
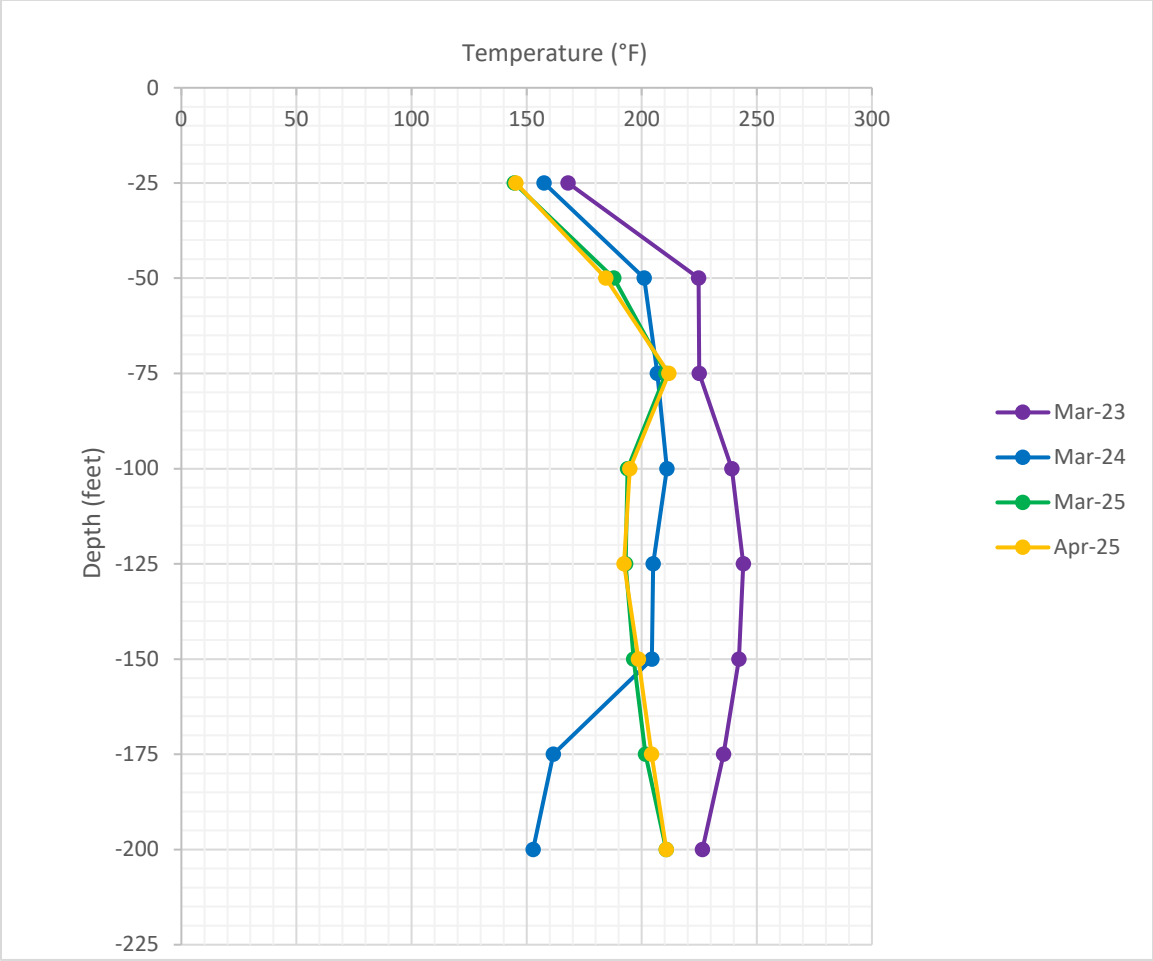


Figure 12. TP-7 Average Temperatures for the Months of March 2023, March 2024, March 2025, and April 2025



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

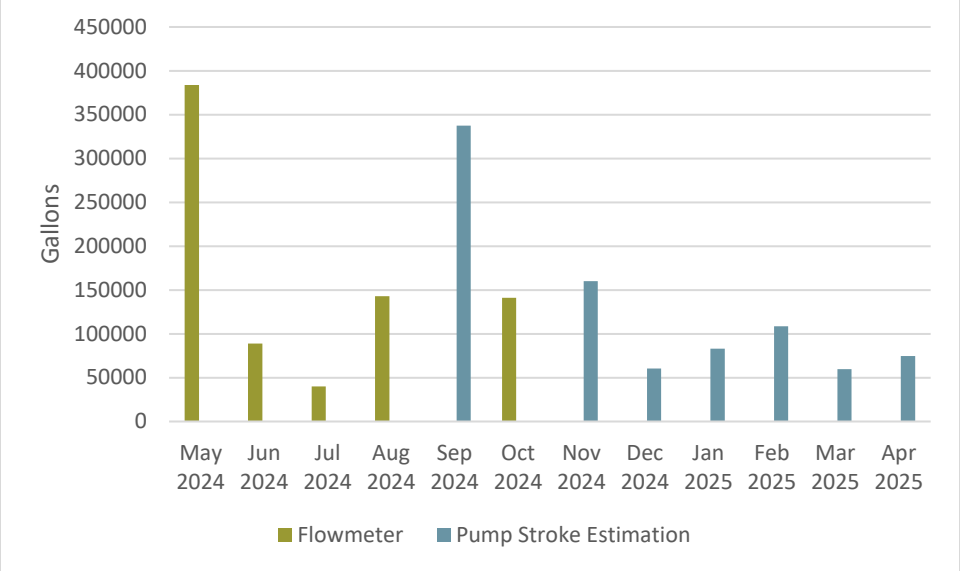
4.1.1 Total LFG Liquids Removal

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 April 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 75,000 gallons of liquid were pumped out of the landfill in April.

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-59, RE-60, EW-61, EW-65, EW-68, EW-78, EW-85, EW-88, EW-93, EW-94, EW-98
  - The pump in EW-59 was swapped in March.
  - The pump in EW-85 was put back in service in March.
  - The pump in EW-93 was swapped in March for cleaning and tri-tubing was replaced.

Inaccessible Pumps/Wells

- The pumps in EW-33B, EW-76, and EW-87 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.
- The casings of EW-36A, EW-49, EW-81, EW-83, EW-91, 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.
  - Soil was added around EW-36A in April, and SCS-FS intends to replace the Blackhawk pump with a QED.

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 167 gallons of liquid during the month of April 2025. The airline was unable to be disconnected to de-energize the pump in April 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-61 was reinstalled in April.

- 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 disconnected and scheduled to be removed, inspected by SCS-FS in May.

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 April 2, 2025, SCS collected a leachate sample from three Dual Phase LFG extraction wells (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 April 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-50, EW-52, EW-53, EW-59, EW-64, EW-65, EW-78, EW-81, EW-85, and EW-98. • Pump was disconnected or off at the time of monitoring for EW-36A, EW-49, EW-54, EW-55, EW-67, EW-82, EW-83, EW-93, and EW-96. • Pump was not running and the liquid depth was not measured at the time of monitoring for EW-62 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-63, EW-87, EW-88, and EW-89.	• There was no pump at the time of the monitoring for the following wells: EW-61, 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, and EW-76. • 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 April 2025 monitoring event. The laboratory analysis report for the April 2025 monitoring event trip blank is included in **Appendix F**. The April 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

[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.

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 April 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 April 2025 leachate samples collected from extraction wells EW-60 and EW-68 are summarized in Table 7. The associated COA is included in Appendix F. Parameter results from April 2025 and previous monitoring events (November 2022 – March 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-60	EW-68	LOD	LOQ
Parameter	**April 2025 Concentration**			
Ammonia as N (mg/L)	**2440**	**2580**	146	200
Biological Oxygen Demand (mg/L)	**33900**	**24600**	0.2	2
Chemical Oxygen Demand (mg/L)	**47900**	**24100**	6300	10000
Nitrate as N (mg/L)	ND	---	0.5	1.25
	---	ND	1	5
Nitrite as N (mg/L)	ND	---	0.25	1.25
	---	**7.6**	1	5
Total Recoverable Phenolics (mg/L)	---	**35**	0.75	1.25
	43	---	1.5	2.5
Total Kjeldahl Nitrogen (mg/L)	---	**2600**	45.9	250
	2240	---	80	200
SEMI-VOLATILE ORGANIC COMPOUND (ug/L)				
Anthracene	---	ND	100	200
	ND	---	200	400
TOTAL METALS (mg/L)				
Arsenic	**0.246**	**0.217**	0.01	0.02
Barium	**1.96**	**2.95**	0.005	0.01
Cadmium	**0.0284**	ND	0.002	0.004
Chromium	**0.248**	**0.143**	0.008	0.01
Copper	ND	**0.009 J**	0.008	0.01
Lead	**0.132**	**0.0207**	0.006	0.01
Mercury	**0.00169**	ND	0.001	0.001
Nickel	**0.0161**	**0.0713**	0.007	0.01
Selenium	ND	ND	0.04	0.05
Silver	**0.007 J**	ND	0.005	0.01

Table 7. Monthly LFG-EW Leachate Monitoring Event Summary

Well ID	EW-60	EW-68	LOD	LOQ
Parameter	April 2025 Concentration			
TOTAL METAL (mg/L)				
Zinc	---	**0.0297**	0.01	0.01
	0.366	---	0.05	0.05
VOLATILE ORGANIC COMPOUNDS (ug/L)				
2-Butanone	**20800**	**28100**	150	500
Acetone	**61200**	**78000**	3500	5000
Benzene	**938**	**1540**	20	50
Ethylbenzene	**52.5**	**73.5**	20	50
Tetrahydrofuran	**3660**	**5920**	500	500
Toluene	**51**	**114**	25	50
Xylenes	**87.5 J**	**144 J**	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 April 16, 2025. Aerial imagery collected on April 16, 2025, is depicted in Figure 16. The topographic data collected is shown on Sheet 4 in Appendix E.

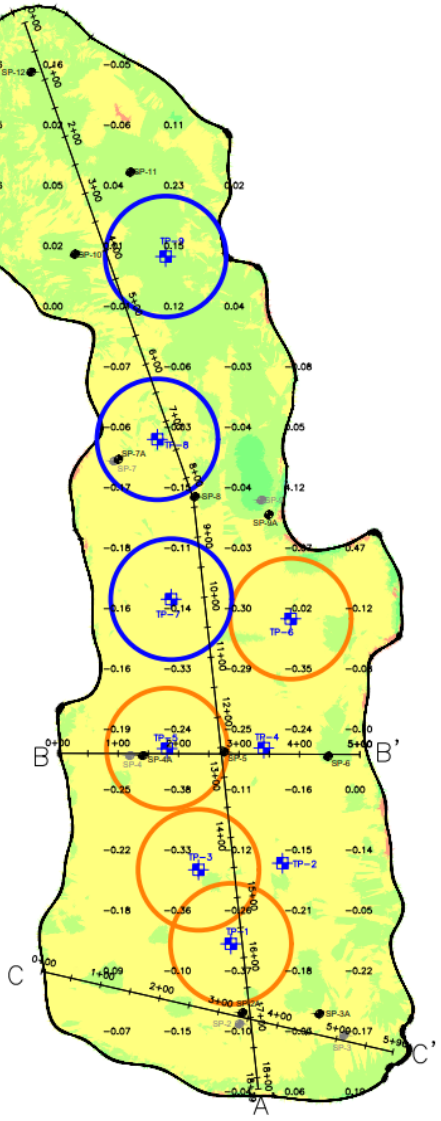
Figure 16. Aerial Photo of the SWP No. 588 Landfill

The topography within the landfill footprint was compared to topographic data collected by SCS using photogrammetric methods on March 11, 2025. A drawing depicting the March 11, 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 1,600 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 3,500 cubic yards. Cut volumes are typically attributed to settlement. This resulted in a net volume decrease of approximately 2,000 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



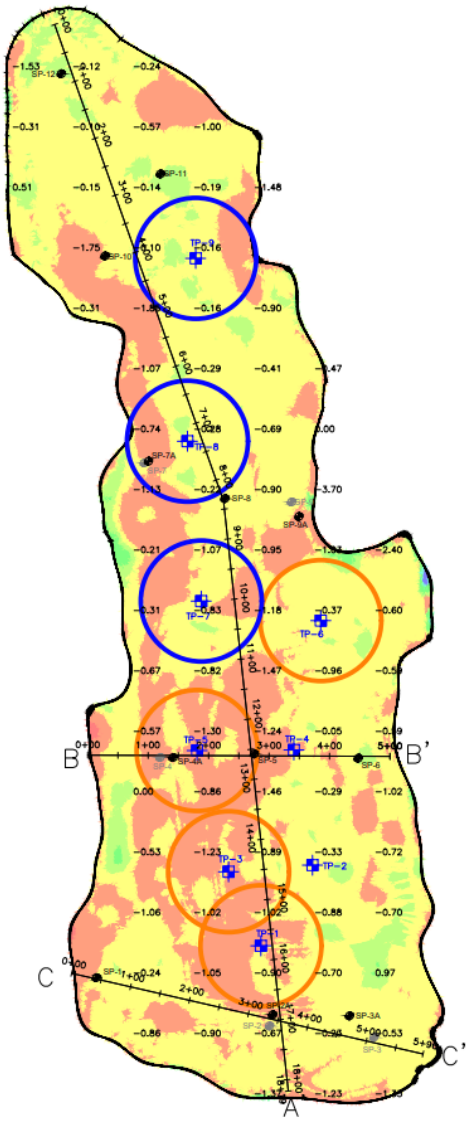
The locations of in-waste temperature monitoring probes are also shown on Figure 17, Figure 18, and Figure 19. The circles around the probes in each of these figures are indicative of the average borehole temperature. The circles shown are offset from the probes for clarity only and do not necessarily 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 April 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 April to the topographic data collected on January 14, 2025. Based on a comparison of the topographic data collected on those two dates, settlement occurred that reduced the volume of waste in the landfill by approximately 20,400 cubic yards. During that same time period calculations indicate approximately 700 cubic yards of fill were placed on the landfill, for a net decrease in waste volume of 20,800 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

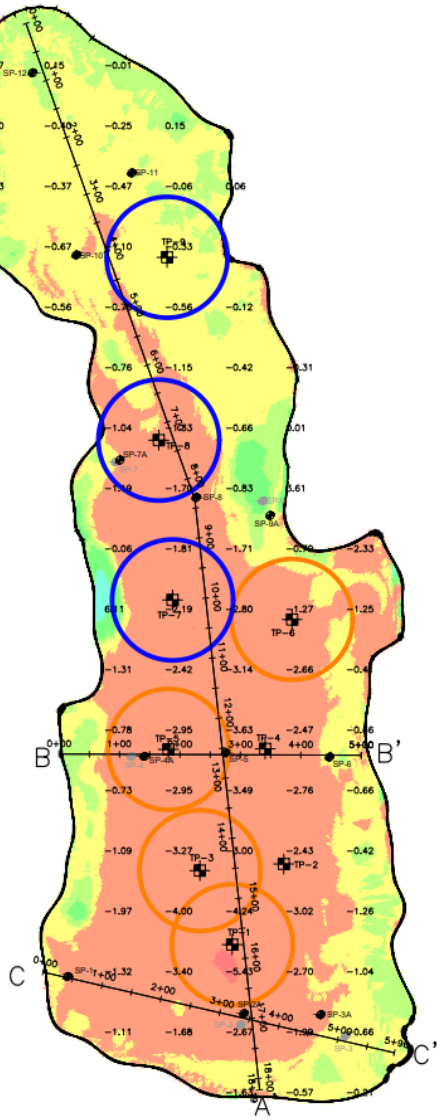


Based on the area of the landfill and the net volume change, the average elevation decrease was approximately 0.7 feet.

SCS also compared the topographic data collected in April 2025 to the drone topographic data collected on April 24, 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 1,800 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 36,800 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.

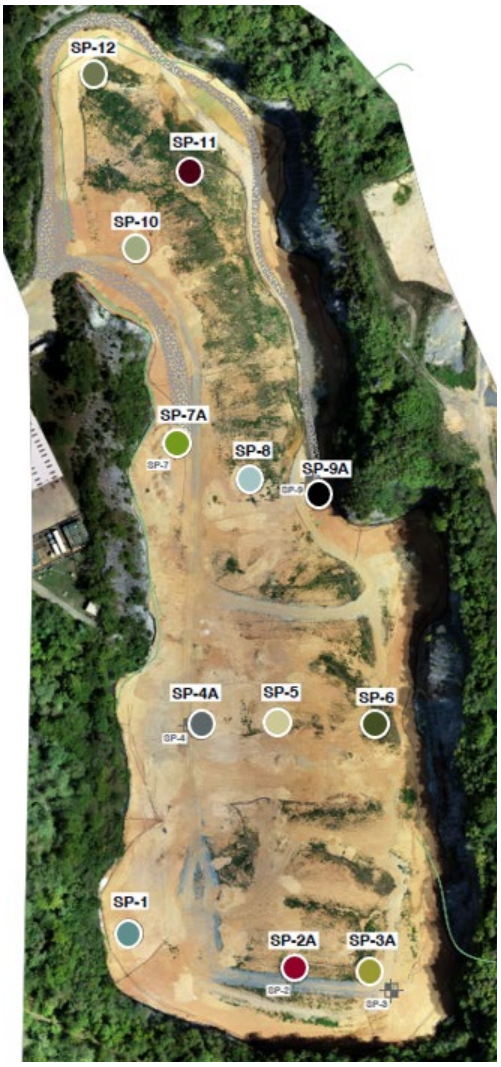
Based on the landfill area and the net volume change, the average elevation decrease was approximately 1.3 feet.

SCS will collect topographic data covering the landfill surface again in May using photogrammetric methods via UAV. This data will be compared to the data collected in May 2024, February 2025, and April 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 Apr. 24, 2025 (ft)	Elevation Change Since Mar. 18, 2025 (ft)	Strain[3] Since Mar. 18, 2024	Elevation Change Since Installation (ft)
SP-1	3397887.6	10,412,080.8	1,828.8	-0.13	-0.2%	-5.6
SP-2A	3,397,823.1	10,412,370.6	1,793.2	-0.27	-0.2%	-2.5

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

Settlement Plate	Northing	Easting	Elevation on Apr. 24, 2025 (ft)	Elevation Change Since Mar. 18, 2025 (ft)	Strain[3] Since Mar. 18, 2024	Elevation Change Since Installation (ft)
SP-3A	3,397,820.2	10,412,498.3	1,779.3	-0.05	-0.1%	-0.9
SP-4A	3,398,247.0	10,412,207.1	1,802.9	-0.29	-0.2%	-2.3
SP-5	3,398,255.9	10,412,339.6	1,788.5	-0.31	-0.1%	-12.2
SP-6	3,398,248.7	10,412,509.9	1,773.0	-0.04	0.0%	-4.6
SP-7A	3,398,731.6	10,412,158.1	1,822.3	-0.19	-0.1%	-1.1
SP-8	3,398,678.2	10,412,290.9	1,799.8	-0.21	-0.1%	-7.5
SP-9A	3,398,644.2	10,412,416.2	1,788.2	-0.07	-0.1%	-0.6
SP-10	3,399,080.2	10,412,093.3	1,836.9	-0.13	0.0%	-3.3
SP-11	3,399,216.4	10,412,183.9	1,814.5	-0.07	0.0%	-1.8
SP-12	3,399,381.7	10,412,019.6	1,809.8	-0.02	0.0%	-0.9

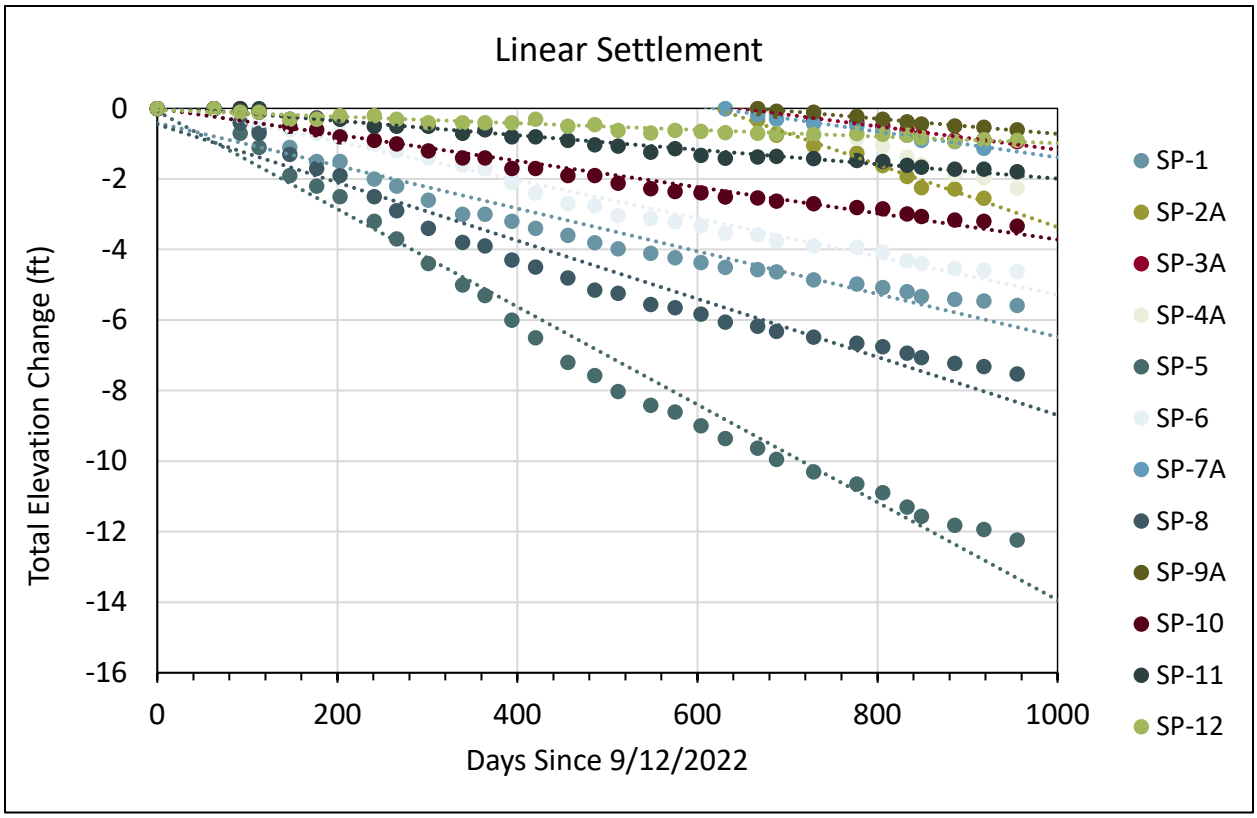
Prior to April 2024, the City's in-house surveyor read the settlement plate elevations. Starting April 2024, the settlement plate elevations were measured by FEI Civil Engineers and Land Surveyors.

Settlement Plates 1, 2A and 4A demonstrated larger strains due to settlement than at other locations. Settlement Plates 1 and 4A are 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 strains at the other settlement plates were lower during this monthly measurement period compared to Settlement Plates, 1, 2A, and 4A.

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.

Figure 21. Elevation Change of Select Settlement Plates Over Time



The settlement plates will be surveyed again during May 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 sections below describe the steps taken by the City and future plans related to cover.

6.1 INTERMEDIATE COVER INSTALLATION

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

6.2 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 April 10, 2025. The next assessment will be submitted on or before July 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 April 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 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 2025 surface emissions monitoring event on March 7, 2025. The results of the Quarterly SEM were summarized in the March 2025 Compliance Report for the SWP No. 588 Landfill. A report outlining the results and exceedance locations will be included in the Semi-Annual Report to be submitted to VDEQ prior to September 1, 2025.

The Second Quarter 2025 SEM Event is scheduled to be completed by June 30, 2025.

Weekly SEM

In addition to the standard regulatory quarterly surface emissions monitoring, the monitoring in April 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 April monitoring events on April 9, 2025; April 16, 2025; April 23, 2025; April 30, 2025; and May 7, 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.

April 9, 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 – April 1, 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 April 1, 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	3
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	3

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.

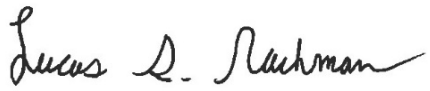
A summary of ongoing exceedance points is provided in Table 2.

Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	4/1/25 Event	4/1/25 Event Result	Comments
EW-66	2/24/25	N/A	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-54	2/24/25	N/A	Passed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-53	2/24/25	1-Month Retest Follow-Up	Passed	Exceedance Resolved
EW-67	3/11/25	N/A	Failed	Requires 2nd 10-Day Retest
EW-49	3/17/25	N/A	Passed	Requires 1-Month Retest
EW-85	3/17/25	N/A	Passed	Requires 1-Month Retest
EW-52	3/27/25	10-Day Retest	Passed	Requires 1-Month Retest
EW-75	3/27/25	10-Day Retest	Passed	Requires 1-Month Retest
EW-82	3/27/25	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
Project 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 - APRIL 1, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	1.7 PPM	OK			Start Serpentine Route
2	1.6 PPM	OK			
3	4.0 PPM	OK			
4	1.6 PPM	OK			
5	1.6 PPM	OK			
6	1.6 PPM	OK			
7	1.6 PPM	OK			
8	1.5 PPM	OK			
9	1.5 PPM	OK			
10	1.5 PPM	OK			
11	1.5 PPM	OK			
12	1.5 PPM	OK			
13	1.6 PPM	OK			
14	1.5 PPM	OK			
15	1.9 PPM	OK			
16	25.3 PPM	OK			
17	2.4 PPM	OK			
18	2.4 PPM	OK			
19	2.4 PPM	OK			
20	1.8 PPM	OK			
21	2.9 PPM	OK			
22	5.3 PPM	OK			
23	3.0 PPM	OK			
24	1.5 PPM	OK			
25	1.6 PPM	OK			
26	1.5 PPM	OK			
27	1.7 PPM	OK			
28	1.5 PPM	OK			
29	1.7 PPM	OK			
30	1.6 PPM	OK			
31	7.0 PPM	OK			
32	10.7 PPM	OK			
33	47.5 PPM	OK			
34	114.0 PPM	OK			
35	10.2 PPM	OK			
36	92.3 PPM	OK			
37	115.0 PPM	OK			
38	3.1 PPM	OK			
39	45.1 PPM	OK			
40	14.0 PPM	OK			
41	6.6 PPM	OK			
42	1.9 PPM	OK			
43	14.9 PPM	OK			
44	3.7 PPM	OK			
45	9.0 PPM	OK			
46	4.5 PPM	OK			
47	2.7 PPM	OK			

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

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	4.1 PPM	OK			
49	2.6 PPM	OK			
50	5.3 PPM	OK			
51	1.2 PPM	OK			
52	1.2 PPM	OK			
53	1.2 PPM	OK			
54	1.2 PPM	OK			
55	1.1 PPM	OK			
56	1.1 PPM	OK			
57	1.7 PPM	OK			
58	3.2 PPM	OK			
59	1.3 PPM	OK			
60	1.3 PPM	OK			
61	1.2 PPM	OK			
62	1.1 PPM	OK			
63	1.0 PPM	OK			
64	1.3 PPM	OK			
65	1.2 PPM	OK			
66	1.6 PPM	OK			
67	2.1 PPM	OK			
68	0.9 PPM	OK			
69	1.2 PPM	OK			
70	1.7 PPM	OK			
71	5.5 PPM	OK			
72	1.0 PPM	OK			
73	1.0 PPM	OK			
74	3.3 PPM	OK			
75	2.3 PPM	OK			
76	88.9 PPM	OK			
77	1.1 PPM	OK			
78	3.1 PPM	OK			
79	0.9 PPM	OK			
80	1.4 PPM	OK			
81	1.0 PPM	OK			
82	1.8 PPM	OK			
83	3.9 PPM	OK			
84	269.0 PPM	OK			
85	3.3 PPM	OK			
86	22.5 PPM	OK			
87	1.6 PPM	OK			
88	1.0 PPM	OK			
89	1.8 PPM	OK			
90	2.3 PPM	OK			
91	1.2 PPM	OK			
92	1.5 PPM	OK			
93	1.4 PPM	OK			
94	3.2 PPM	OK			

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

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	4.3 PPM	OK			
96	4.0 PPM	OK			
97	1.2 PPM	OK			
98	9.0 PPM	OK			
99	1.4 PPM	OK			
100	1.2 PPM	OK			End Serpentine Route
101	393.0 PPM	OK			EW-52
102	106.0 PPM	OK			TP-4
103	89.8 PPM	OK			EW-60
104	1.1 PPM	OK			EW-48
105	1.0 PPM	OK			TP-6
106	19.3 PPM	OK			EW-61
107	0.6 PPM	OK			EW-50
108	2296.0 PPM	HIGH_ALRM	36.59866	-82.14775	EW-67
109	2.3 PPM	OK			EW-47
110	87.3 PPM	OK			EW-54
111	1.2 PPM	OK			EW-55
112	3.5 PPM	OK			EW-92
113	45.4 PPM	OK			EW-91
114	1.1 PPM	OK			EW-96
115	0.8 PPM	OK			TP-2
116	872.0 PPM	HIGH_ALRM	36.59842	-82.14736	EW-66
117	0.9 PPM	OK			EW-58
118	20.2 PPM	OK			EW-57
119	0.9 PPM	OK			TP-1
120	29.5 PPM	OK			EW-59
121	5.5 PPM	OK			EW-100
122	0.9 PPM	OK			EW-56
123	6.2 PPM	OK			EW-97
124	262.0 PPM	OK			EW-53
125	2.4 PPM	OK			TP-3
126	34.6 PPM	OK			EW-51
127	1.5 PPM	OK			TP-5
128	0.7 PPM	OK			EW-68
129	0.8 PPM	OK			EW-87
130	0.8 PPM	OK			EW-38
131	0.9 PPM	OK			TP-7
132	0.4 PPM	OK			EW-49
133	1.2 PPM	OK			EW-83
134	0.3 PPM	OK			EW-65
135	0.3 PPM	OK			EW-81
136	0.3 PPM	OK			TP-8
137	0.2 PPM	OK			EW-64
138	0.3 PPM	OK			EW-63
139	1.9 PPM	OK			EW-42
140	1654.0 PPM	HIGH_ALRM	36.60126	-82.14804	EW-76

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

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	421.0 PPM	OK			TP-9
142	0.4 PPM	OK			EW-62
143	0.9 PPM	OK			EW-74
144	0.6 PPM	OK			EW-32R
145	0.3 PPM	OK			EW-69
146	0.4 PPM	OK			EW-71
147	0.3 PPM	OK			EW-72
148	0.3 PPM	OK			EW-73
149	0.1 PPM	OK			EW-78
150	2.7 PPM	OK			EW-82
151	0.7 PPM	OK			EW-36A
152	3.6 PPM	OK			EW-85
153	128.0 PPM	OK			EW-88
154	0.8 PPM	OK			EW-89
155	0.2 PPM	OK			EW-93
156	12.5 PPM	OK			EW-94
157	0.5 PPM	OK			EW-98
158	2.5 PPM	OK			EW-99
159	266.0 PPM	OK			EW-95
160	2.7 PPM	OK			EW-90
161	1.4 PPM	OK			EW-86
162	0.2 PPM	OK			EW-84
163	0.3 PPM	OK			EW-80
164	0.2 PPM	OK			EW-79
165	0.4 PPM	OK			EW-77
166	0.6 PPM	OK			EW-33B
167	0.3 PPM	OK			EW-75

Number of locations sampled:	167
Number of exceedance locations:	3

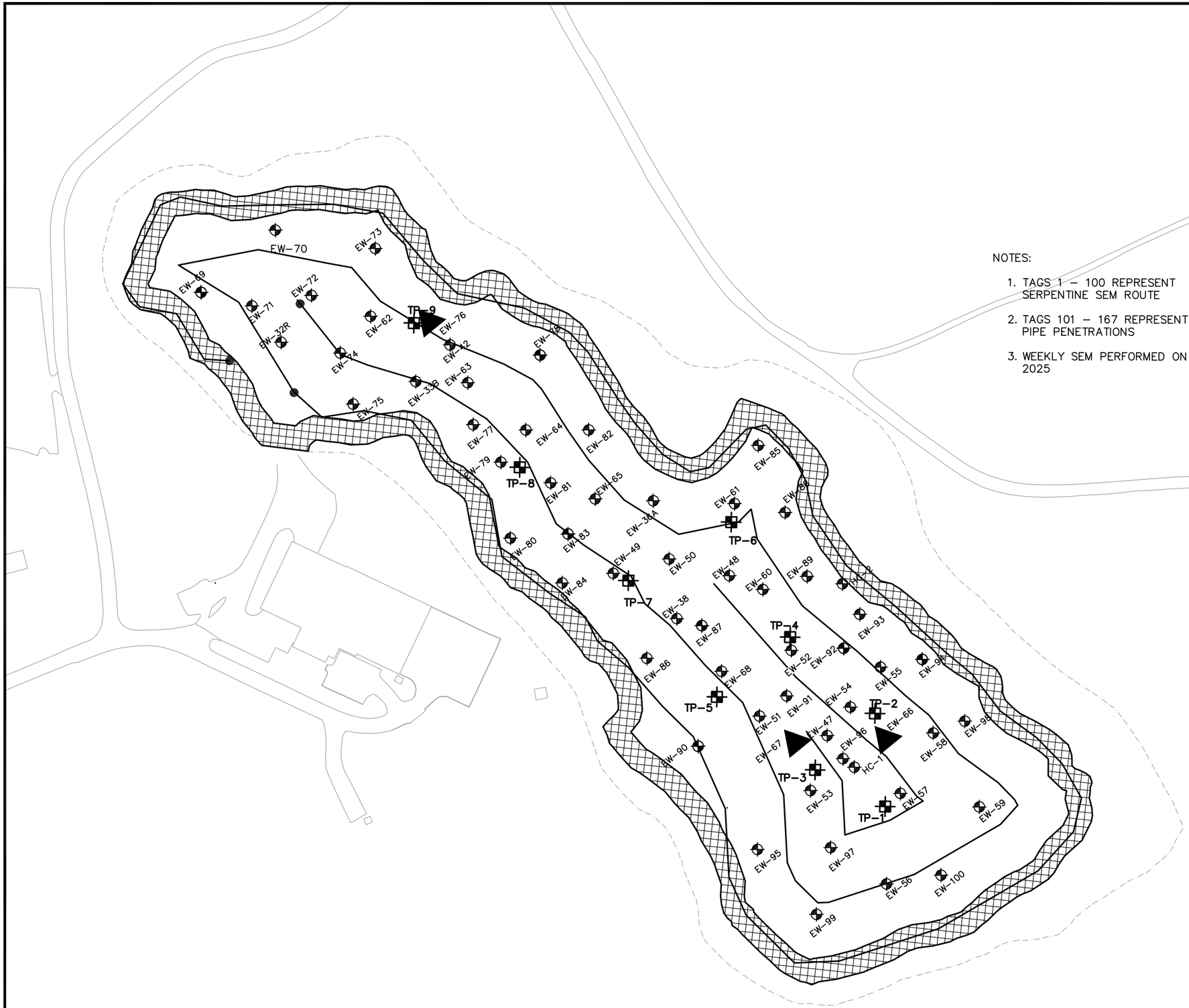
NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 167 represent SEM at Pipe Penetrations
Weather Conditions: Mostly Cloudy, 48°F Wind: 5 MPH N

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

4/1/2025	11:10	ZERO	0.1	PPM
4/1/2025	11:11	SPAN	502.0	PPM

Background Reading:

4/1/2025	11:15	Upwind	1.6	PPM
4/1/2025	11:18	Downwind	2.1	PPM



NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 167 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON APRIL 1, 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.
15821 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX. (804) 378-7433

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

FILE: 02218208.04
DATE: 4/1/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

April 16, 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 – April 8, 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 April 8, 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	0
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	0

REMONITORING OF ONGOING EXCEEDANCES

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

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

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

Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	4/8/25 Event	4/8/25 Event Result	Comments
EW-54	2/24/25	N/A	Passed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-66	2/24/25	N/A	Passed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-67	3/11/25	1-Month Retest	Passed	Exceedance Resolved
EW-49	3/17/25	N/A	Passed	Requires 1-Month Retest
EW-85	3/17/25	N/A	Passed	Requires 1-Month Retest
EW-52	3/27/25	N/A	Passed	Requires 1-Month Retest
EW-75	3/27/25	N/A	Passed	Requires 1-Month Retest
EW-82	3/27/25	N/A	Passed	Requires 1-Month Retest
EW-76	4/1/25	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
Project 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 - APRIL 8, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	1.4 PPM	OK			Start Serpentine Route
2	1.4 PPM	OK			
3	1.4 PPM	OK			
4	1.3 PPM	OK			
5	1.3 PPM	OK			
6	1.3 PPM	OK			
7	1.3 PPM	OK			
8	1.3 PPM	OK			
9	1.3 PPM	OK			
10	1.3 PPM	OK			
11	1.2 PPM	OK			
12	1.3 PPM	OK			
13	1.2 PPM	OK			
14	1.2 PPM	OK			
15	1.2 PPM	OK			
16	1.2 PPM	OK			
17	1.3 PPM	OK			
18	1.4 PPM	OK			
19	1.4 PPM	OK			
20	1.4 PPM	OK			
21	1.2 PPM	OK			
22	1.1 PPM	OK			
23	1.2 PPM	OK			
24	1.1 PPM	OK			
25	1.2 PPM	OK			
26	0.8 PPM	OK			
27	0.9 PPM	OK			
28	1.4 PPM	OK			
29	1.8 PPM	OK			
30	1.0 PPM	OK			
31	3.0 PPM	OK			
32	7.6 PPM	OK			
33	1.4 PPM	OK			
34	4.6 PPM	OK			
35	25.0 PPM	OK			
36	285.0 PPM	OK			
37	2.1 PPM	OK			
38	1.2 PPM	OK			
39	2.5 PPM	OK			
40	1.1 PPM	OK			
41	1.2 PPM	OK			
42	0.8 PPM	OK			
43	0.8 PPM	OK			
44	0.9 PPM	OK			
45	0.8 PPM	OK			
46	1.2 PPM	OK			
47	0.7 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 8, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	0.7 PPM	OK			
49	0.6 PPM	OK			
50	0.6 PPM	OK			
51	0.6 PPM	OK			
52	0.6 PPM	OK			
53	0.6 PPM	OK			
54	0.7 PPM	OK			
55	0.7 PPM	OK			
56	0.6 PPM	OK			
57	0.7 PPM	OK			
58	0.8 PPM	OK			
59	3.1 PPM	OK			
60	0.9 PPM	OK			
61	1.0 PPM	OK			
62	1.1 PPM	OK			
63	0.8 PPM	OK			
64	0.6 PPM	OK			
65	1.0 PPM	OK			
66	0.8 PPM	OK			
67	0.7 PPM	OK			
68	0.7 PPM	OK			
69	0.6 PPM	OK			
70	0.7 PPM	OK			
71	1.1 PPM	OK			
72	0.7 PPM	OK			
73	1.0 PPM	OK			
74	6.4 PPM	OK			
75	0.9 PPM	OK			
76	0.5 PPM	OK			
77	0.9 PPM	OK			
78	0.8 PPM	OK			
79	34.2 PPM	OK			
80	2.2 PPM	OK			
81	1.2 PPM	OK			
82	7.6 PPM	OK			
83	0.5 PPM	OK			
84	0.5 PPM	OK			
85	0.5 PPM	OK			
86	0.5 PPM	OK			
87	0.5 PPM	OK			
88	0.3 PPM	OK			
89	0.3 PPM	OK			
90	0.3 PPM	OK			
91	0.5 PPM	OK			
92	0.7 PPM	OK			
93	0.5 PPM	OK			
94	0.5 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 8, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	15.7 PPM	OK			
96	0.6 PPM	OK			
97	0.6 PPM	OK			
98	0.8 PPM	OK			
99	1.1 PPM	OK			
100	0.7 PPM	OK			End Serpentine Route
101	218.0 PPM	OK			EW-52
102	0.7 PPM	OK			TP-4
103	9.2 PPM	OK			EW-60
104	0.3 PPM	OK			EW-48
105	0.4 PPM	OK			TP-6
106	6.4 PPM	OK			EW-61
107	0.6 PPM	OK			EW-50
108	18.6 PPM	OK			EW-67
109	1.5 PPM	OK			EW-47
110	1.3 PPM	OK			EW-54
111	1.0 PPM	OK			EW-55
112	0.8 PPM	OK			EW-92
113	31.5 PPM	OK			EW-91
114	0.6 PPM	OK			EW-96
115	0.8 PPM	OK			TP-2
116	0.7 PPM	OK			EW-66
117	0.5 PPM	OK			EW-58
118	0.5 PPM	OK			EW-57
119	0.6 PPM	OK			TP-1
120	2.2 PPM	OK			EW-59
121	64.0 PPM	OK			EW-100
122	2.2 PPM	OK			EW-56
123	0.6 PPM	OK			EW-97
124	1.6 PPM	OK			EW-53
125	1.0 PPM	OK			TP-3
126	1.8 PPM	OK			EW-51
127	0.5 PPM	OK			TP-5
128	55.4 PPM	OK			EW-68
129	0.3 PPM	OK			EW-87
130	0.3 PPM	OK			EW-38
131	0.9 PPM	OK			TP-7
132	0.9 PPM	OK			EW-49
133	1.4 PPM	OK			EW-83
134	1.0 PPM	OK			EW-65
135	0.7 PPM	OK			EW-81
136	2.0 PPM	OK			TP-8
137	0.6 PPM	OK			EW-64
138	0.3 PPM	OK			EW-63
139	0.3 PPM	OK			EW-42
140	220.0 PPM	OK			EW-76

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 8, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	0.3 PPM	OK			TP-9
142	0.3 PPM	OK			EW-62
143	0.2 PPM	OK			EW-74
144	0.3 PPM	OK			EW-32R
145	0.3 PPM	OK			EW-69
146	0.3 PPM	OK			EW-71
147	0.3 PPM	OK			EW-72
148	0.3 PPM	OK			EW-73
149	0.4 PPM	OK			EW-78
150	0.5 PPM	OK			EW-82
151	1.7 PPM	OK			EW-36A
152	0.7 PPM	OK			EW-85
153	1.5 PPM	OK			EW-88
154	0.5 PPM	OK			EW-89
155	0.7 PPM	OK			EW-93
156	2.9 PPM	OK			EW-94
157	0.6 PPM	OK			EW-98
158	0.7 PPM	OK			EW-99
159	1.3 PPM	OK			EW-95
160	0.9 PPM	OK			EW-90
161	0.7 PPM	OK			EW-86
162	0.5 PPM	OK			EW-84
163	0.3 PPM	OK			EW-80
164	1.0 PPM	OK			EW-79
165	0.3 PPM	OK			EW-77
166	0.3 PPM	OK			EW-33B
167	0.3 PPM	OK			EW-75

Number of locations sampled:	167
Number of exceedance locations:	0

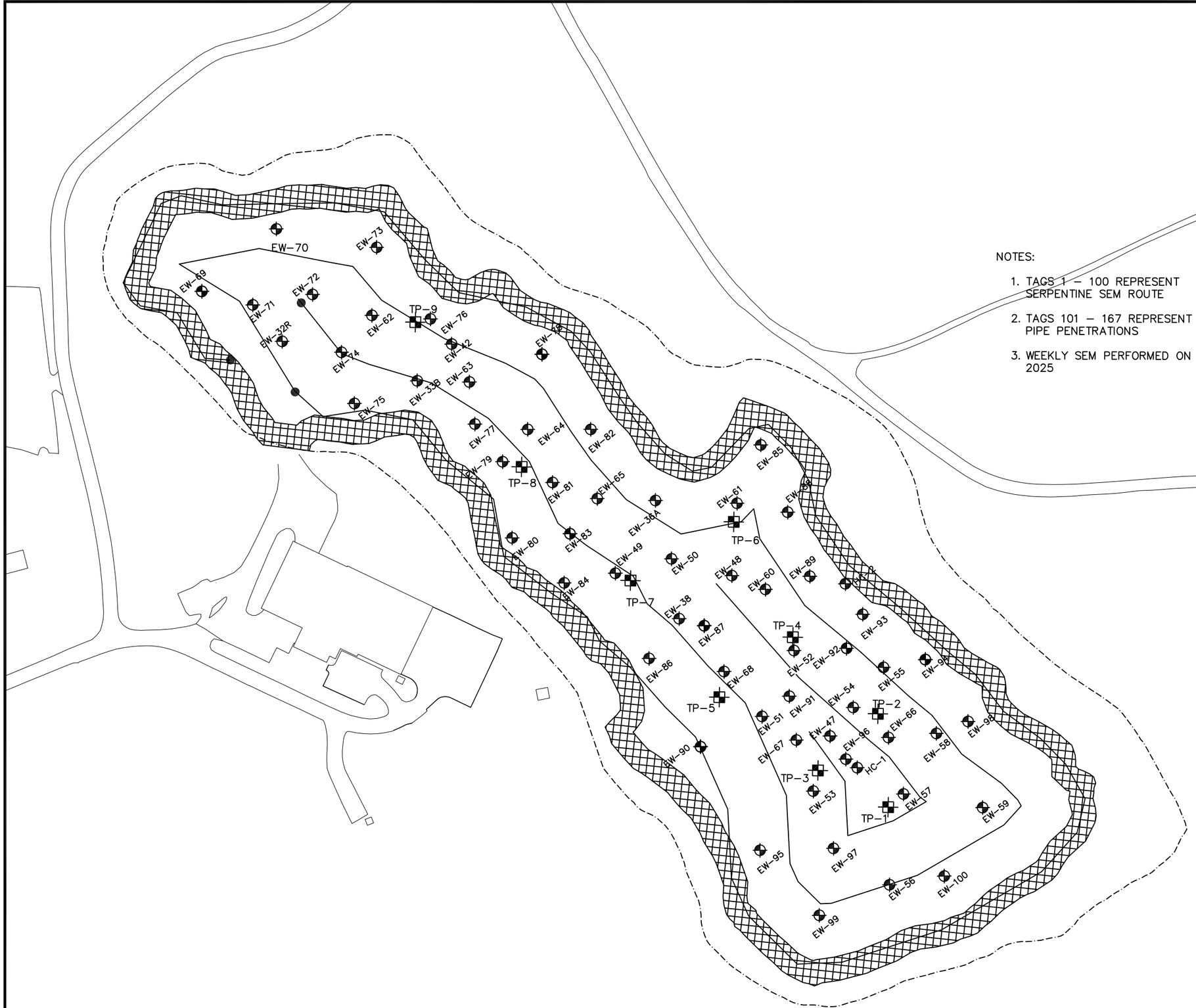
NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 167 represent SEM at Pipe Penetrations
Weather Conditions: Mostly Cloudy, 41°F Wind: 10 MPH NW

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

4/8/2025	11:12	ZERO	0.1	PPM
4/8/2025	11:17	SPAN	501.0	PPM

Background Reading:

4/8/2025	11:22	Upwind	2.3	PPM
4/8/2025	11:26	Downwind	1.5	PPM



NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 167 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON APRIL 8, 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: | Q/A RVW BY: | APP. BY:
DSN. BY: | CHK. BY:

FILE: 02218208.04
DATE: 4/8/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

April 23, 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 – April 18, 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 April 18, 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	3
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	3

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	4/18/25 Event	4/18/25 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	Passed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-49	3/17/25	1-Month Retest	Passed	Exceedance Resolved
EW-85	3/17/25	1-Month Retest	Passed	Exceedance Resolved
EW-52	3/27/25	N/A	Passed	Requires 1-Month Retest
EW-75	3/27/25	N/A	Passed	Requires 1-Month Retest
EW-82	3/27/25	N/A	Passed	Requires 1-Month Retest
EW-76	4/1/25	N/A	Passed	Requires 1-Month Retest

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

Sincerely,

Wylie R Hicklin
Staff Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: 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 - APRIL 18, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	0.0 PPM	OK			Start Serpentine Route
2	0.1 PPM	OK			
3	0.1 PPM	OK			
4	0.0 PPM	OK			
5	0.0 PPM	OK			
6	0.0 PPM	OK			
7	0.0 PPM	OK			
8	4.1 PPM	OK			
9	0.3 PPM	OK			
10	1.6 PPM	OK			
11	0.6 PPM	OK			
12	2.4 PPM	OK			
13	0.0 PPM	OK			
14	2.4 PPM	OK			
15	3.2 PPM	OK			
16	1.6 PPM	OK			
17	4.9 PPM	OK			
18	12.9 PPM	OK			
19	9.9 PPM	OK			
20	19.2 PPM	OK			
21	3.6 PPM	OK			
22	5.8 PPM	OK			
23	6.4 PPM	OK			
24	3.6 PPM	OK			
25	2.2 PPM	OK			
26	5.3 PPM	OK			
27	0.8 PPM	OK			
28	10.7 PPM	OK			
29	28.2 PPM	OK			
30	29.9 PPM	OK			
31	52.0 PPM	OK			
32	5.7 PPM	OK			
33	69.9 PPM	OK			
34	12.1 PPM	OK			
35	23.8 PPM	OK			
36	0.4 PPM	OK			
37	0.0 PPM	OK			
38	0.0 PPM	OK			
39	0.0 PPM	OK			
40	0.0 PPM	OK			
41	0.1 PPM	OK			
42	0.0 PPM	OK			
43	0.0 PPM	OK			
44	0.1 PPM	OK			
45	0.4 PPM	OK			
46	0.1 PPM	OK			
47	0.1 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 18, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	0.1 PPM	OK			
49	0.0 PPM	OK			
50	0.0 PPM	OK			
51	0.0 PPM	OK			
52	0.1 PPM	OK			
53	0.1 PPM	OK			
54	0.2 PPM	OK			
55	0.3 PPM	OK			
56	1.3 PPM	OK			
57	0.5 PPM	OK			
58	1.4 PPM	OK			
59	1.7 PPM	OK			
60	0.6 PPM	OK			
61	0.4 PPM	OK			
62	0.6 PPM	OK			
63	1.3 PPM	OK			
64	1.2 PPM	OK			
65	38.9 PPM	OK			
66	0.9 PPM	OK			
67	6.3 PPM	OK			
68	3.6 PPM	OK			
69	4.3 PPM	OK			
70	2.6 PPM	OK			
71	4.1 PPM	OK			
72	27.7 PPM	OK			
73	2.0 PPM	OK			
74	1.4 PPM	OK			
75	0.1 PPM	OK			
76	1.3 PPM	OK			
77	0.2 PPM	OK			
78	1.5 PPM	OK			
79	0.2 PPM	OK			
80	0.3 PPM	OK			
81	2.0 PPM	OK			
82	0.0 PPM	OK			
83	0.5 PPM	OK			
84	0.0 PPM	OK			
85	0.4 PPM	OK			
86	0.2 PPM	OK			
87	0.2 PPM	OK			
88	0.6 PPM	OK			
89	0.0 PPM	OK			
90	0.2 PPM	OK			
91	0.3 PPM	OK			
92	0.7 PPM	OK			
93	2.7 PPM	OK			
94	0.2 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 18, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	0.0 PPM	OK			
96	0.0 PPM	OK			
97	0.0 PPM	OK			
98	0.0 PPM	OK			
99	0.0 PPM	OK			
100	0.0 PPM	OK			End Serpentine Route
101	0.1 PPM	OK			EW-69
102	0.1 PPM	OK			EW-71
103	0.1 PPM	OK			EW-32R
104	0.1 PPM	OK			EW-74
105	0.1 PPM	OK			EW-72
106	0.4 PPM	OK			EW-62
107	0.2 PPM	OK			EW-33B
108	0.4 PPM	OK			EW-63
109	0.1 PPM	OK			EW-77
110	0.3 PPM	OK			EW-64
111	0.1 PPM	OK			EW-79
112	0.1 PPM	OK			TP-8
113	0.1 PPM	OK			EW-81
114	3.9 PPM	OK			EW-80
115	0.9 PPM	OK			EW-84
116	0.7 PPM	OK			EW-83
117	0.9 PPM	OK			EW-65
118	0.7 PPM	OK			EW-36A
119	0.1 PPM	OK			EW-49
120	3.8 PPM	OK			TP-7
121	0.8 PPM	OK			EW-50
122	4.5 PPM	OK			TP-6
123	1.1 PPM	OK			EW-61
124	0.0 PPM	OK			EW-85
125	0.6 PPM	OK			EW-88
126	3.0 PPM	OK			EW-48
127	52.7 PPM	OK			EW-87
128	1.5 PPM	OK			EW-38
129	7.0 PPM	OK			EW-86
130	2.9 PPM	OK			EW-90
131	15.2 PPM	OK			TP-5
132	10.4 PPM	OK			EW-68
133	164.0 PPM	OK			EW-52
134	12.8 PPM	OK			TP-4
135	78.9 PPM	OK			EW-60
136	19.1 PPM	OK			EW-89
137	0.8 PPM	OK			EW-93
138	198.0 PPM	OK			EW-92
139	0.2 PPM	OK			EW-91
140	3.5 PPM	OK			EW-51

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 18, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	1039.0 PPM	HIGH_ALRM	36.59866	-82.147751	EW-67
142	7.7 PPM	OK			EW-47
143	5370.0 PPM	HIGH_ALRM	36.59859	-82.14738	EW-54
144	19.6 PPM	OK			EW-55
145	34.2 PPM	OK			EW-94
146	8.1 PPM	OK			TP-2
147	61.5 PPM	OK			EW-53
148	7.6 PPM	OK			TP-3
149	3.9 PPM	OK			EW-96
150	2.4 PPM	OK			TP-1
151	11.3 PPM	OK			EW-57
152	1.7 PPM	OK			EW-66
153	0.8 PPM	OK			EW-58
154	0.9 PPM	OK			EW-98
155	6.4 PPM	OK			EW-59
156	0.8 PPM	OK			EW-100
157	2.6 PPM	OK			EW-56
158	20.2 PPM	OK			EW-99
159	3.2 PPM	OK			EW-97
160	6603.0 PPM	HIGH_ALRM	36.59837	-82.14835	EW-95
161	8.6 PPM	OK			EW-82
162	4.5 PPM	OK			EW-78
163	3.3 PPM	OK			EW-42
164	80.5 PPM	OK			EW-76
165	1.7 PPM	OK			TP-9
166	7.2 PPM	OK			EW-73
167	1.4 PPM	OK			EW-75

Number of locations sampled:	167
Number of exceedance locations:	3

NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 167 represent SEM at Pipe Penetrations
Weather Conditions: Mostly Sunny, 70°F Wind: None

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

4/18/2025	9:27	ZERO	0.2	PPM
4/8/2025	9:43	SPAN	500.0	PPM

Background Reading:

4/18/2025	9:48	Upwind	1.3	PPM
4/8/2025	9:52	Downwind	0.0	PPM

NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 167 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON APRIL 8, 2025

EW-70 EW-73 EW-69 EW-71 EW-72 EW-32R EW-62 TP-9 EW-76 EW-74 EW-42 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-91 EW-54 TP-2 EW-51 EW-47 EW-96 EW-66 EW-67 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: | Q/A RVW BY: | APP. BY:
DSN. BY: | CHK. BY:

FILE: 02218208.04
DATE: 4/18/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

May 1, 2024
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 – April 25, 2024
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 Facility located in Bristol, Virginia on April 25, 2024. 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 and the newly installed and connected gas extraction wells. 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 time 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	4/25/24 Event	4/25/24 Event Result	Comments
EW-82	3/29/24	1-Month Recheck	Passed	Exceedance Resolved
EW-90	4/2/24	2nd 10-Day Recheck	Failed	Subject to 40 CFR 63.1960(c)(4)(v)
EW-67	4/11/24	2nd 10-Day Recheck	Failed	Subject to 40 CFR 63.1960(c)(4)(v)

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

Sincerely,

William J. Fabrie

Lucas S. Nachman

William J. Fabrie
Staff Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WJF/cjw

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 - APRIL 25, 2024
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	1.3 PPM	OK			Start Serpentine Route
2	2.3 PPM	OK			
3	1.1 PPM	OK			
4	1.1 PPM	OK			
5	1.0 PPM	OK			
6	1.0 PPM	OK			
7	1.0 PPM	OK			
8	1.3 PPM	OK			
9	0.9 PPM	OK			
10	0.9 PPM	OK			
11	0.9 PPM	OK			
12	0.8 PPM	OK			
13	1.0 PPM	OK			
14	0.9 PPM	OK			
15	0.9 PPM	OK			
16	0.8 PPM	OK			
17	1.8 PPM	OK			
18	1.9 PPM	OK			
19	26.2 PPM	OK			
20	9.7 PPM	OK			
21	1.5 PPM	OK			
22	1.2 PPM	OK			
23	1.0 PPM	OK			
24	3.3 PPM	OK			
25	46.0 PPM	OK			
26	1.3 PPM	OK			
27	0.7 PPM	OK			
28	0.8 PPM	OK			
29	0.6 PPM	OK			
30	0.5 PPM	OK			
31	34.1 PPM	OK			
32	13.1 PPM	OK			
33	59.5 PPM	OK			
34	158.0 PPM	OK			
35	2.2 PPM	OK			
36	15.5 PPM	OK			
37	27.9 PPM	OK			
38	35.8 PPM	OK			
39	3.2 PPM	OK			
40	6.5 PPM	OK			
41	3.4 PPM	OK			
42	1.2 PPM	OK			
43	0.7 PPM	OK			
44	2.9 PPM	OK			
45	1.1 PPM	OK			
46	1.5 PPM	OK			
47	0.3 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 25, 2024
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	0.2 PPM	OK			
49	0.3 PPM	OK			
50	0.2 PPM	OK			
51	0.2 PPM	OK			
52	0.2 PPM	OK			
53	0.2 PPM	OK			
54	0.2 PPM	OK			
55	0.3 PPM	OK			
56	0.2 PPM	OK			
57	9.5 PPM	OK			
58	2.4 PPM	OK			
59	4.1 PPM	OK			
60	6.6 PPM	OK			
61	4.5 PPM	OK			
62	17.4 PPM	OK			
63	4.0 PPM	OK			
64	0.6 PPM	OK			
65	5.4 PPM	OK			
66	6.3 PPM	OK			
67	7.5 PPM	OK			
68	0.9 PPM	OK			
69	0.1 PPM	OK			
70	1.5 PPM	OK			
71	0.1 PPM	OK			
72	0.2 PPM	OK			
73	0.2 PPM	OK			
74	1.5 PPM	OK			
75	12.6 PPM	OK			
76	1.5 PPM	OK			
77	42.8 PPM	OK			
78	0.2 PPM	OK			
79	0.4 PPM	OK			
80	0.2 PPM	OK			
81	1.9 PPM	OK			
82	489.0 PPM	OK			
83	5.5 PPM	OK			
84	9.1 PPM	OK			
85	1.3 PPM	OK			
86	4.3 PPM	OK			
87	1.2 PPM	OK			
88	0.4 PPM	OK			
89	0.2 PPM	OK			
90	0.0 PPM	OK			
91	13.0 PPM	OK			
92	44.0 PPM	OK			
93	12.7 PPM	OK			
94	13.3 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 25, 2024
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	16.4 PPM	OK			
96	0.3 PPM	OK			
97	0.6 PPM	OK			
98	1.4 PPM	OK			
99	1.1 PPM	OK			
100	3.2 PPM	OK			End Serpentine Route
101	255.0 PPM	OK			EW-52
102	7.5 PPM	OK			TP-4
103	158.0 PPM	OK			EW-60
104	106.0 PPM	OK			EW-48
105	8.9 PPM	OK			TP-6
106	0.0 PPM	OK			EW-61
107	4.8 PPM	OK			EW-50
108	4529.0 PPM	HIGH_ALRM	36.59866	-82.14775	EW-67
109	0.3 PPM	OK			EW-47
110	0.2 PPM	OK			EW-54
111	1.1 PPM	OK			EW-55
112	12.3 PPM	OK			EW-92
113	430.0 PPM	OK			EW-91
114	3.7 PPM	OK			EW-96
115	1.0 PPM	OK			TP-2
116	10.4 PPM	OK			EW-66
117	0.0 PPM	OK			EW-58
118	1.0 PPM	OK			EW-57
119	3.6 PPM	OK			TP-1
120	39.3 PPM	OK			EW-59
121	53.5 PPM	OK			EW-100
122	115.0 PPM	OK			EW-56
123	1.0 PPM	OK			EW-97
124	0.0 PPM	OK			EW-53
125	0.1 PPM	OK			TP-3
126	70.1 PPM	OK			EW-51
127	3.8 PPM	OK			TP-5
128	5.0 PPM	OK			EW-68
129	27.7 PPM	OK			EW-87
130	40.5 PPM	OK			EW-38
131	180.0 PPM	OK			TP-7
132	1.9 PPM	OK			EW-49
133	0.0 PPM	OK			EW-83
134	0.9 PPM	OK			EW-65
135	0.0 PPM	OK			EW-81
136	0.0 PPM	OK			TP-8
137	0.0 PPM	OK			EW-64
138	0.1 PPM	OK			EW-63
139	0.0 PPM	OK			EW-42
140	7.4 PPM	OK			EW-76

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 25, 2024
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	0.1 PPM	OK			TP-9
142	0.1 PPM	OK			EW-62
143	0.0 PPM	OK			EW-74
144	0.5 PPM	OK			EW-32R
145	0.0 PPM	OK			EW-69
146	0.3 PPM	OK			EW-71
147	0.0 PPM	OK			EW-72
148	4.0 PPM	OK			EW-73
149	0.7 PPM	OK			EW-78
150	8.2 PPM	OK			EW-82
151	0.1 PPM	OK			EW-36A
152	0.1 PPM	OK			EW-85
153	0.1 PPM	OK			EW-88
154	109.0 PPM	OK			EW-89
155	0.0 PPM	OK			EW-93
156	0.0 PPM	OK			EW-94
157	0.1 PPM	OK			EW-98
158	0.0 PPM	OK			EW-99
159	159.0 PPM	OK			EW-95
160	672.0 PPM	HIGH_ALRM	36.59893	-82.14826	EW-90
161	51.8 PPM	OK			EW-86
162	31.5 PPM	OK			EW-84
163	9.7 PPM	OK			EW-80
164	11.8 PPM	OK			EW-79
165	0.2 PPM	OK			EW-77
166	0.3 PPM	OK			EW-33B
167	0.4 PPM	OK			EW-75

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

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - APRIL 25, 2024
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments

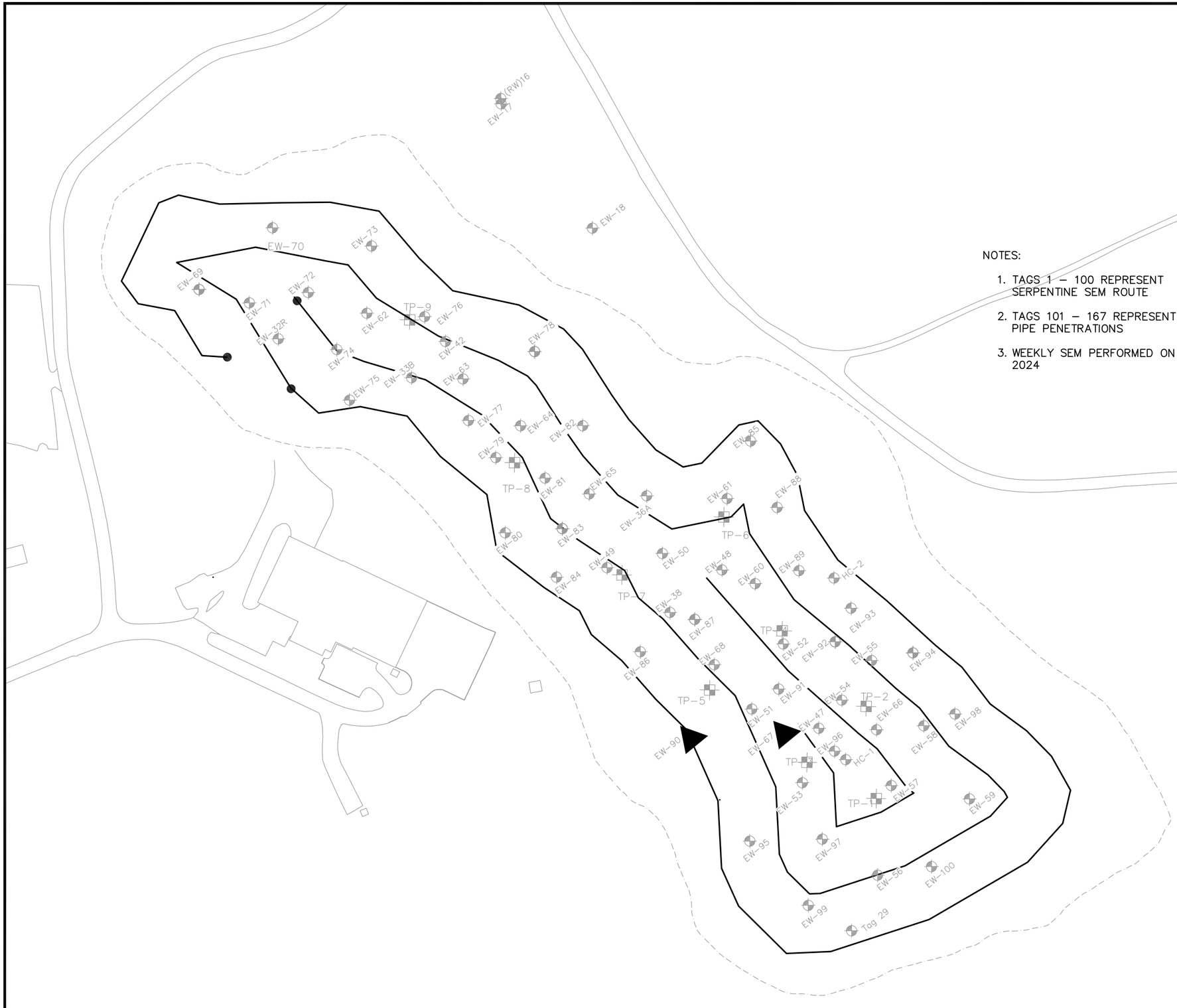
NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 167 represent SEM at Pipe Penetrations
Weather Conditions: Mostly Sunny, 68°F Wind: 5 MPH W

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

4/25/2024	13:03	ZERO	0.1	PPM
4/25/2024	13:08	SPAN	500.0	PPM

Background Reading:

4/25/2024	13:12	Upwind	2.0	PPM
4/25/2024	13:17	Downwind	1.4	PPM



NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 167 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON APRIL 25, 2024

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
WEEKLY SEM ROUTE

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.	DWN. BY:	QA/QC BY:
02218208.04	LSN	
DSN. BY:	CHK. BY:	APP. BY:
LSN	DBK	

FILE: 02218208.04
DATE: 4/25/24
SCALE: AS SHOWN
DRAWING NO.
1 of 1

Appendix B

In-Waste Temperatures on Select Days in April

Appendix B Figures

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

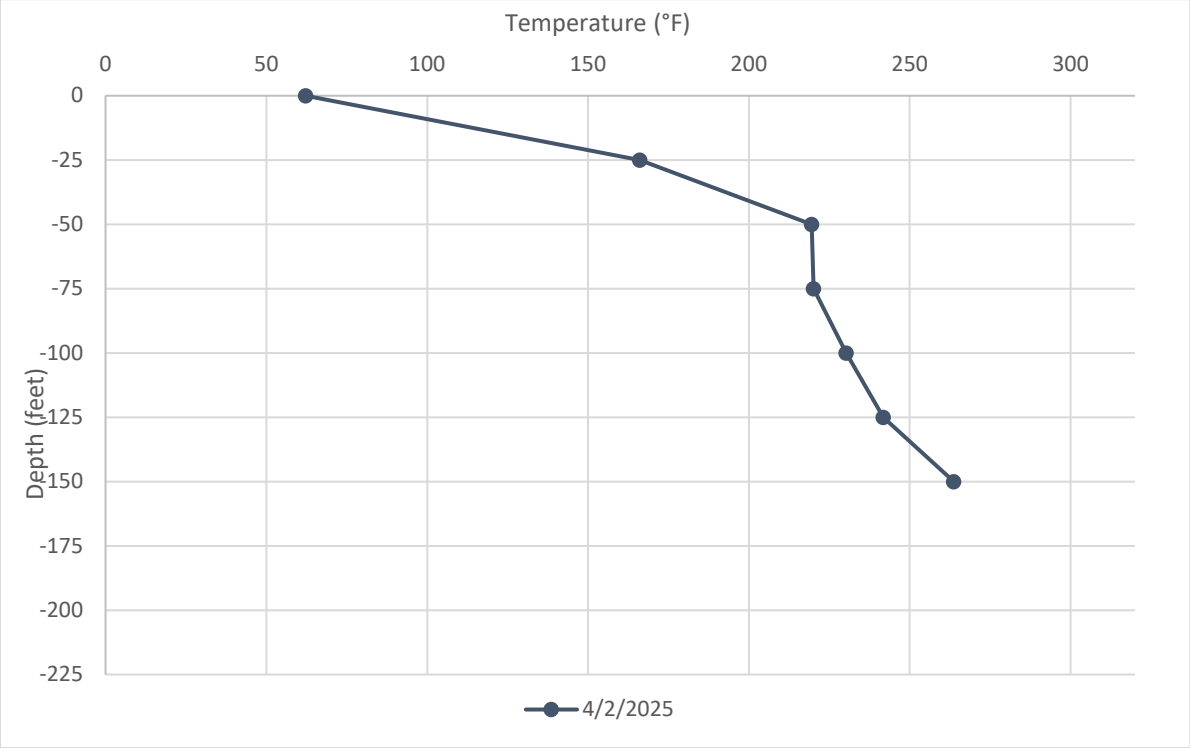


Figure B - 2 Average Temperatures Recorded by TP-1 on April 9, 2025

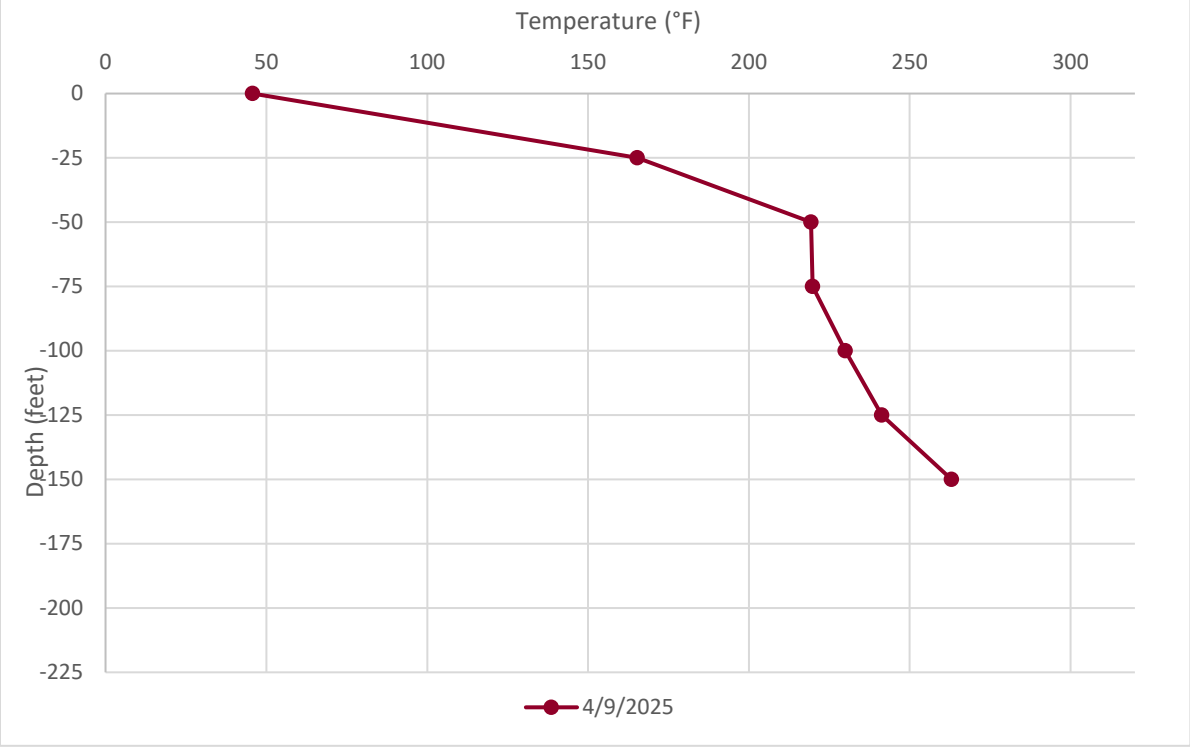


Figure B - 3 Average Temperatures Recorded by TP-1 on *April 16*, 2025

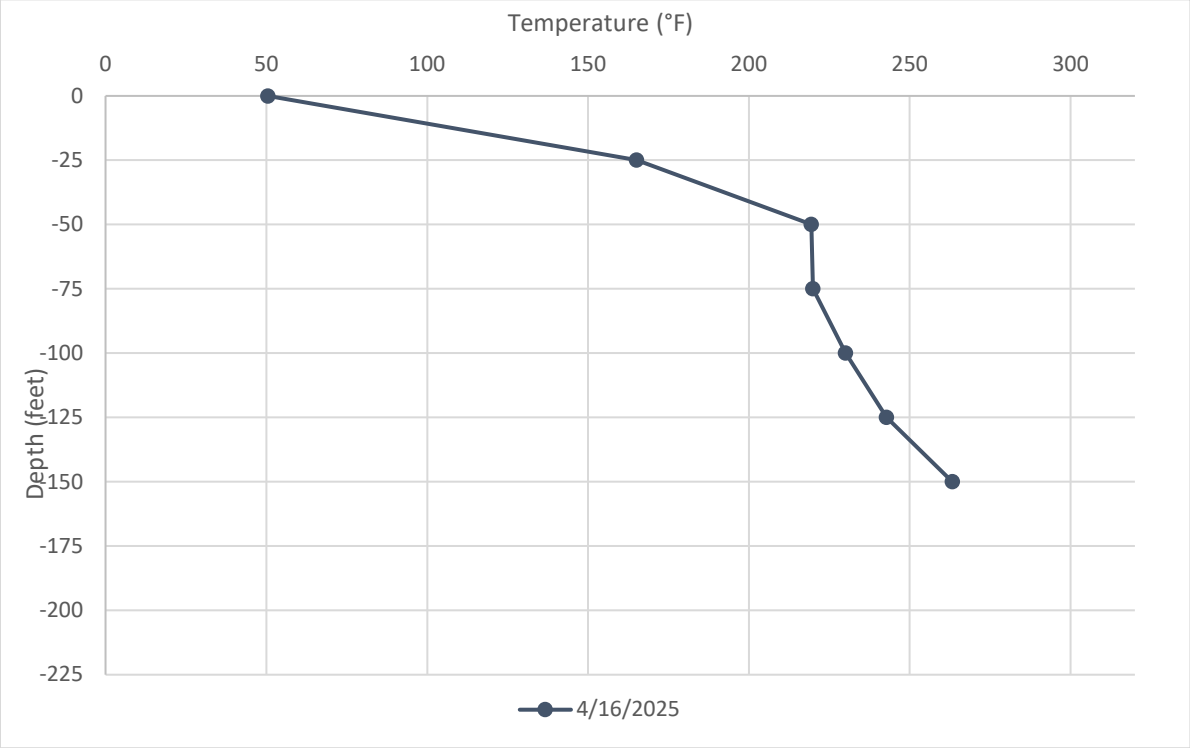


Figure B - 4 Average Temperatures Recorded by TP-1 on April 23, 2025

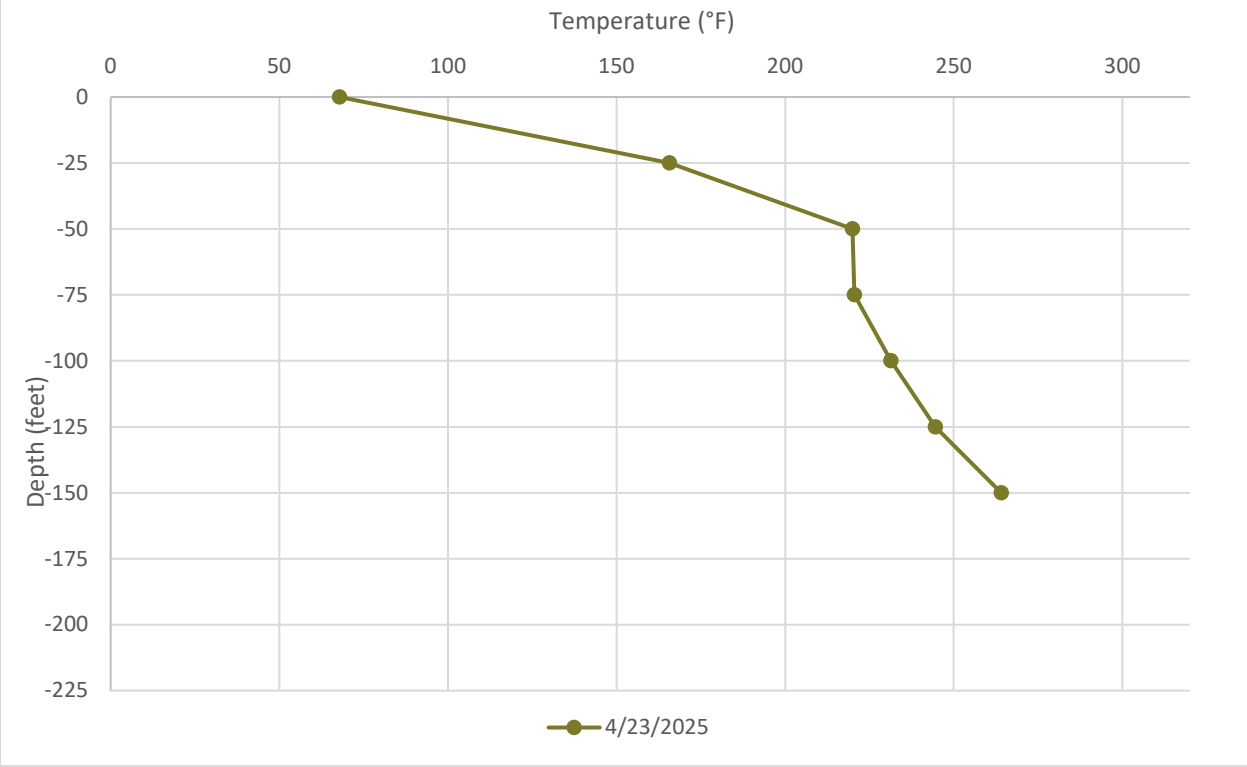


Figure B - 5 Average Temperatures Recorded by TP-1 on April 30, 2025

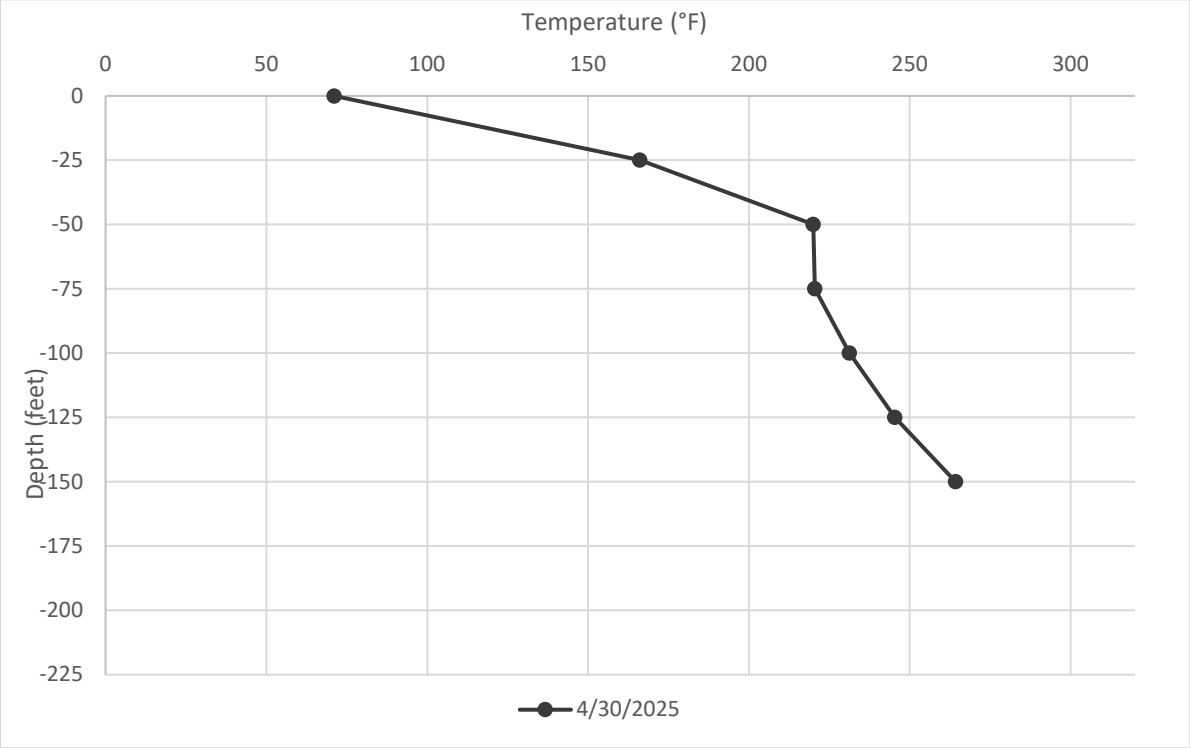


Figure B - 6 Average Temperatures Recorded by TP-2 on April 2, 2025

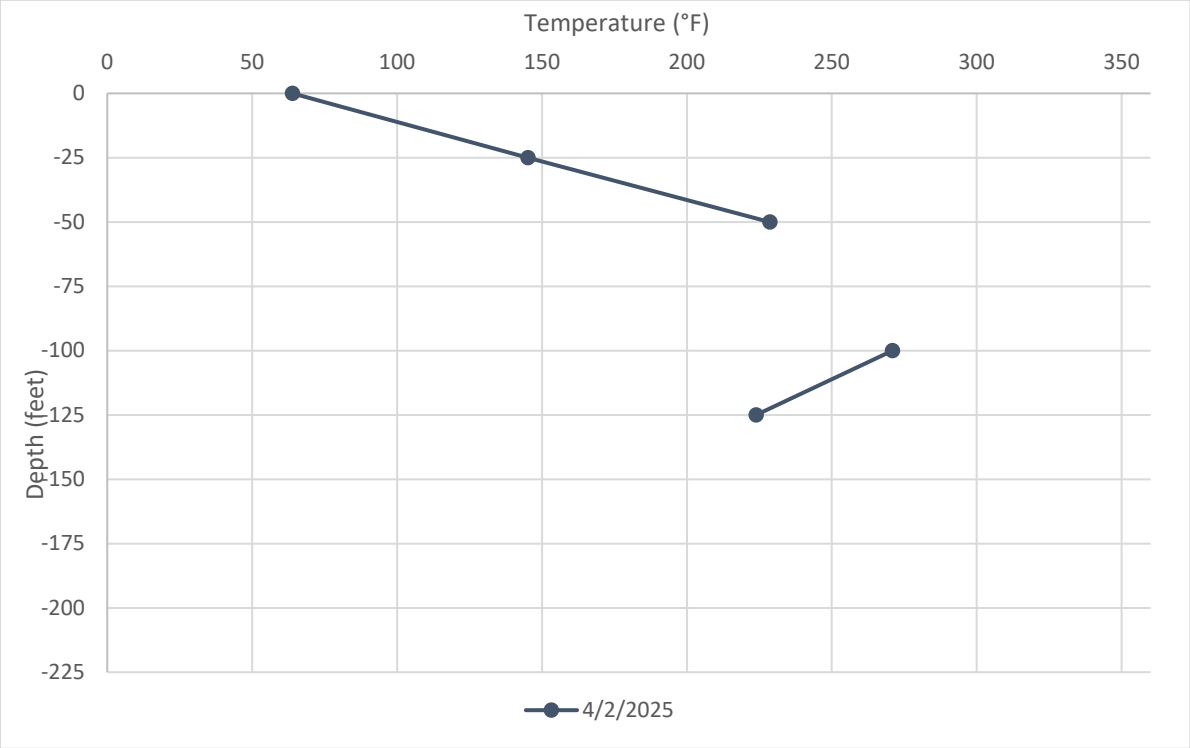


Figure B - 7 Average Temperatures Recorded by TP-2 on April 9, 2025

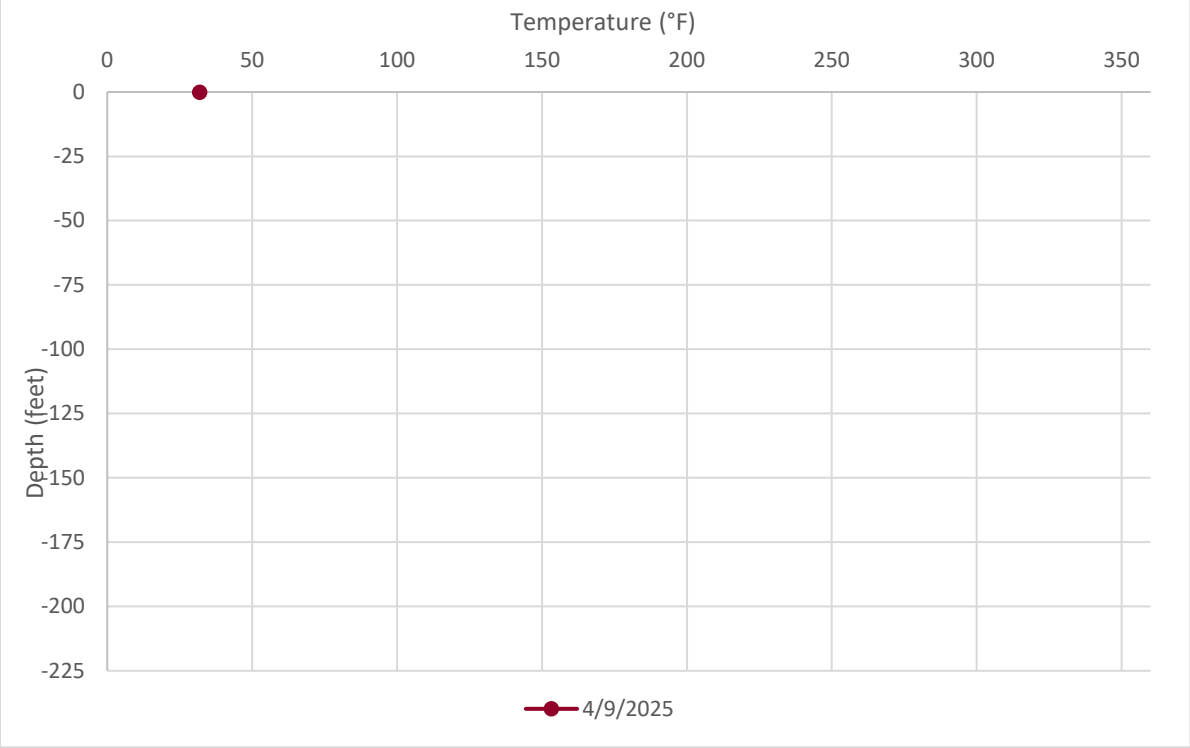


Figure B - 8 Average Temperatures Recorded by TP-2 on April 16, 2025

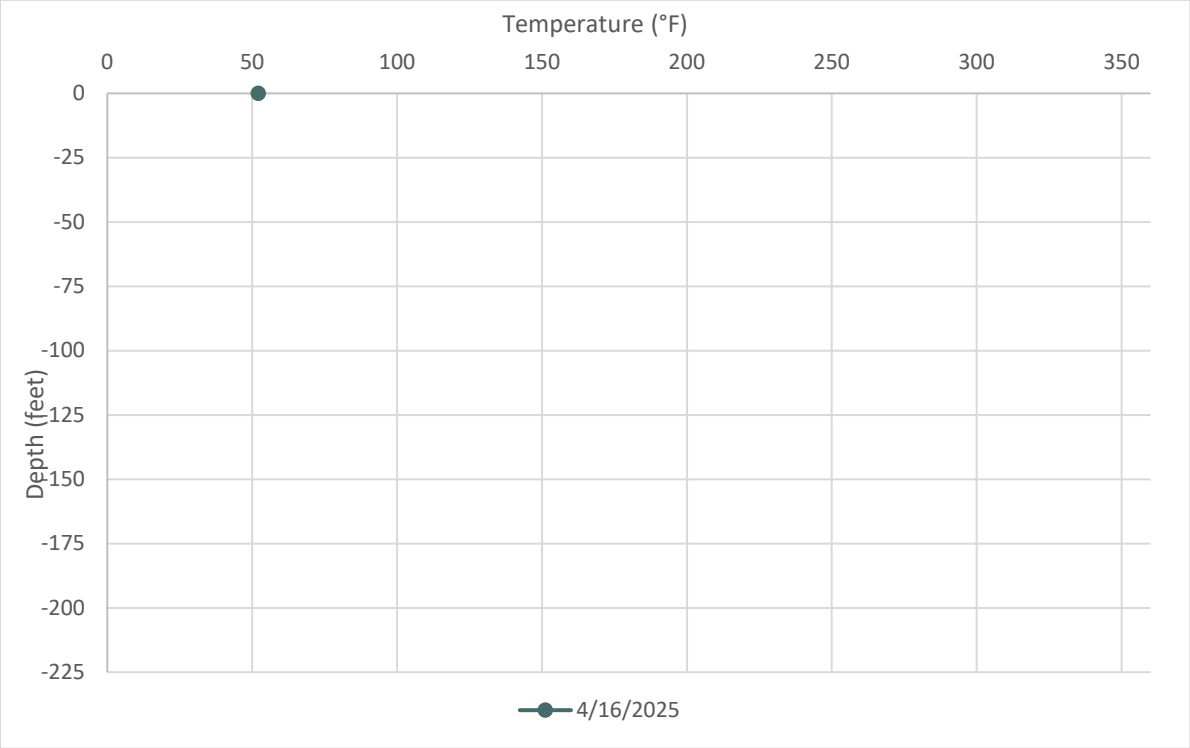


Figure B - 9 Average Temperatures Recorded by TP-2 on April 23, 2025

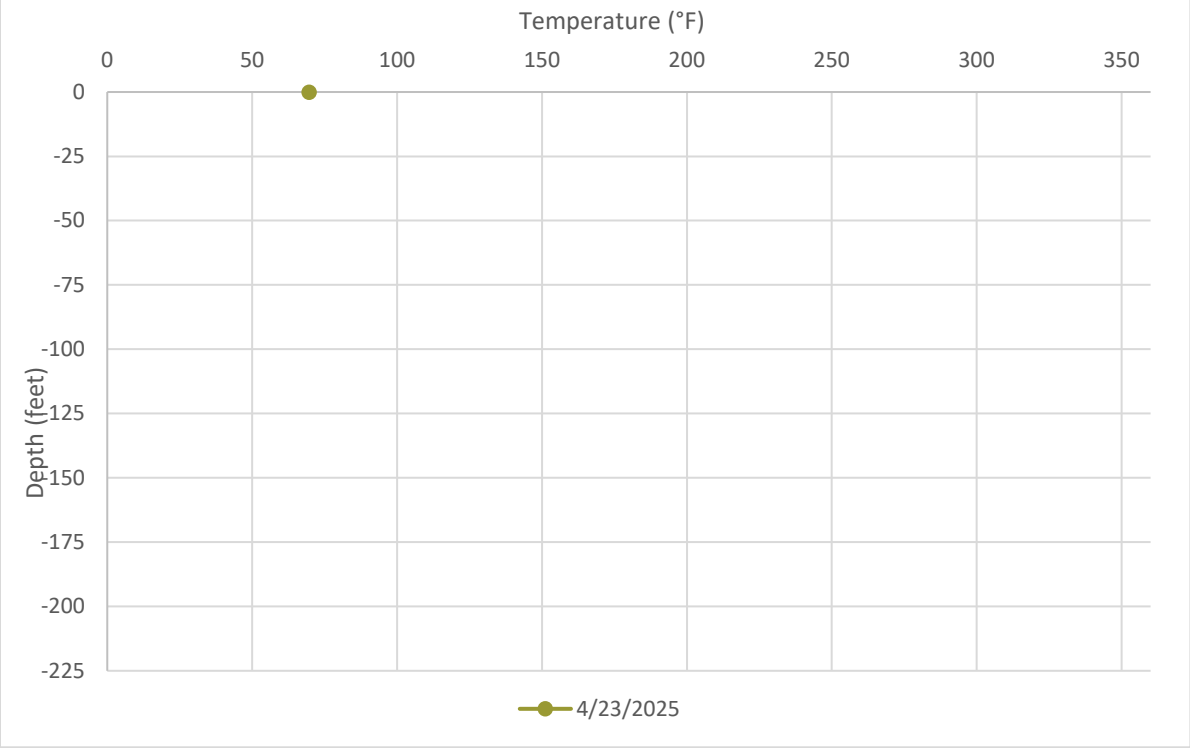


Figure B - 10 Average Temperatures Recorded by TP-2 on April 30, 2025

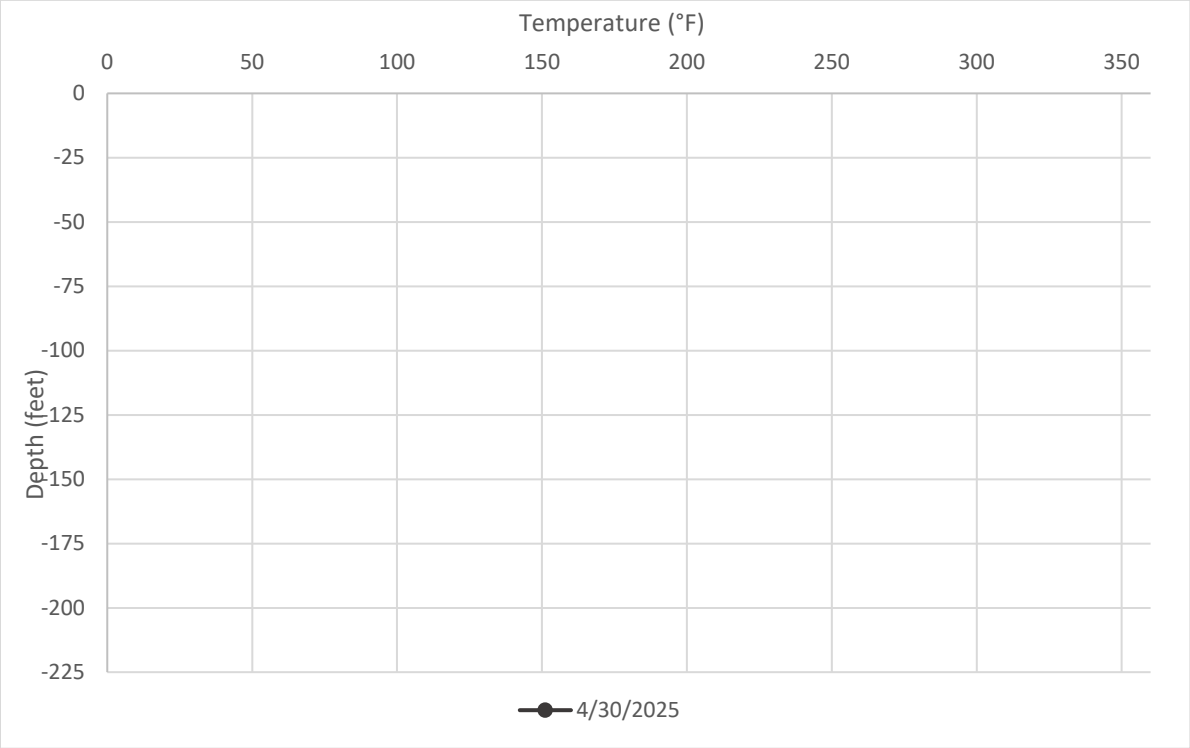


Figure B - 11 Average Temperatures Recorded by TP-3 on April 2, 2025

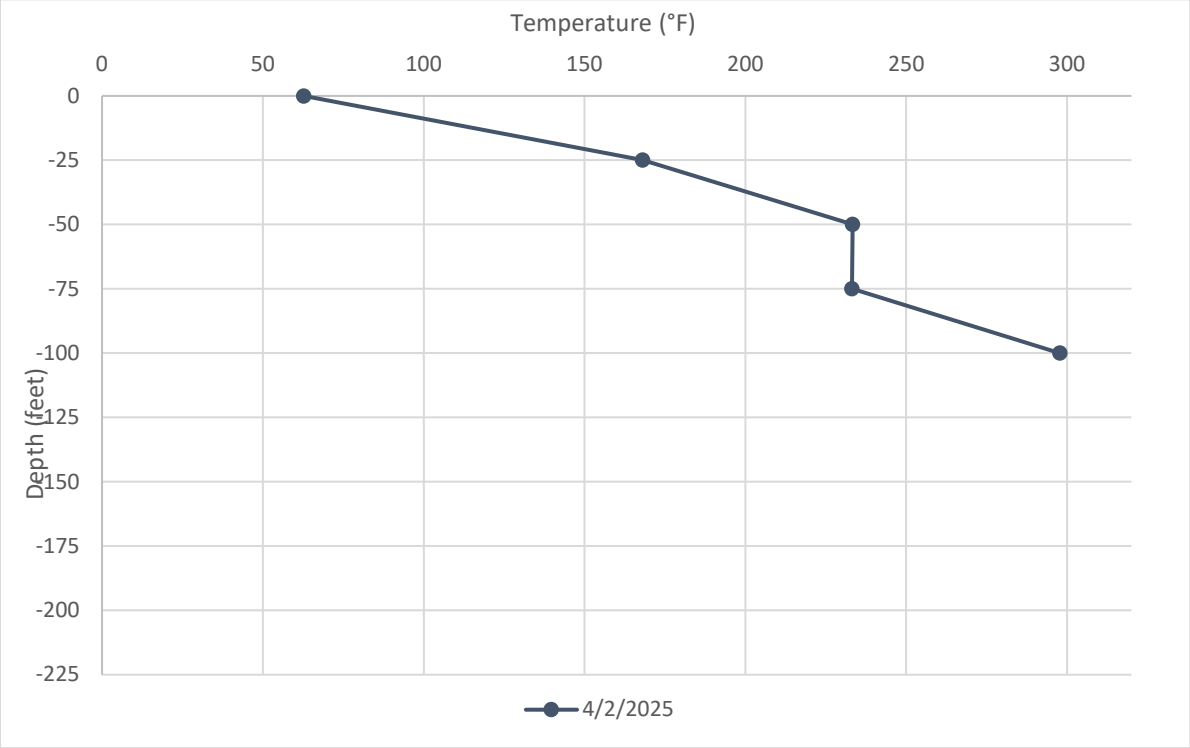


Figure B - 12 Average Temperatures Recorded by TP-3 on April 9, 2025

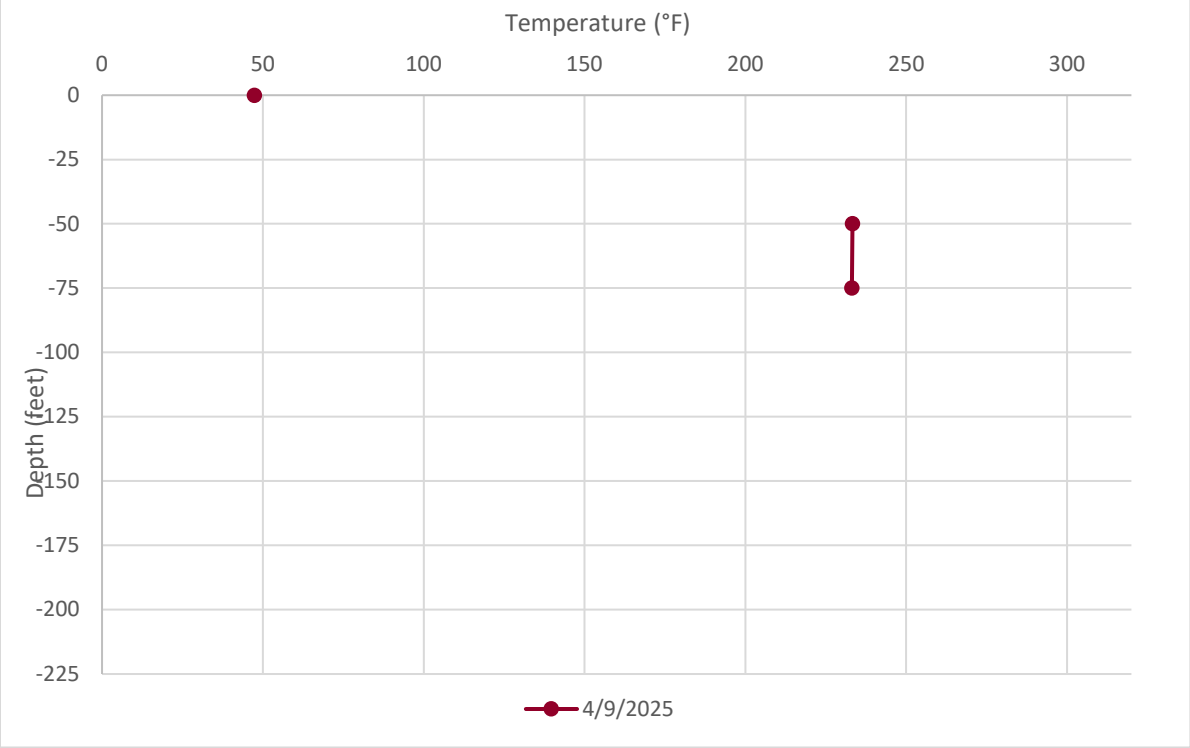


Figure B - 13 Average Temperatures Recorded by TP-3 on April 16, 2025

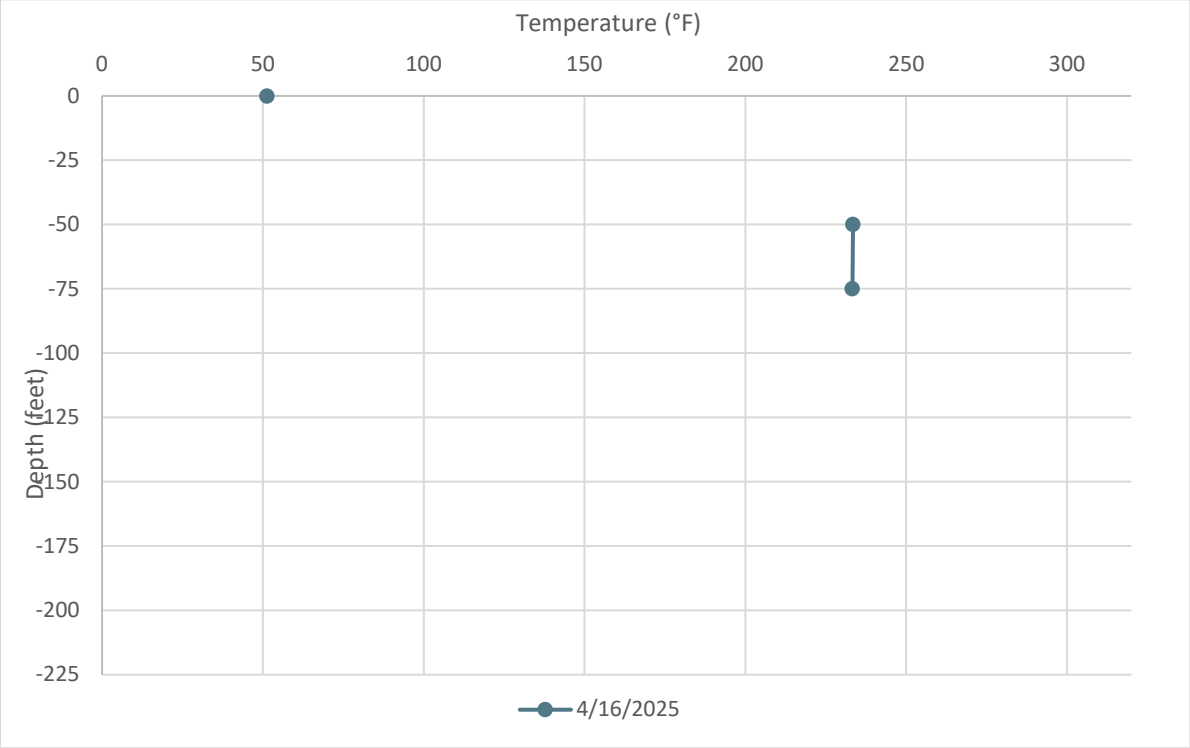


Figure B - 14 Average Temperatures Recorded by TP-3 on April 23, 2025

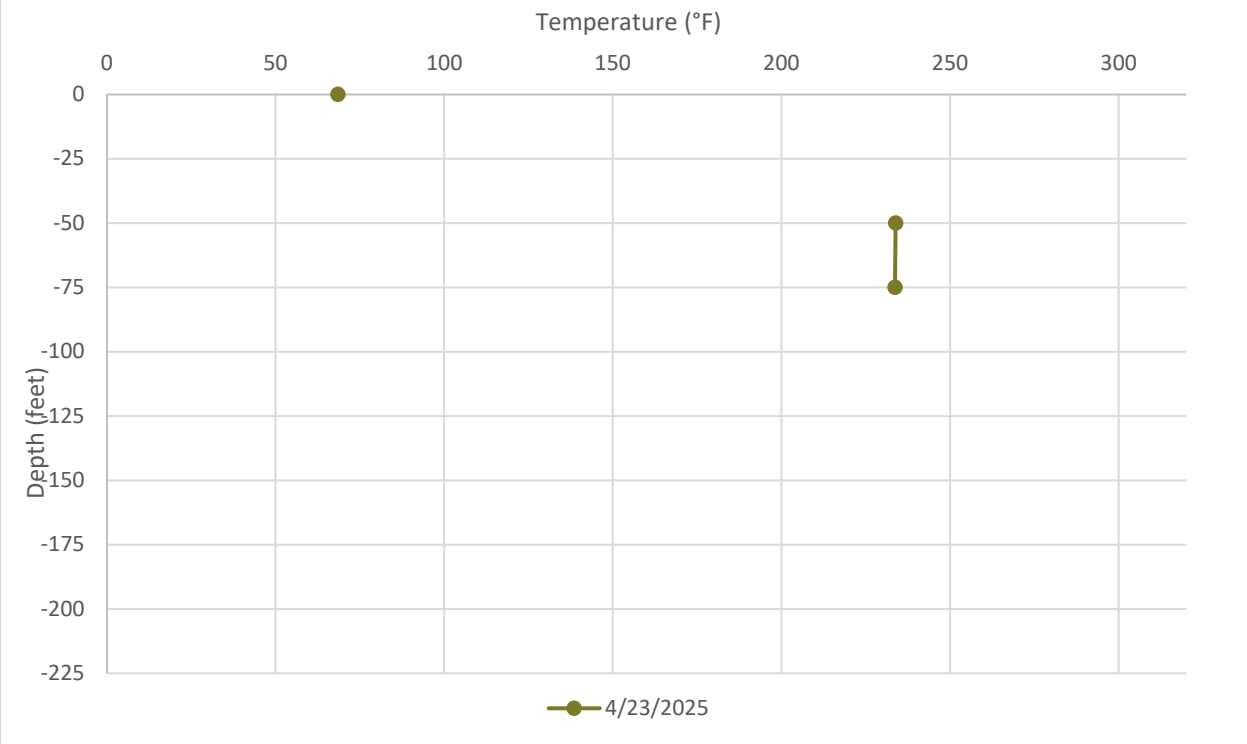


Figure B - 15 Average Temperatures Recorded by TP-3 on April 30, 2025

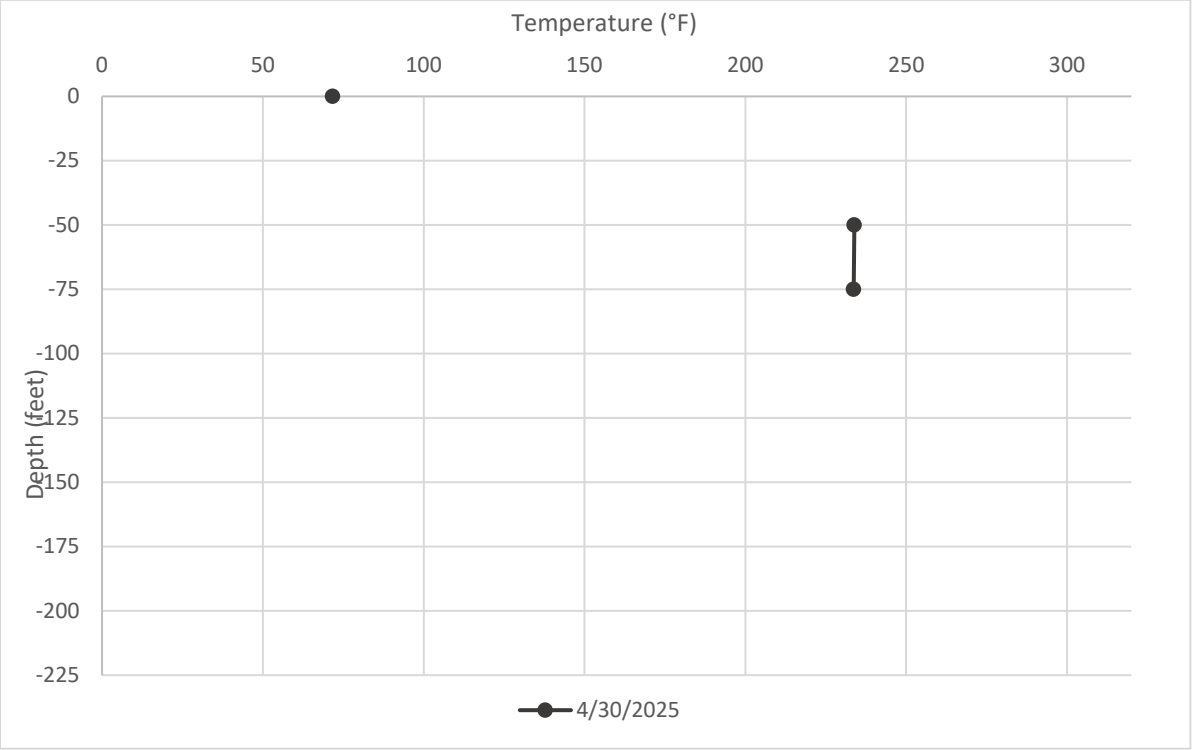


Figure B - 16 Average Temperatures Recorded by TP-5 on April 2, 2025

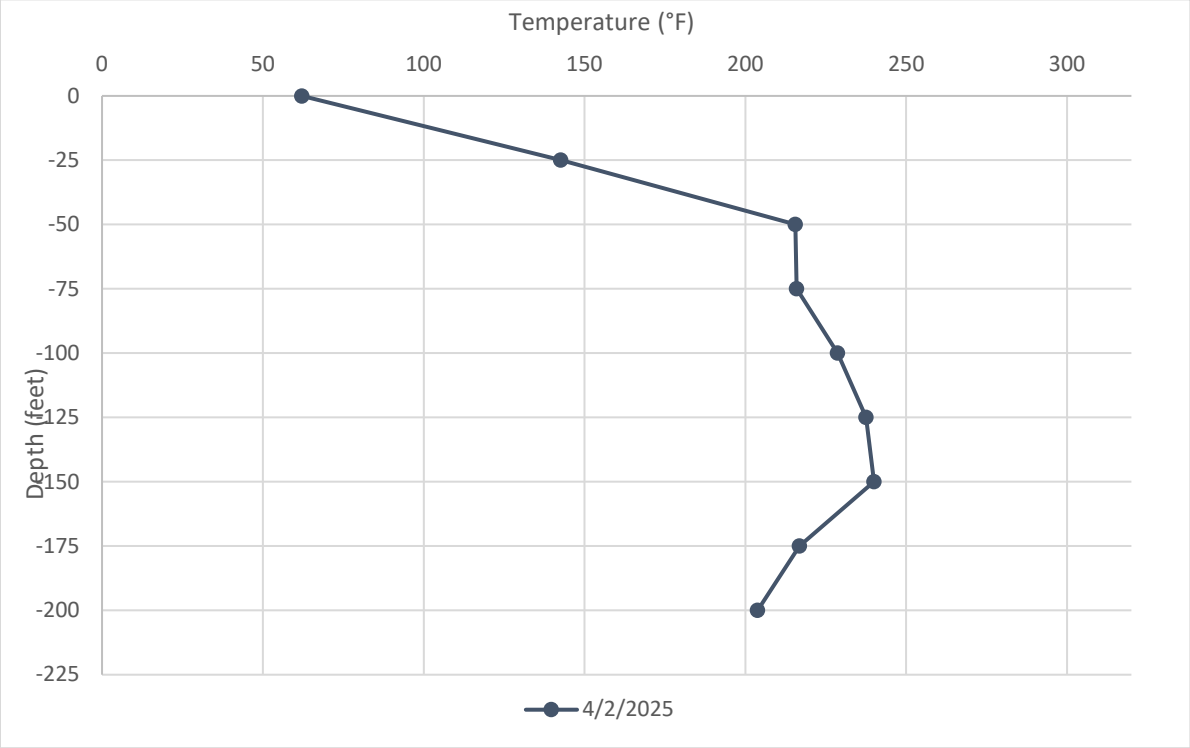


Figure B - 17 Average Temperatures Recorded by TP-5 on April 9, 2025

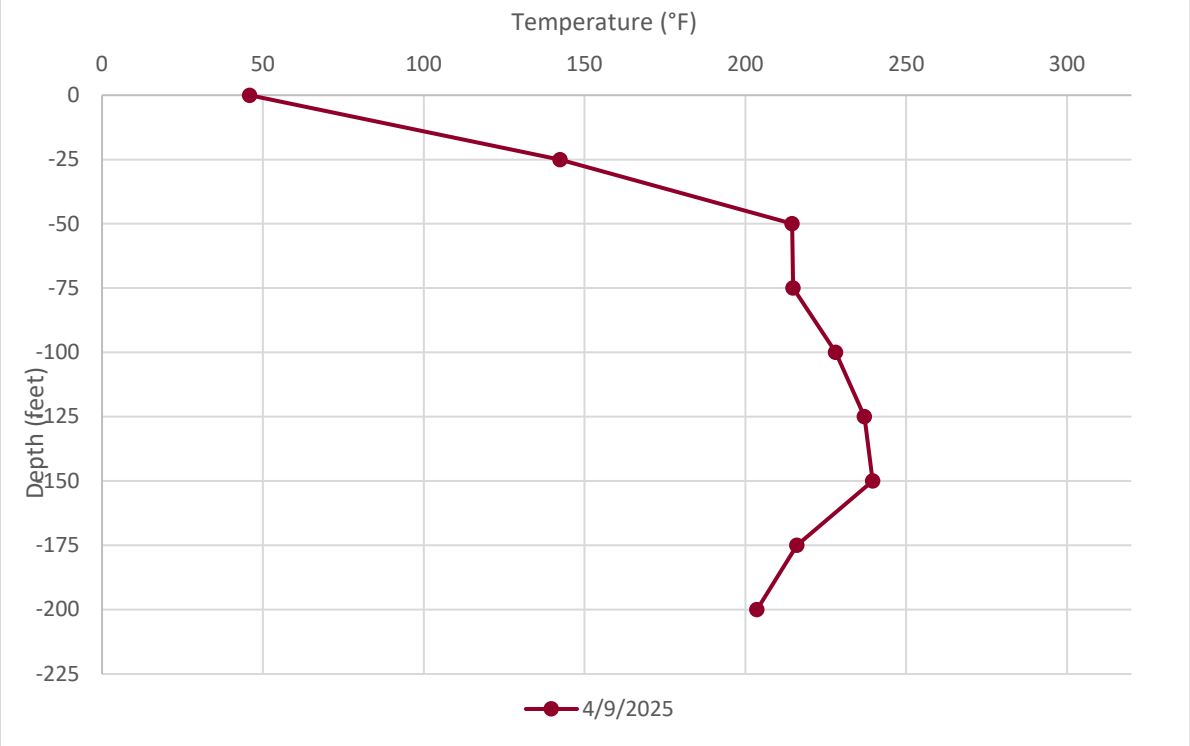


Figure B - 18 Average Temperatures Recorded by TP-5 on April 16, 2025

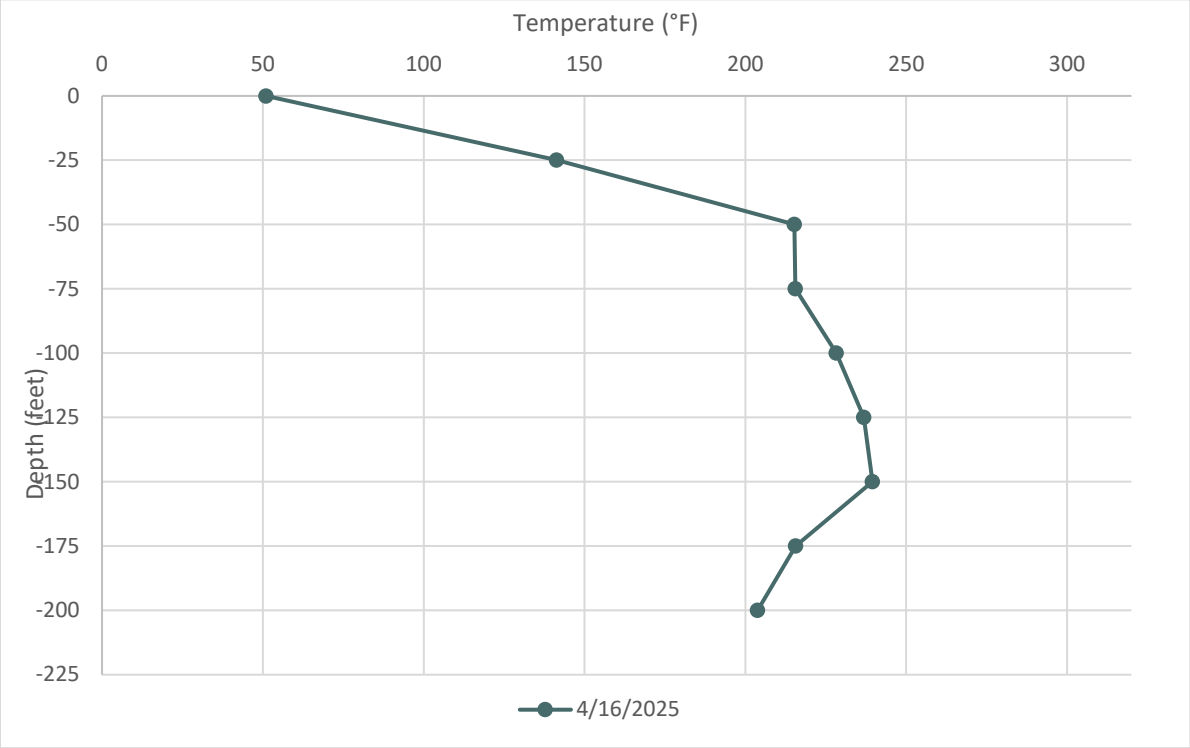


Figure B - 19 Average Temperatures Recorded by TP-5 on April 23, 2025

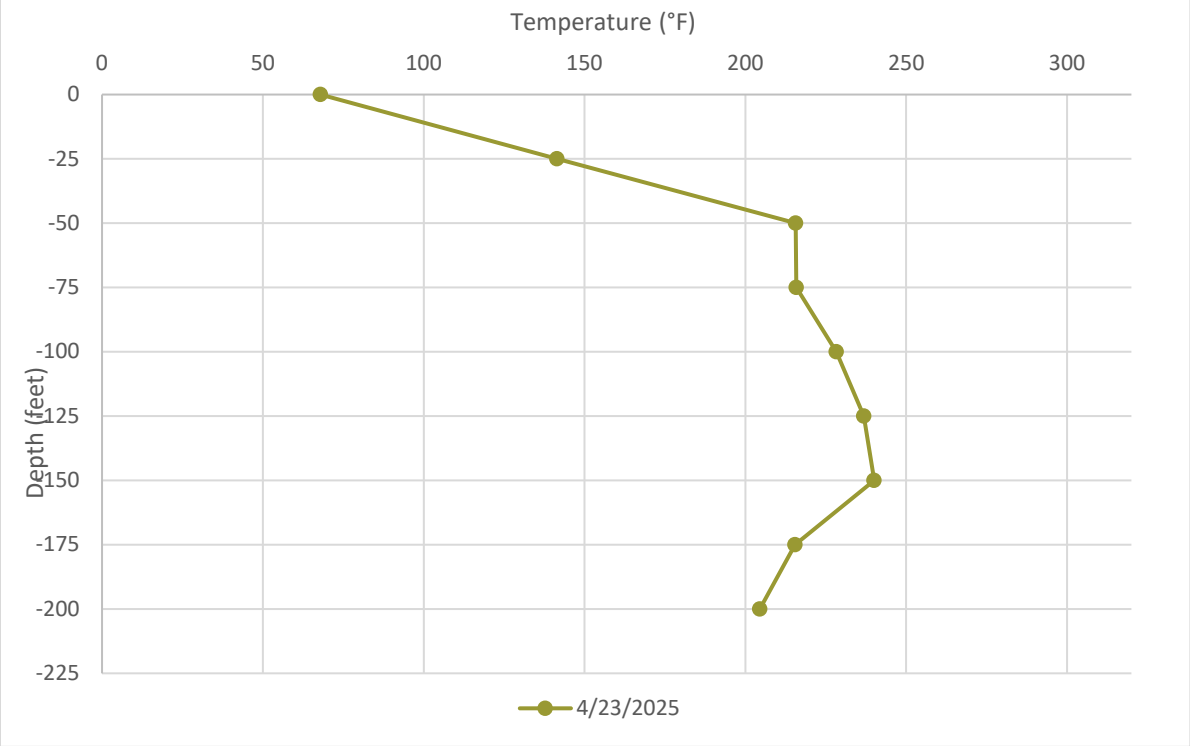


Figure B - 20 Average Temperatures Recorded by TP-5 on April 30, 2025

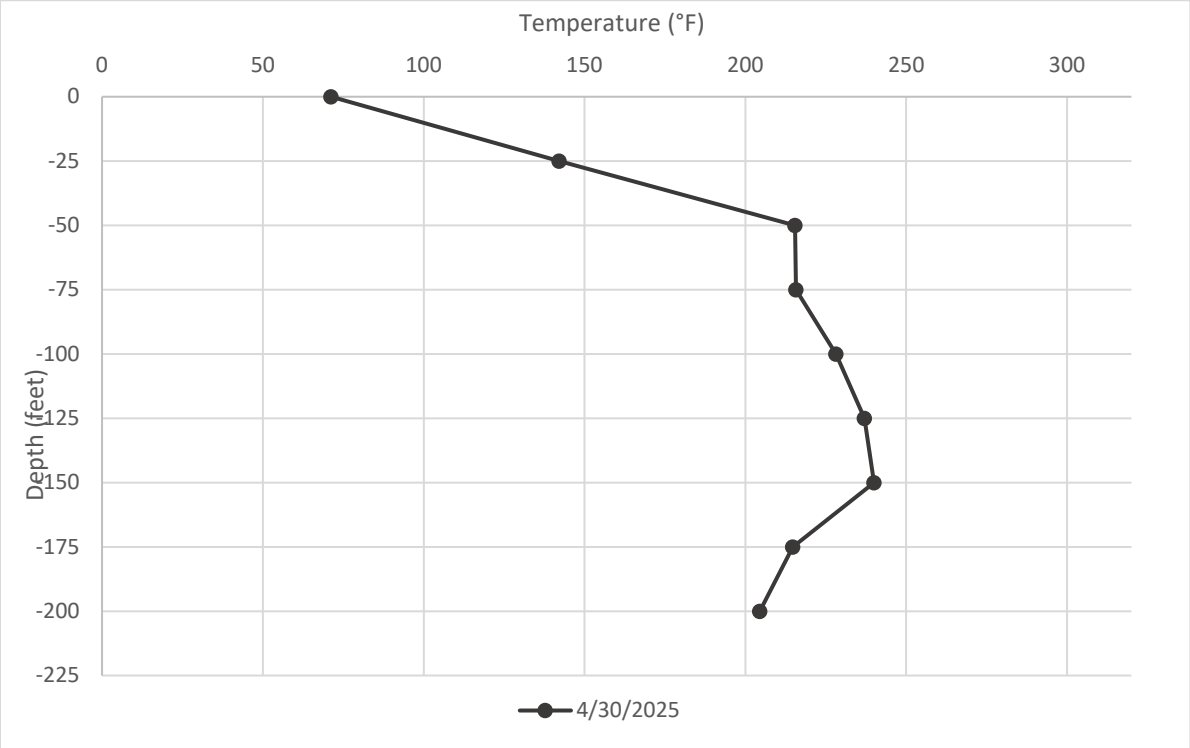


Figure B - 21 Average Temperatures Recorded by TP-6 on April 2, 2025

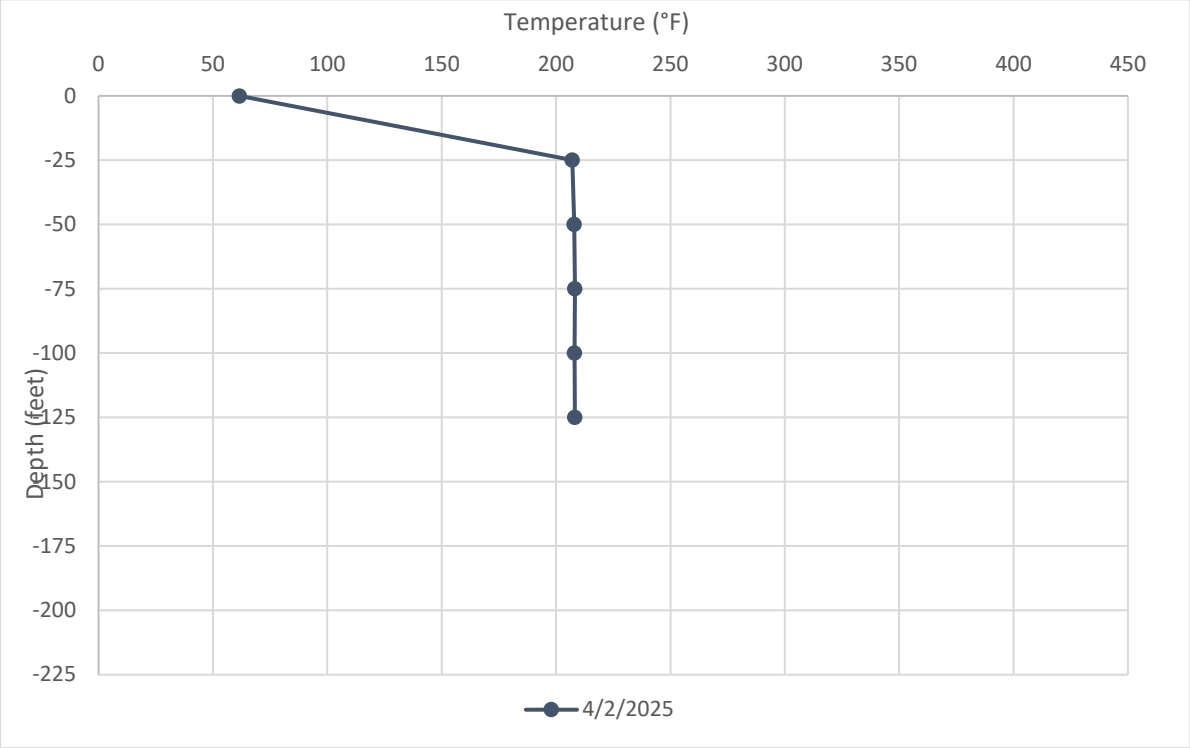


Figure B - 22 Average Temperatures Recorded by TP-6 on April 9, 2025

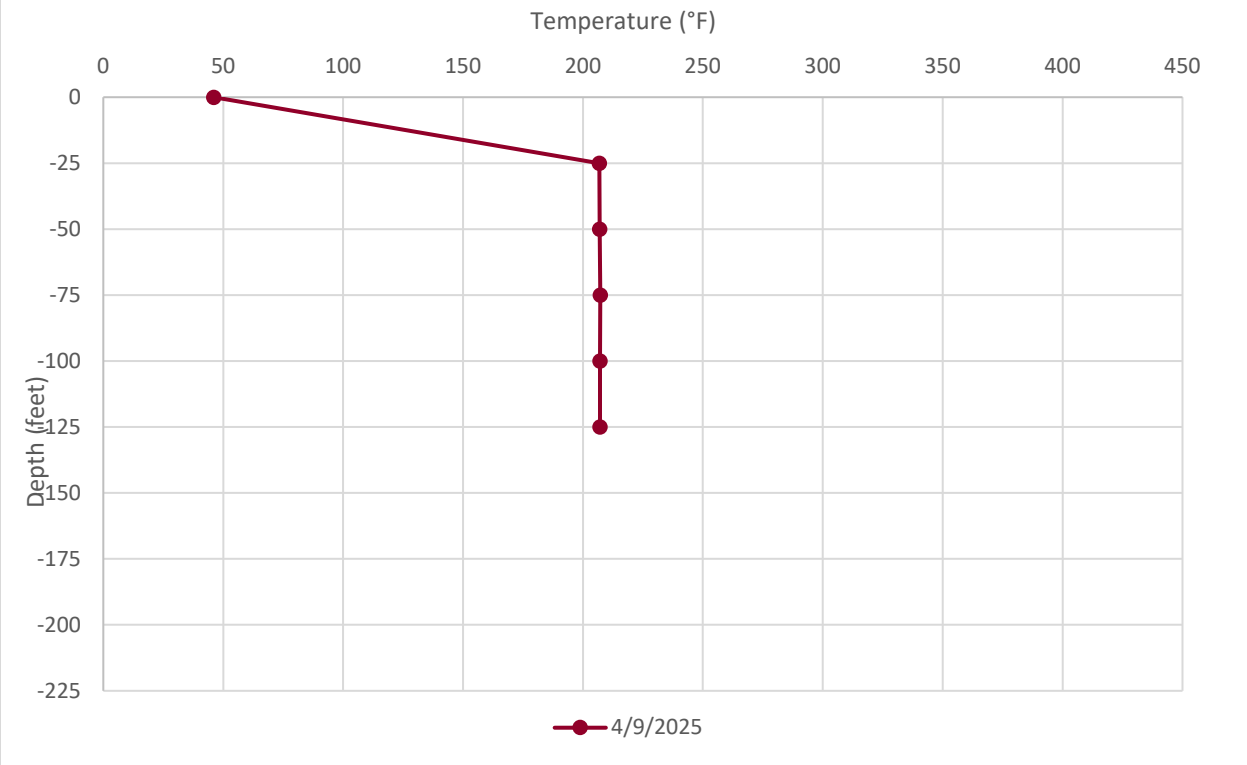


Figure B - 23 Average Temperatures Recorded by TP-6 on April 16, 2025

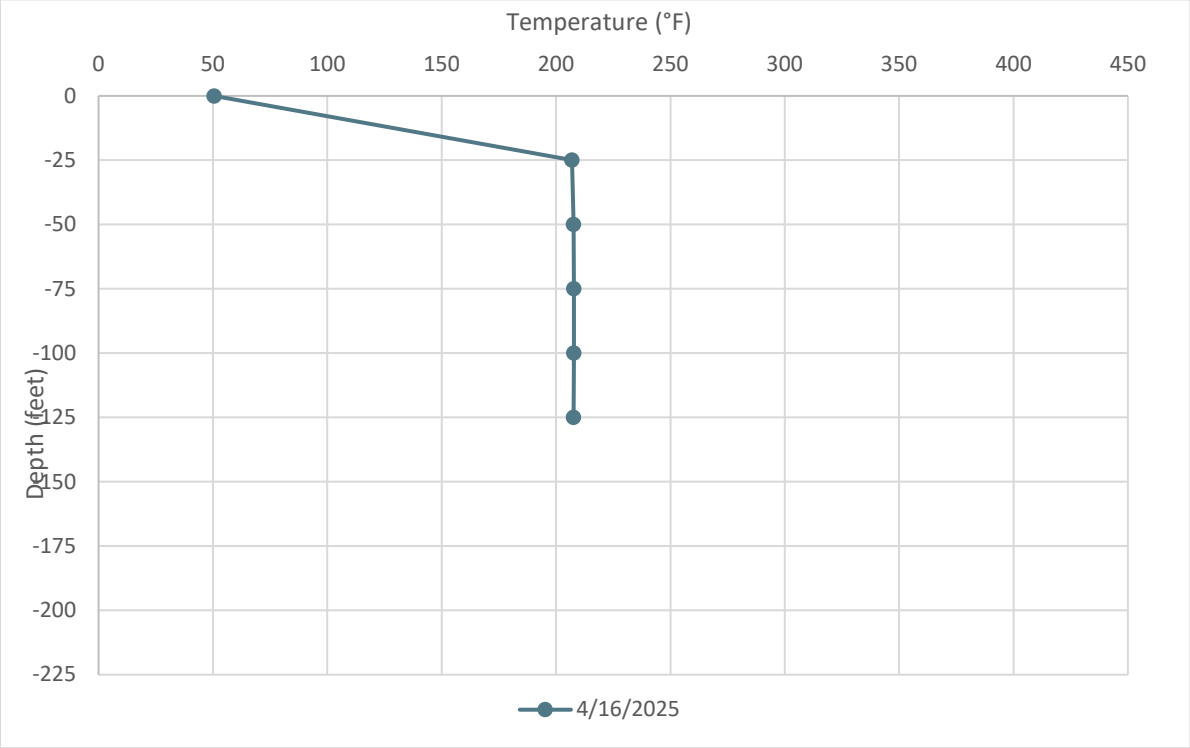


Figure B - 24 Average Temperatures Recorded by TP-6 on April 23, 2025

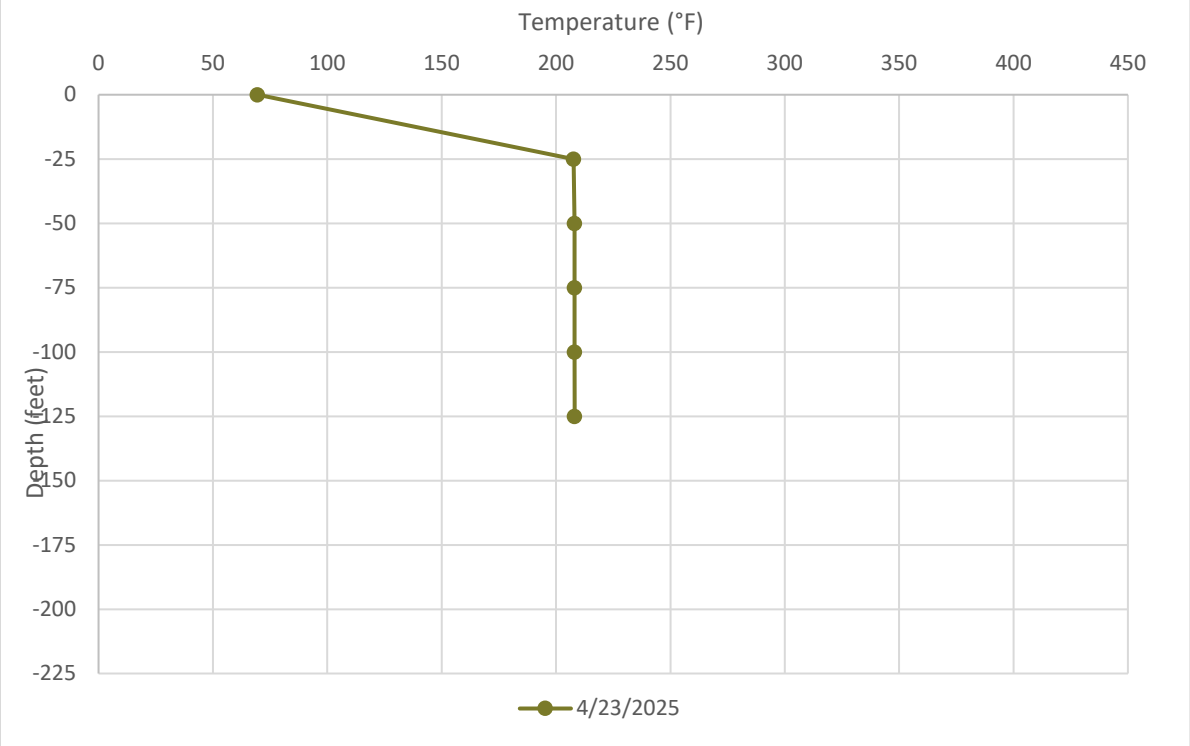


Figure B - 25 Average Temperatures Recorded by TP-6 on April 30, 2025

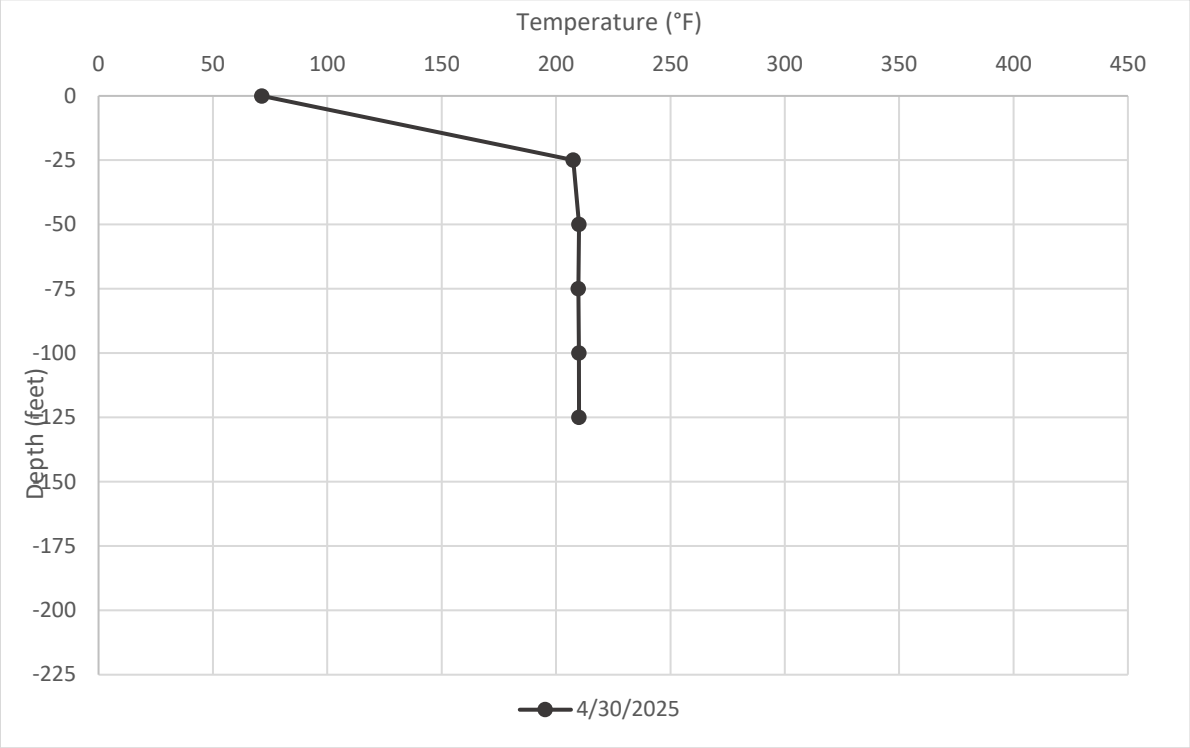


Figure B - 26 Average Temperatures Recorded by TP-7 on April 2, 2025

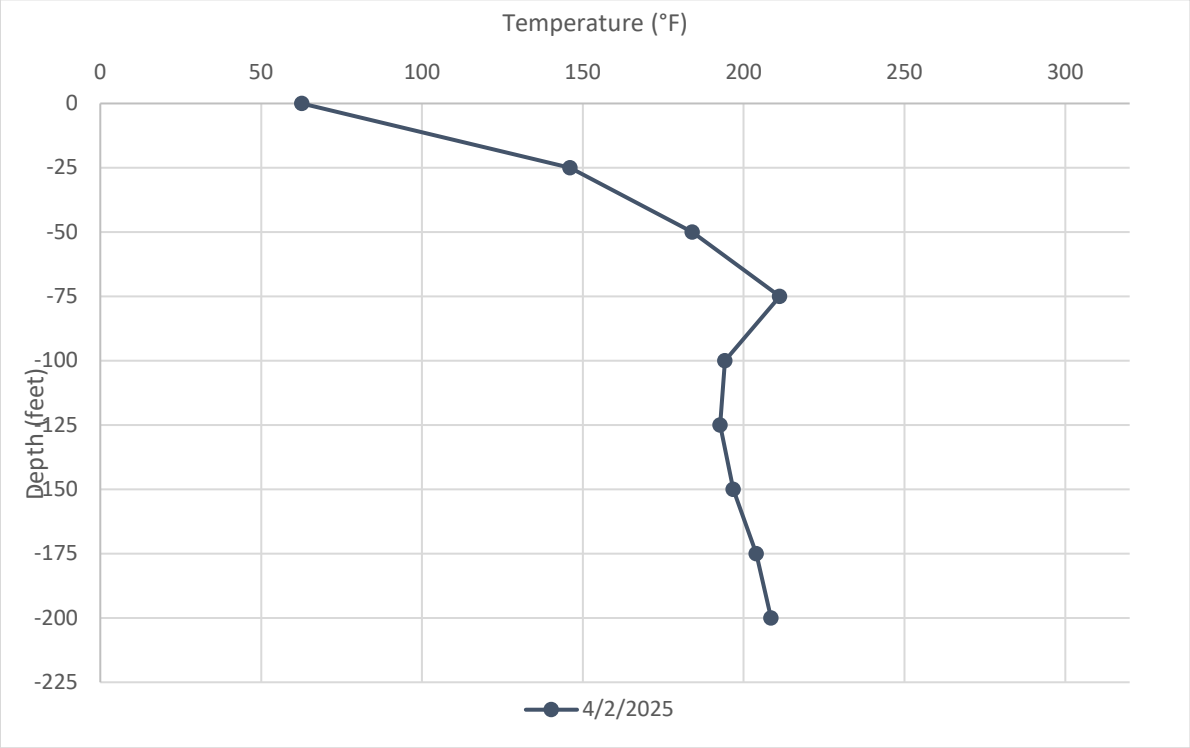


Figure B - 27 Average Temperatures Recorded by TP-7 on April 9, 2025

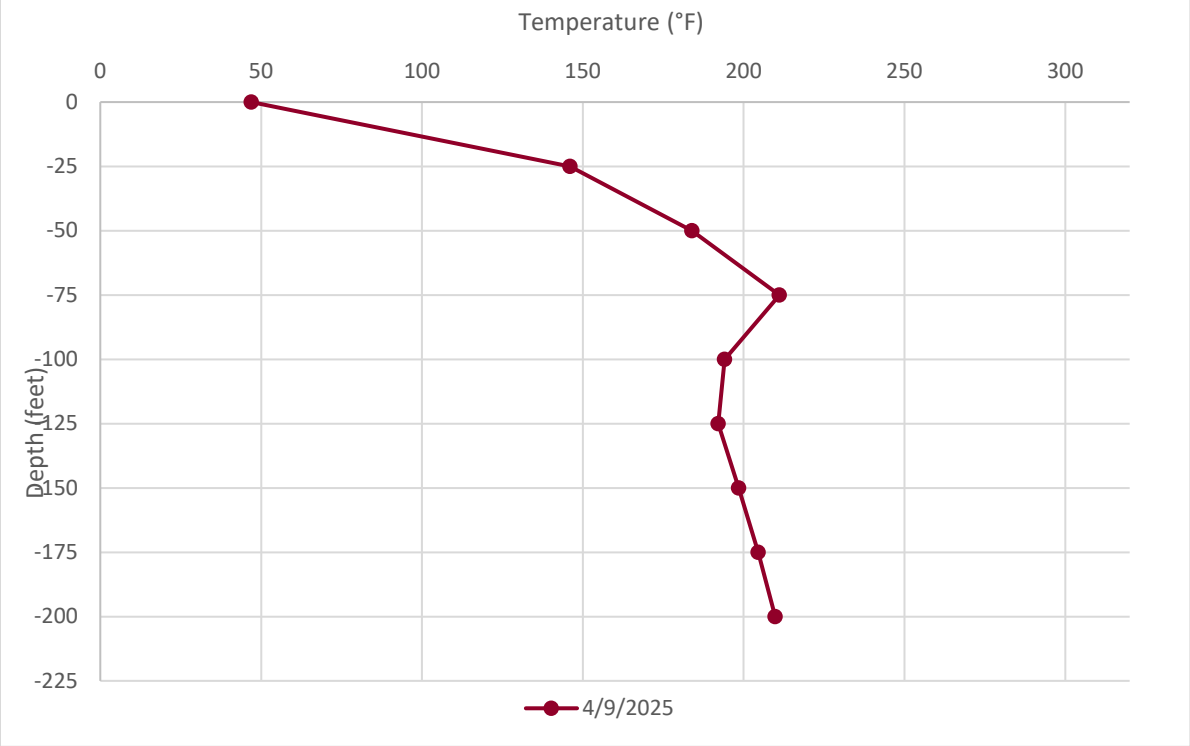


Figure B - 28 Average Temperatures Recorded by TP-7 on April 16, 2025

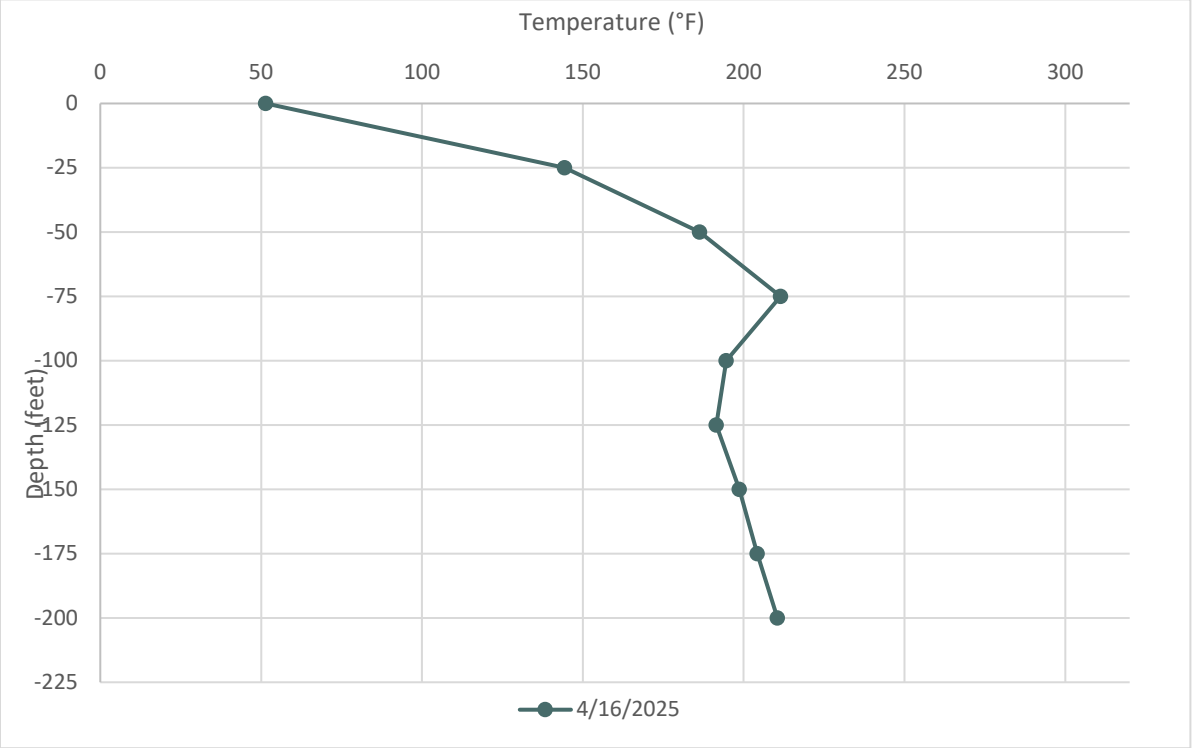


Figure B - 29 Average Temperatures Recorded by TP-7 on April 23, 2025

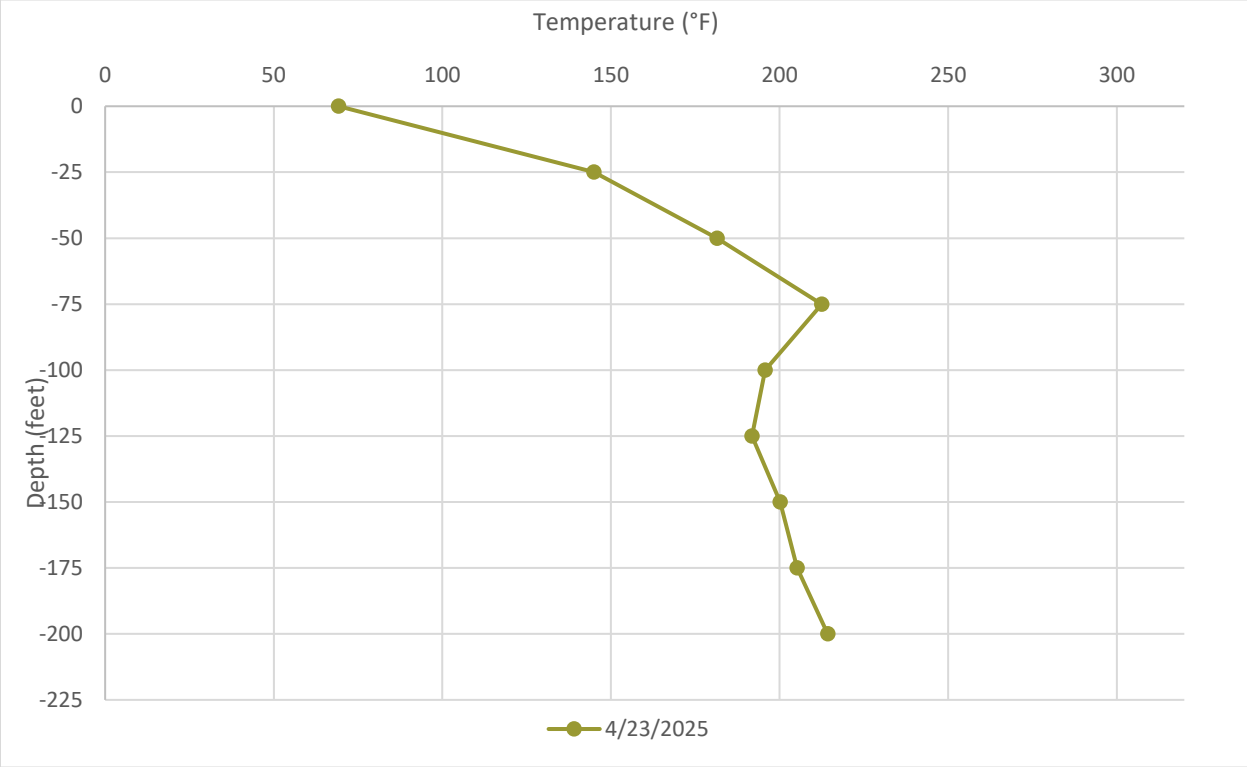


Figure B - 30 Average Temperatures Recorded by TP-7 on April 30, 2025

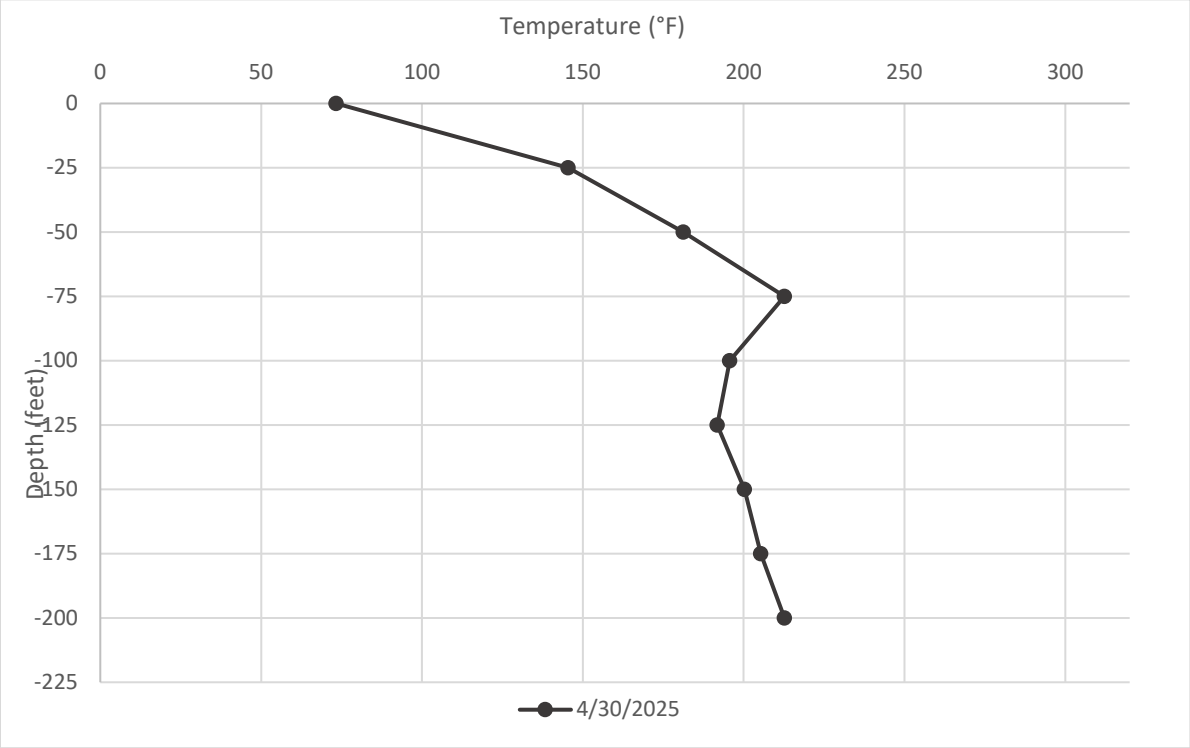


Figure B - 31 Average Temperatures Recorded by TP-8 on April 2, 2025

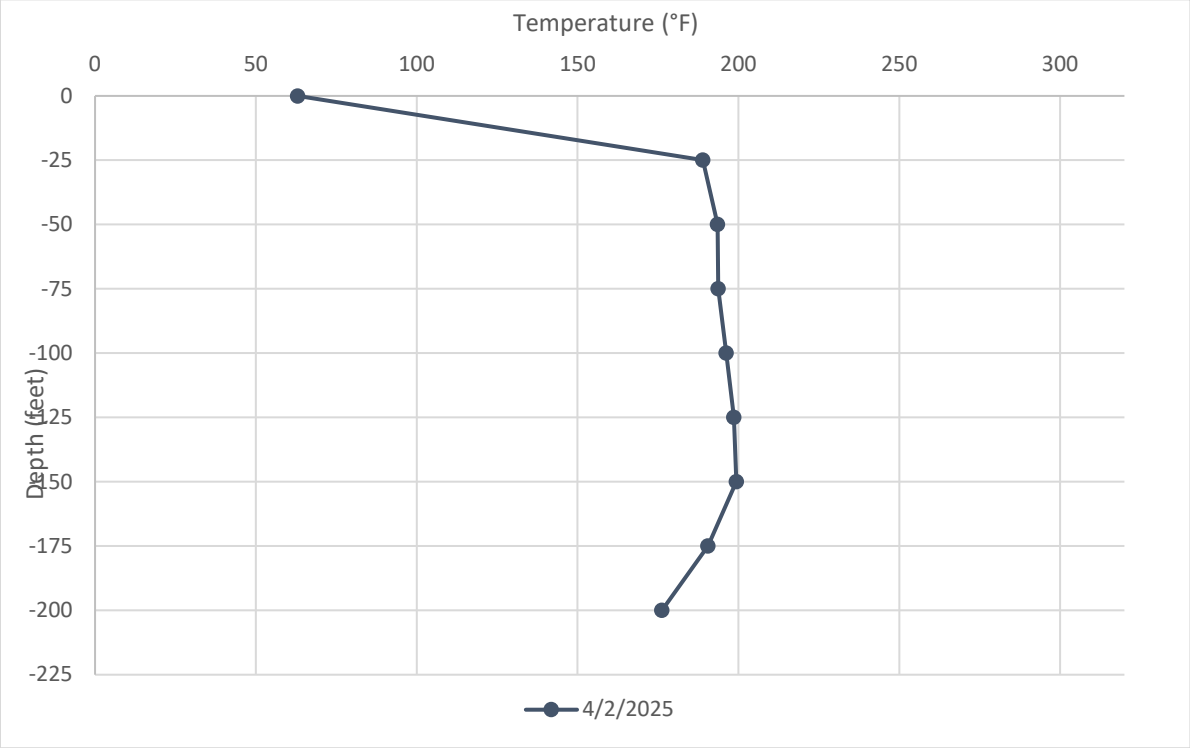


Figure B - 32 Average Temperatures Recorded by TP-8 on April 9, 2025

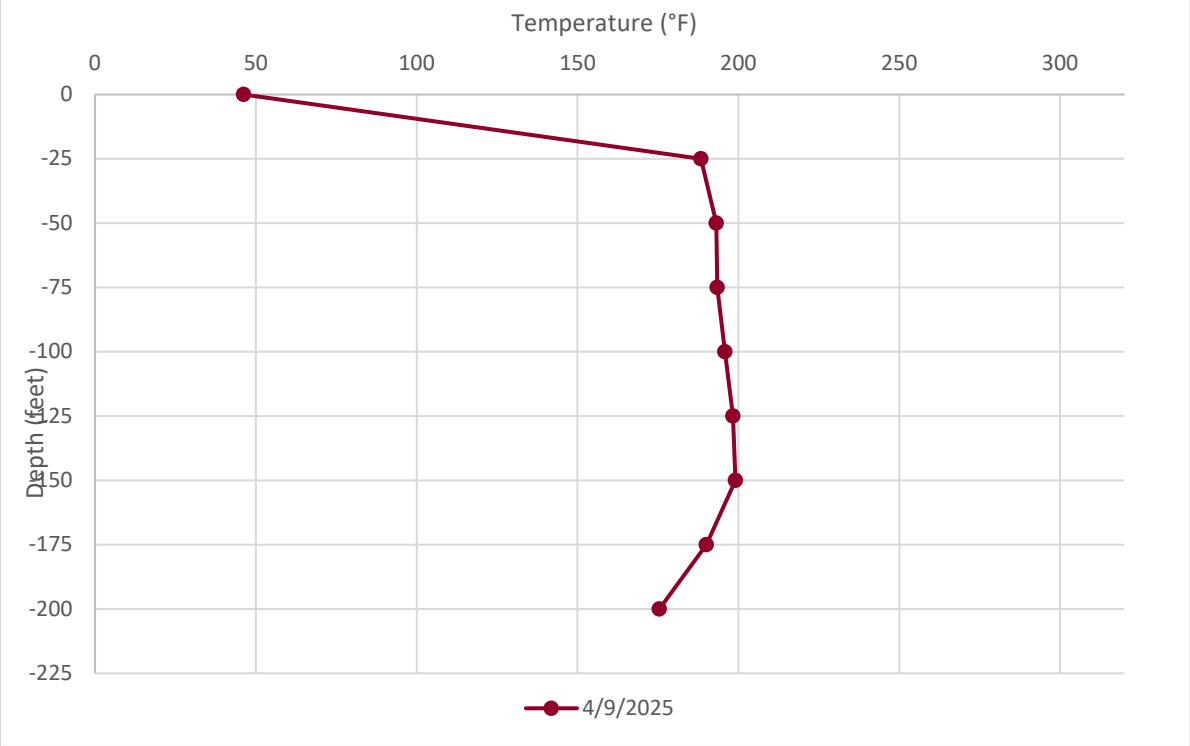


Figure B - 33 Average Temperatures Recorded by TP-8 on April 16, 2025

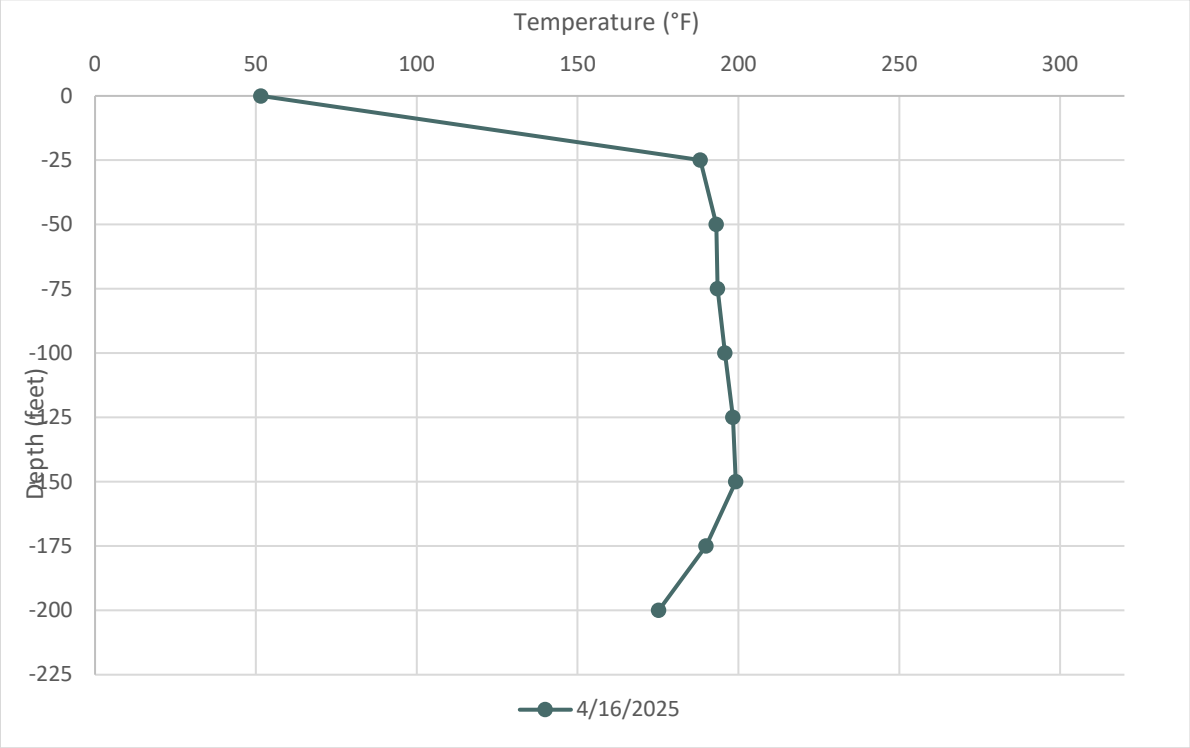


Figure B - 34 Average Temperatures Recorded by TP-8 on April 23, 2025

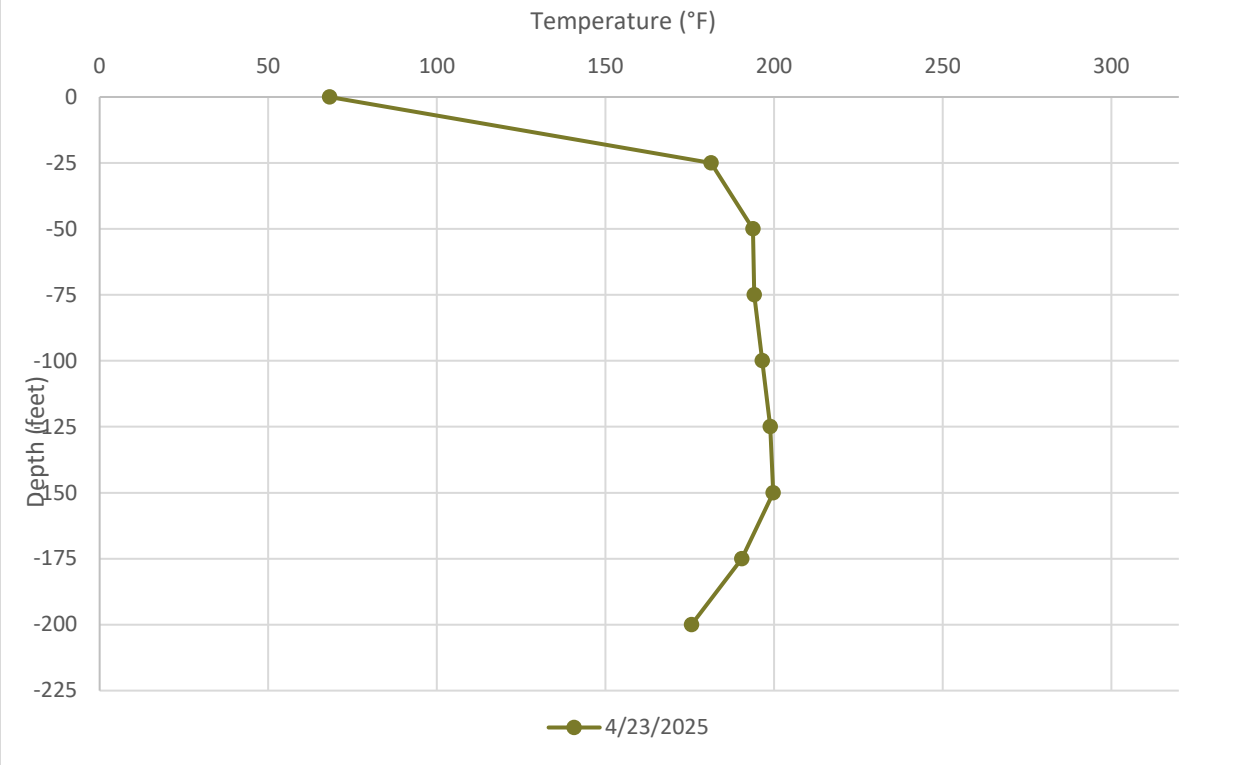


Figure B - 35 Average Temperatures Recorded by TP-8 on April 30, 2025

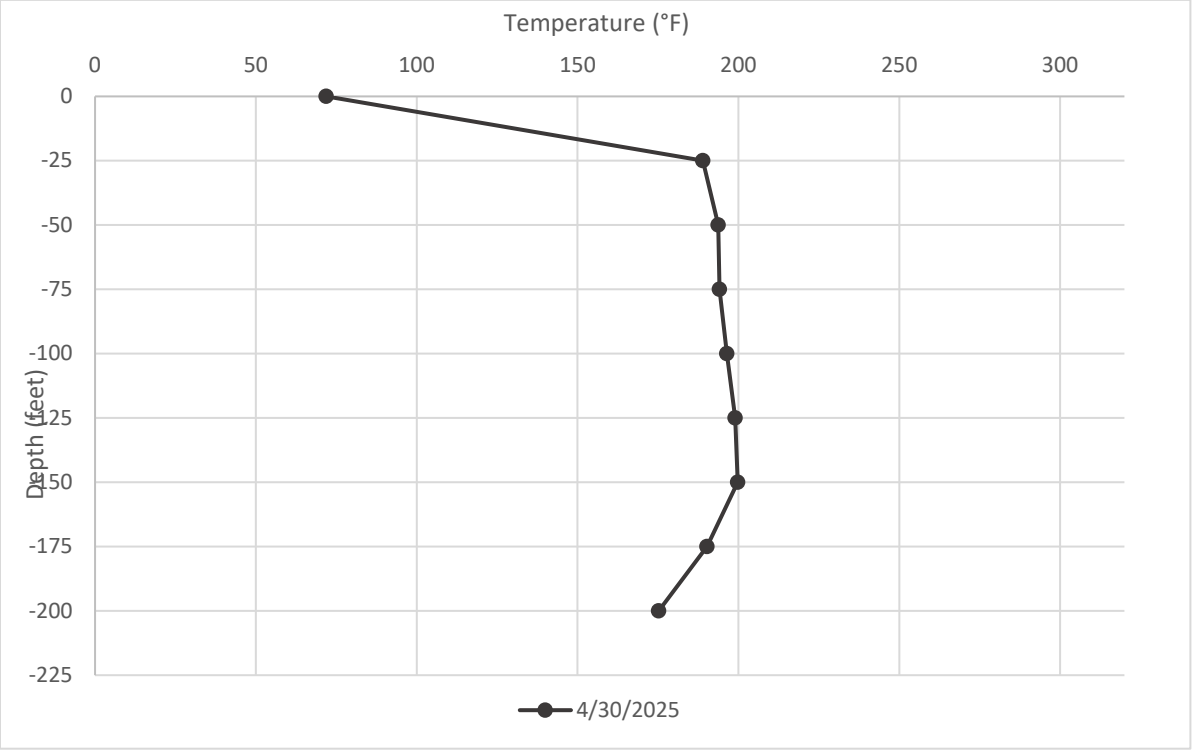


Figure B - 36 Average Temperatures Recorded by TP-9 on April 2, 2025

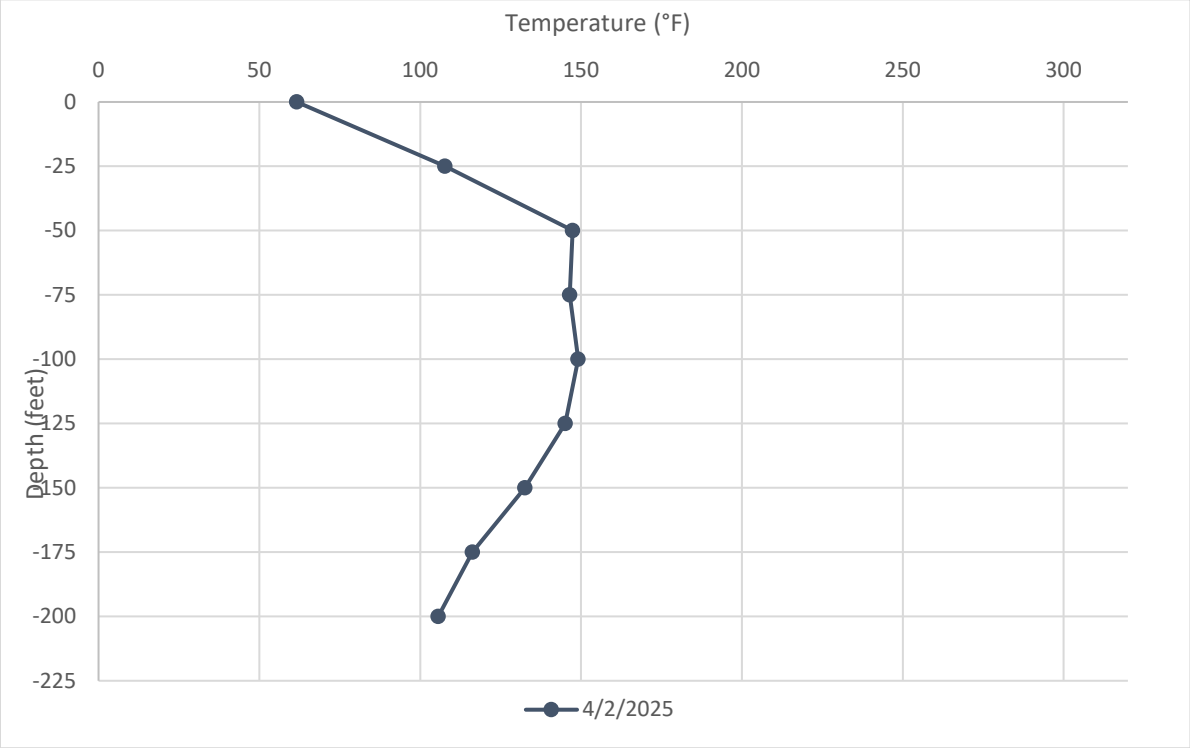


Figure B - 37 Average Temperatures Recorded by TP-9 on April 9, 2025

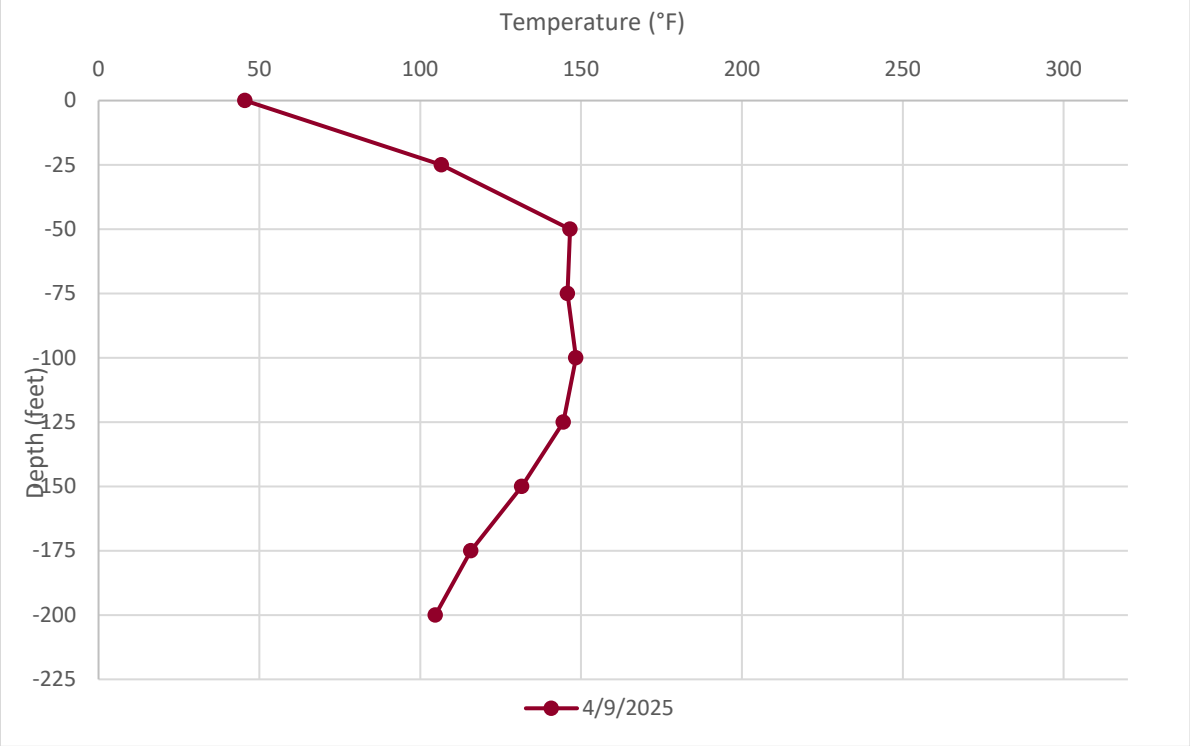


Figure B - 38 Average Temperatures Recorded by TP-9 on April 16, 2025

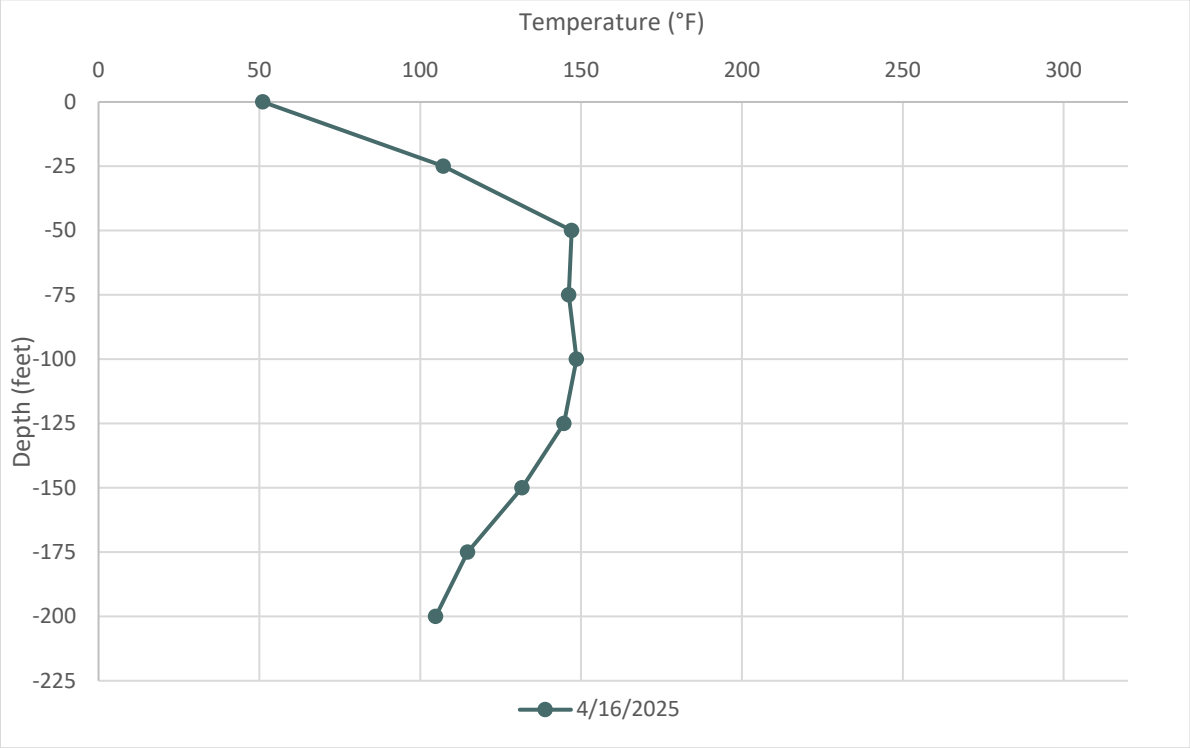


Figure B - 39 Average Temperatures Recorded by TP-9 on April 23, 2025

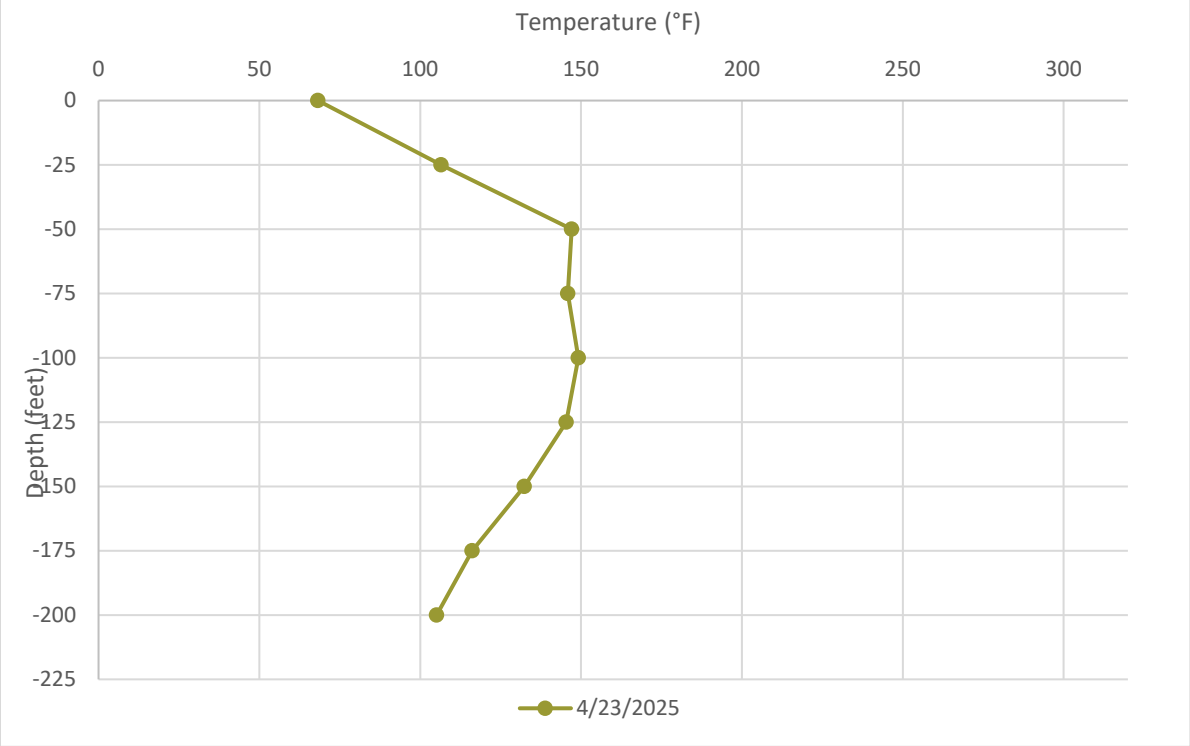
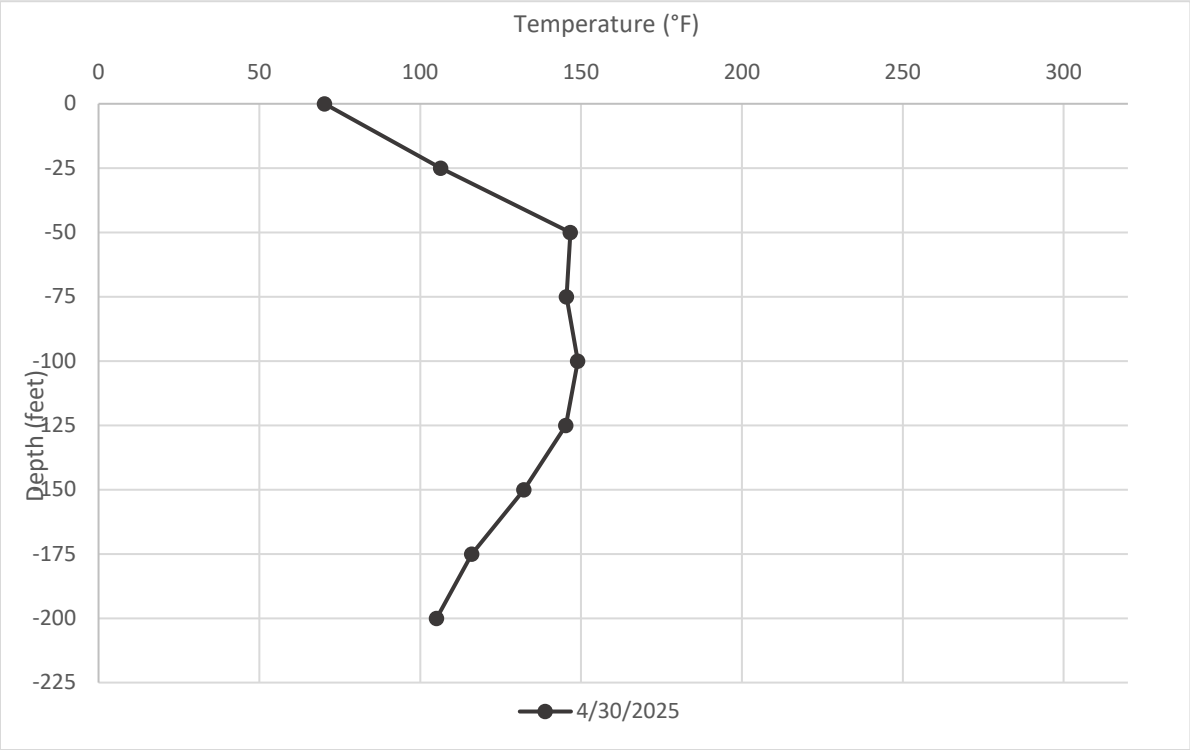


Figure B - 40 Average Temperatures Recorded by TP-9 on April 30, 2025



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 | May 1, 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)
Apr 1	103.9	99.0	110.9
Apr 2	107.9	104.4	112.2
Apr 3	109.5	107.4	113.5
Apr 4	110.0	107.0	113.4
Apr 5	111.7	108.7	116.8
Apr 6	109.5	105.0	112.6
Apr 7	106.7	102.4	111.0
Apr 8	93.4	38.6	104.5
Apr 9	80.0	29.3	106.4
Apr 10	100.4	95.3	105.5
Apr 11	97.4	92.3	102.6
Apr 12	95.4	91.8	102.2
Apr 13	99.3	92.7	105.1
Apr 14	103.5	98.1	109.6
Apr 15	99.5	94.2	104.4
Apr 16	98.5	93.1	105.3
Apr 17	100.8	92.9	107.4
Apr 18	103.6	97.6	110.7
Apr 19	103.7	99.8	108.9
Apr 20	106.0	99.9	113.0
Apr 21	105.0	98.3	110.9
Apr 22	102.1	99.3	106.2
Apr 23	102.8	97.5	109.9
Apr 24	102.5	99.6	105.7
Apr 25	103.3	98.4	108.7
Apr 26	101.3	93.4	107.5
Apr 27	98.9	93.5	106.7
Apr 28	102.7	96.4	109.5
Apr 29	103.8	97.5	110.4
Apr 30	104.8	100.3	110.8
Summary	**102.3**	**80.0**	**111.7**

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

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	100.8	90.5	112.7
Apr 2	109.0	99.6	118.3
Apr 3	119.5	117.1	121.2
Apr 4	120.6	117.3	123.2
Apr 5	120.0	117.7	122.4
Apr 6	115.4	112.2	119.0
Apr 7	110.2	105.3	116.6
Apr 8	96.2	43.9	110.0
Apr 9	77.9	31.6	110.0
Apr 10	101.7	89.0	105.4
Apr 11	94.0	84.3	100.5
Apr 12	89.0	83.0	96.4
Apr 13	95.1	86.2	100.7
Apr 14	106.0	91.1	116.6
Apr 15	103.4	98.1	110.1
Apr 16	101.4	96.5	107.0
Apr 17	104.8	96.9	111.9
Apr 18	105.6	99.1	111.9
Apr 19	105.3	100.8	109.9
Apr 20	106.0	99.1	114.9
Apr 21	103.4	95.0	111.6
Apr 22	99.2	96.0	104.2
Apr 23	100.3	93.7	110.4
Apr 24	99.0	92.6	103.7
Apr 25	97.4	84.1	105.3
Apr 26	93.0	84.5	102.6
Apr 27	89.4	80.5	98.2
Apr 28	97.4	88.1	108.0
Apr 29	97.1	87.1	106.3
Apr 30	98.0	93.1	107.4
Summary	**101.9**	**77.9**	**120.6**

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

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	57.7	45.3	82.8
Apr 2	67.2	50.9	86.1
Apr 3	75.8	64.9	91.9
Apr 4	78.3	62.9	95.4
Apr 5	78.2	62.3	99.8
Apr 6	67.8	62.3	74.3
Apr 7	58.2	49.6	62.8
Apr 8	52.0	43.5	66.0
Apr 9	55.3	35.4	80.4
Apr 10	53.1	47.3	72.1
Apr 11	48.9	44.3	53.6
Apr 12	47.9	41.3	66.0
Apr 13	54.7	35.3	79.0
Apr 14	66.7	45.3	91.0
Apr 15	60.9	53.1	70.7
Apr 16	58.0	43.9	77.8
Apr 17	62.4	40.9	86.3
Apr 18	70.9	49.5	98.2
Apr 19	72.1	55.6	93.7
Apr 20	77.3	58.2	104.2
Apr 21	72.9	58.3	93.3
Apr 22	68.1	62.2	81.9
Apr 23	74.6	59.6	100.4
Apr 24	70.6	62.8	84.5
Apr 25	70.2	62.6	86.1
Apr 26	69.2	58.3	85.4
Apr 27	65.6	51.4	86.9
Apr 28	73.6	56.8	98.3
Apr 29	73.2	55.4	94.9
Apr 30	75.3	66.6	94.9
Summary	**65.9**	**47.9**	**78.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 38

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	92.5	88.6	99.8
Apr 2	95.6	91.2	100.6
Apr 3	99.2	97.1	102.2
Apr 4	100.2	97.8	104.2
Apr 5	100.5	97.3	104.8
Apr 6	97.9	95.7	99.3
Apr 7	97.0	94.9	99.6
Apr 8	87.7	52.2	97.1
Apr 9	78.1	45.4	97.2
Apr 10	92.0	88.5	96.8
Apr 11	92.2	89.1	94.8
Apr 12	90.3	87.6	94.9
Apr 13	92.3	87.9	97.2
Apr 14	95.2	89.9	100.4
Apr 15	88.7	82.4	95.2
Apr 16	85.8	81.3	92.1
Apr 17	87.7	79.6	94.6
Apr 18	91.8	84.8	99.7
Apr 19	93.4	89.2	99.1
Apr 20	95.2	90.2	101.4
Apr 21	95.0	91.3	100.4
Apr 22	94.5	93.2	97.8
Apr 23	95.6	91.4	101.1
Apr 24	95.2	93.3	98.7
Apr 25	95.3	91.4	100.1
Apr 26	94.7	91.0	98.7
Apr 27	93.2	90.8	98.2
Apr 28	95.5	91.7	100.8
Apr 29	95.8	91.4	100.5
Apr 30	96.6	93.7	101.2
Summary	**93.5**	**78.1**	**100.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 42

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	100.0	95.7	106.2
Apr 2	103.3	99.2	107.5
Apr 3	106.1	104.2	108.6
Apr 4	106.7	104.3	109.9
Apr 5	106.9	104.4	110.6
Apr 6	104.3	102.9	106.1
Apr 7	102.1	99.3	104.1
Apr 8	97.1	56.1	111.5
Apr 9	92.4	48.1	111.7
Apr 10	108.7	106.9	110.7
Apr 11	108.0	107.1	109.1
Apr 12	107.6	106.7	109.2
Apr 13	108.4	106.5	110.7
Apr 14	109.8	107.7	112.2
Apr 15	108.3	106.7	109.9
Apr 16	107.7	105.5	110.1
Apr 17	108.7	106.0	111.3
Apr 18	109.7	107.0	112.4
Apr 19	109.8	107.8	111.9
Apr 20	110.3	107.9	113.2
Apr 21	109.9	108.2	112.8
Apr 22	110.2	109.2	111.8
Apr 23	110.7	109.1	113.0
Apr 24	110.6	109.7	112.2
Apr 25	110.3	108.4	112.1
Apr 26	110.0	107.6	112.2
Apr 27	109.7	107.9	112.0
Apr 28	110.7	109.0	112.9
Apr 29	110.7	108.7	112.9
Apr 30	110.9	109.6	113.3
Summary	**107.3**	**92.4**	**110.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 47

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	55.7	46.6	71.7
Apr 2	67.0	50.1	82.5
Apr 3	74.9	65.3	89.1
Apr 4	76.7	64.8	92.1
Apr 5	77.3	64.2	96.2
Apr 6	68.9	63.9	75.0
Apr 7	62.8	56.1	70.5
Apr 8	53.7	40.4	63.4
Apr 9	52.8	29.9	75.5
Apr 10	56.1	51.1	68.7
Apr 11	53.6	50.2	58.2
Apr 12	51.4	46.8	64.3
Apr 13	56.9	39.2	74.5
Apr 14	67.2	48.6	86.0
Apr 15	61.5	53.1	68.9
Apr 16	57.0	42.5	74.8
Apr 17	60.9	38.4	80.9
Apr 18	69.4	49.6	94.5
Apr 19	70.7	54.9	91.7
Apr 20	75.5	57.2	96.9
Apr 21	71.7	57.0	90.5
Apr 22	69.1	62.9	80.7
Apr 23	72.7	59.8	91.5
Apr 24	71.8	64.0	84.5
Apr 25	72.1	64.8	87.7
Apr 26	71.0	61.1	82.6
Apr 27	65.7	54.9	82.5
Apr 28	73.6	58.5	90.2
Apr 29	74.5	57.1	90.0
Apr 30	77.1	69.0	89.3
Summary	**66.3**	**51.4**	**77.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 48

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	52.4	41.1	73.2
Apr 2	65.3	45.7	83.4
Apr 3	74.9	62.0	88.9
Apr 4	75.7	60.3	91.8
Apr 5	75.6	59.3	94.3
Apr 6	65.9	59.5	74.4
Apr 7	54.8	45.1	62.0
Apr 8	45.9	37.2	58.0
Apr 9	50.0	29.9	71.8
Apr 10	48.9	42.1	65.0
Apr 11	45.9	42.0	51.3
Apr 12	43.5	35.8	60.4
Apr 13	49.0	29.9	71.2
Apr 14	63.3	40.1	85.7
Apr 15	58.9	51.3	68.0
Apr 16	54.1	37.0	71.2
Apr 17	57.9	34.5	79.7
Apr 18	68.1	45.0	91.9
Apr 19	69.6	51.9	90.5
Apr 20	75.0	55.2	97.0
Apr 21	70.4	54.3	90.4
Apr 22	66.3	58.8	79.9
Apr 23	70.6	55.8	92.5
Apr 24	68.3	60.2	83.8
Apr 25	69.1	60.5	87.7
Apr 26	67.6	54.6	82.6
Apr 27	60.5	45.5	81.3
Apr 28	70.7	51.5	91.3
Apr 29	71.2	50.0	88.9
Apr 30	74.0	64.4	91.2
Summary	**62.8**	**43.5**	**75.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 49

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	153.5	147.9	158.6
Apr 2	153.0	150.4	156.4
Apr 3	154.5	152.2	157.1
Apr 4	155.5	153.4	156.9
Apr 5	155.2	154.0	157.1
Apr 6	152.5	144.6	155.3
Apr 7	151.6	147.1	154.8
Apr 8	134.7	40.6	151.9
Apr 9	120.4	29.9	157.1
Apr 10	152.5	148.5	154.2
Apr 11	150.8	147.2	153.6
Apr 12	149.1	146.3	152.0
Apr 13	151.0	148.6	153.2
Apr 14	152.5	150.6	154.9
Apr 15	147.6	143.8	151.9
Apr 16	148.5	144.7	150.6
Apr 17	151.3	146.9	154.2
Apr 18	151.1	146.0	155.3
Apr 19	105.5	82.1	142.7
Apr 20	88.8	70.3	112.8
Apr 21	110.8	70.2	166.4
Apr 22	158.9	156.3	161.1
Apr 23	156.1	153.5	158.3
Apr 24	155.2	153.5	156.7
Apr 25	154.4	151.3	157.6
Apr 26	151.4	148.0	153.8
Apr 27	151.4	145.4	154.1
Apr 28	153.5	150.5	156.4
Apr 29	153.2	150.5	156.7
Apr 30	153.6	150.4	156.7
Summary	**145.9**	**88.8**	**158.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 50

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	96.2	90.7	101.2
Apr 2	98.1	91.5	107.6
Apr 3	100.9	98.6	104.8
Apr 4	101.1	98.1	104.3
Apr 5	100.2	97.4	104.2
Apr 6	97.6	96.1	99.3
Apr 7	96.3	93.2	101.7
Apr 8	86.7	40.9	98.4
Apr 9	75.9	29.9	98.9
Apr 10	93.7	91.1	100.0
Apr 11	92.2	90.1	99.9
Apr 12	90.1	87.9	93.5
Apr 13	92.0	87.6	96.7
Apr 14	96.3	90.2	101.8
Apr 15	92.8	86.7	97.1
Apr 16	90.2	85.6	97.4
Apr 17	93.5	83.6	104.7
Apr 18	94.8	85.3	103.4
Apr 19	75.1	58.8	90.0
Apr 20	74.6	56.2	96.1
Apr 21	79.4	54.6	107.2
Apr 22	99.2	95.0	106.7
Apr 23	99.0	93.2	104.7
Apr 24	98.6	94.0	104.5
Apr 25	97.7	93.2	105.8
Apr 26	94.8	90.1	99.3
Apr 27	92.8	89.5	99.3
Apr 28	97.1	89.7	107.0
Apr 29	96.9	89.9	104.6
Apr 30	98.7	91.9	105.9
Summary	**93.1**	**74.6**	**101.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 51

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	54.1	42.5	76.5
Apr 2	66.0	47.5	85.1
Apr 3	75.3	64.0	90.5
Apr 4	76.4	61.9	91.4
Apr 5	77.0	61.1	98.6
Apr 6	67.3	60.9	74.8
Apr 7	56.4	46.6	63.8
Apr 8	46.8	38.5	61.1
Apr 9	49.1	29.0	72.6
Apr 10	50.3	43.3	66.0
Apr 11	47.0	42.4	51.8
Apr 12	43.8	37.9	57.3
Apr 13	50.2	29.2	75.2
Apr 14	63.7	41.2	88.3
Apr 15	58.2	49.3	66.8
Apr 16	53.0	37.2	71.9
Apr 17	57.7	34.4	79.9
Apr 18	67.2	45.2	94.5
Apr 19	69.6	52.3	91.9
Apr 20	74.6	54.9	97.6
Apr 21	70.6	54.6	91.5
Apr 22	66.8	60.2	79.4
Apr 23	70.9	56.8	92.9
Apr 24	69.2	60.7	83.7
Apr 25	69.0	61.3	87.2
Apr 26	68.1	56.7	82.2
Apr 27	60.7	47.5	81.9
Apr 28	70.1	53.2	92.0
Apr 29	70.7	50.8	91.3
Apr 30	74.4	65.7	89.5
Summary	**63.2**	**43.8**	**77.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 52

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	141.9	132.0	147.1
Apr 2	142.6	137.9	147.8
Apr 3	139.8	137.1	142.5
Apr 4	140.6	137.4	143.4
Apr 5	145.1	138.0	150.5
Apr 6	147.0	142.5	149.8
Apr 7	144.0	129.0	160.8
Apr 8	127.0	94.2	150.3
Apr 9	119.7	77.5	136.4
Apr 10	132.0	125.2	135.2
Apr 11	129.1	111.4	134.9
Apr 12	131.7	128.5	135.6
Apr 13	136.6	133.5	139.5
Apr 14	137.1	118.6	141.1
Apr 15	112.2	75.1	139.9
Apr 16	110.4	75.5	133.9
Apr 17	127.4	110.0	139.4
Apr 18	140.7	137.4	144.9
Apr 19	142.9	139.9	145.2
Apr 20	145.6	142.4	149.4
Apr 21	146.2	143.0	149.4
Apr 22	146.5	144.8	148.7
Apr 23	147.7	144.6	151.2
Apr 24	148.4	146.6	150.0
Apr 25	148.9	146.6	150.9
Apr 26	148.0	146.0	149.5
Apr 27	147.4	145.4	149.6
Apr 28	147.9	112.3	151.4
Apr 29	150.2	147.6	152.7
Apr 30	151.7	150.1	154.0
Summary	**139.2**	**110.4**	**151.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 53

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	80.6	64.2	103.5
Apr 2	92.9	77.0	109.6
Apr 3	101.0	94.2	113.2
Apr 4	105.2	94.7	118.8
Apr 5	108.1	96.0	124.1
Apr 6	98.9	90.0	104.6
Apr 7	83.2	71.6	100.3
Apr 8	74.9	66.5	89.8
Apr 9	82.1	59.4	104.5
Apr 10	82.3	72.6	97.6
Apr 11	72.6	64.6	81.0
Apr 12	71.0	63.2	87.4
Apr 13	80.8	60.3	101.4
Apr 14	92.5	72.8	113.5
Apr 15	82.2	73.0	93.3
Apr 16	81.8	69.6	100.0
Apr 17	88.7	64.1	111.0
Apr 18	98.6	79.3	120.2
Apr 19	101.3	87.1	118.7
Apr 20	104.5	89.5	123.3
Apr 21	101.2	86.7	119.2
Apr 22	98.8	92.4	110.8
Apr 23	103.0	90.6	122.1
Apr 24	101.0	94.9	112.5
Apr 25	101.1	87.5	115.3
Apr 26	90.7	77.8	104.5
Apr 27	86.1	70.2	105.8
Apr 28	95.5	79.1	114.7
Apr 29	98.9	80.9	116.8
Apr 30	101.7	92.9	113.5
Summary	**92.0**	**71.0**	**108.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 54

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	56.0	44.6	76.1
Apr 2	67.6	49.8	85.7
Apr 3	77.0	67.4	91.3
Apr 4	78.0	65.1	92.1
Apr 5	79.1	64.7	98.7
Apr 6	69.4	63.4	76.3
Apr 7	60.8	51.2	68.2
Apr 8	51.2	40.8	63.9
Apr 9	51.8	29.5	75.7
Apr 10	54.5	48.3	69.9
Apr 11	51.6	48.0	55.3
Apr 12	49.6	44.1	62.6
Apr 13	56.4	37.0	79.0
Apr 14	71.4	49.5	94.0
Apr 15	66.4	58.1	77.4
Apr 16	63.5	50.8	82.1
Apr 17	67.4	43.6	87.9
Apr 18	78.9	55.8	104.0
Apr 19	81.3	65.6	98.9
Apr 20	85.9	67.0	107.0
Apr 21	81.9	69.2	99.4
Apr 22	82.4	73.9	94.0
Apr 23	86.0	73.1	106.2
Apr 24	81.3	74.3	92.3
Apr 25	80.9	71.0	96.6
Apr 26	80.0	67.2	93.9
Apr 27	74.5	63.8	94.0
Apr 28	83.9	68.6	103.1
Apr 29	82.3	64.5	99.4
Apr 30	82.2	71.7	96.2
Summary	**71.1**	**49.6**	**86.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 55

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	109.4	101.3	119.2
Apr 2	113.0	108.6	129.3
Apr 3	114.1	110.8	117.7
Apr 4	116.2	113.1	119.7
Apr 5	117.0	114.5	121.5
Apr 6	113.1	103.4	117.3
Apr 7	109.9	104.5	115.9
Apr 8	96.5	50.0	107.9
Apr 9	93.8	43.8	117.6
Apr 10	106.3	98.1	114.2
Apr 11	101.7	95.0	107.4
Apr 12	101.2	95.4	108.5
Apr 13	102.6	95.9	111.3
Apr 14	107.0	99.2	115.6
Apr 15	96.5	90.4	109.1
Apr 16	100.7	92.0	109.4
Apr 17	109.3	97.1	120.9
Apr 18	114.0	105.3	125.4
Apr 19	115.4	109.8	121.4
Apr 20	119.2	111.6	129.5
Apr 21	119.0	113.2	128.6
Apr 22	119.2	116.4	121.6
Apr 23	119.2	113.5	127.6
Apr 24	116.9	114.6	120.7
Apr 25	115.8	105.5	120.7
Apr 26	113.3	108.8	118.4
Apr 27	113.7	109.7	120.7
Apr 28	116.9	112.9	123.8
Apr 29	117.3	112.2	122.8
Apr 30	119.0	115.7	126.4
Summary	**110.9**	**93.8**	**119.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 56

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	151.7	148.9	156.0
Apr 2	153.3	151.7	155.3
Apr 3	154.5	153.7	155.8
Apr 4	154.6	153.6	156.1
Apr 5	155.5	154.1	157.9
Apr 6	154.7	151.3	155.9
Apr 7	153.9	152.3	156.0
Apr 8	149.0	133.2	153.5
Apr 9	151.2	138.2	157.0
Apr 10	154.7	151.5	155.7
Apr 11	153.9	152.3	155.1
Apr 12	153.3	151.8	155.4
Apr 13	154.0	152.4	155.4
Apr 14	155.0	153.6	157.0
Apr 15	152.5	150.8	155.1
Apr 16	152.6	149.6	154.9
Apr 17	153.7	150.4	155.8
Apr 18	154.5	152.8	157.8
Apr 19	154.4	152.8	156.8
Apr 20	155.3	153.2	158.0
Apr 21	155.0	153.4	156.8
Apr 22	154.7	152.2	155.9
Apr 23	155.1	152.6	158.1
Apr 24	155.5	154.3	156.6
Apr 25	155.5	152.4	157.8
Apr 26	154.1	150.8	156.3
Apr 27	154.1	152.1	157.3
Apr 28	155.5	152.6	158.5
Apr 29	156.3	154.2	159.1
Apr 30	156.8	155.5	158.6
Summary	**154.2**	**149.0**	**156.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 57

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	68.5	56.9	89.3
Apr 2	78.5	61.0	95.6
Apr 3	86.4	78.3	99.6
Apr 4	89.5	77.1	105.7
Apr 5	90.3	75.8	108.7
Apr 6	78.4	71.8	85.6
Apr 7	68.8	58.6	76.0
Apr 8	60.1	48.0	76.6
Apr 9	62.0	37.8	88.5
Apr 10	63.7	56.0	80.9
Apr 11	58.7	53.3	63.9
Apr 12	56.8	49.7	72.3
Apr 13	63.2	40.6	87.3
Apr 14	76.1	56.2	98.2
Apr 15	68.5	59.5	78.2
Apr 16	64.9	50.0	82.4
Apr 17	68.9	42.7	91.7
Apr 18	77.8	55.4	102.5
Apr 19	80.0	62.7	101.1
Apr 20	84.7	65.4	107.0
Apr 21	81.4	64.5	100.4
Apr 22	78.1	71.3	92.8
Apr 23	81.7	66.7	103.0
Apr 24	79.2	71.0	94.0
Apr 25	79.5	69.6	98.2
Apr 26	76.8	66.0	92.2
Apr 27	71.2	58.2	90.2
Apr 28	80.1	62.8	99.8
Apr 29	80.5	59.8	99.6
Apr 30	84.7	75.0	100.0
Summary	**74.6**	**56.8**	**90.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 58

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	79.5	72.8	89.0
Apr 2	87.1	78.1	93.7
Apr 3	92.4	88.6	97.2
Apr 4	93.3	88.9	98.6
Apr 5	93.1	87.8	99.4
Apr 6	87.6	82.5	92.6
Apr 7	82.1	76.3	87.4
Apr 8	72.5	44.2	78.9
Apr 9	70.4	33.3	94.4
Apr 10	84.7	80.7	88.7
Apr 11	81.0	77.2	84.4
Apr 12	79.5	75.4	84.8
Apr 13	83.1	75.1	89.8
Apr 14	89.0	80.7	96.5
Apr 15	83.5	80.5	91.5
Apr 16	82.4	78.2	87.9
Apr 17	85.5	73.5	95.8
Apr 18	89.9	80.7	100.0
Apr 19	91.0	82.9	98.4
Apr 20	93.3	84.8	101.8
Apr 21	91.5	84.7	98.5
Apr 22	91.0	88.4	96.0
Apr 23	92.2	87.1	100.3
Apr 24	91.9	88.5	96.6
Apr 25	90.9	85.9	96.5
Apr 26	89.4	84.8	94.5
Apr 27	87.0	82.2	94.8
Apr 28	91.2	84.3	98.2
Apr 29	91.4	83.2	98.5
Apr 30	94.1	89.5	100.1
Summary	**87.1**	**70.4**	**94.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 59

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	105.5	104.3	107.1
Apr 2	106.3	104.1	109.5
Apr 3	107.1	106.0	108.4
Apr 4	107.5	105.7	109.2
Apr 5	107.3	105.9	108.6
Apr 6	106.0	105.3	107.0
Apr 7	105.4	104.4	106.2
Apr 8	95.2	39.5	104.9
Apr 9	85.9	29.4	108.8
Apr 10	104.4	103.6	105.1
Apr 11	104.1	103.7	104.7
Apr 12	103.9	103.3	104.8
Apr 13	104.4	102.8	105.5
Apr 14	105.6	104.0	106.8
Apr 15	104.8	104.0	105.8
Apr 16	105.1	103.9	106.1
Apr 17	105.9	103.2	108.1
Apr 18	106.8	104.9	108.6
Apr 19	107.3	105.5	108.9
Apr 20	107.8	106.2	109.6
Apr 21	107.6	106.0	109.1
Apr 22	107.5	106.9	109.3
Apr 23	107.8	106.4	109.4
Apr 24	107.8	106.9	108.7
Apr 25	107.8	106.7	108.9
Apr 26	107.8	106.6	108.8
Apr 27	107.6	106.5	109.1
Apr 28	112.8	107.0	118.4
Apr 29	118.7	116.7	120.2
Apr 30	120.1	119.3	121.4
Summary	**106.4**	**85.9**	**120.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 60

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	122.4	113.2	146.4
Apr 2	129.5	116.6	155.6
Apr 3	126.0	121.7	146.1
Apr 4	127.1	122.7	149.1
Apr 5	124.9	122.8	128.3
Apr 6	121.9	119.5	123.9
Apr 7	124.5	115.7	154.8
Apr 8	118.2	86.3	145.5
Apr 9	110.1	34.4	138.3
Apr 10	117.0	112.9	139.1
Apr 11	116.5	109.1	150.9
Apr 12	108.8	105.3	112.9
Apr 13	108.2	102.6	113.7
Apr 14	113.0	105.6	135.9
Apr 15	105.2	102.7	110.1
Apr 16	108.8	101.4	138.2
Apr 17	114.9	100.6	141.6
Apr 18	116.4	105.7	145.4
Apr 19	114.2	110.0	118.2
Apr 20	116.2	111.0	122.8
Apr 21	117.5	110.8	145.1
Apr 22	123.2	111.2	150.2
Apr 23	119.3	113.3	138.0
Apr 24	125.8	113.9	149.0
Apr 25	119.8	111.9	145.2
Apr 26	115.3	111.8	120.3
Apr 27	114.4	109.1	120.0
Apr 28	122.2	113.8	147.6
Apr 29	121.5	113.6	149.2
Apr 30	126.6	117.5	151.4
Summary	**118.3**	**105.2**	**129.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 61

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	108.1	94.1	125.0
Apr 2	150.5	108.2	184.8
Apr 3	179.3	178.4	180.7
Apr 4	178.0	177.6	178.4
Apr 5	177.5	176.8	178.3
Apr 6	176.6	175.9	177.6
Apr 7	173.8	171.8	176.9
Apr 8	174.0	169.5	187.2
Apr 9	176.6	170.8	187.6
Apr 10	170.3	168.8	171.2
Apr 11	168.5	166.6	170.3
Apr 12	167.2	166.3	168.3
Apr 13	168.1	166.7	169.4
Apr 14	168.6	167.3	169.6
Apr 15	169.1	167.7	171.3
Apr 16	170.3	169.1	171.6
Apr 17	170.9	169.5	172.0
Apr 18	171.6	170.1	173.1
Apr 19	172.1	171.5	172.7
Apr 20	172.2	171.3	173.2
Apr 21	171.2	169.4	172.1
Apr 22	170.0	169.4	170.9
Apr 23	169.9	168.7	171.3
Apr 24	169.9	169.5	170.4
Apr 25	169.8	168.9	170.6
Apr 26	168.5	166.5	169.3
Apr 27	167.2	165.7	168.6
Apr 28	168.1	166.8	169.7
Apr 29	169.0	167.4	170.4
Apr 30	169.9	169.0	171.2
Summary	**168.6**	**108.1**	**179.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 62

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	87.0	77.6	100.4
Apr 2	93.5	85.7	101.5
Apr 3	101.0	97.4	106.0
Apr 4	102.8	99.1	107.6
Apr 5	103.4	98.7	111.0
Apr 6	98.0	95.0	101.6
Apr 7	91.8	83.8	98.0
Apr 8	79.8	41.2	92.3
Apr 9	68.8	30.9	95.9
Apr 10	81.9	74.6	91.3
Apr 11	77.9	74.1	81.5
Apr 12	75.5	70.4	86.7
Apr 13	79.8	69.2	91.3
Apr 14	86.8	75.8	98.7
Apr 15	82.1	75.8	88.3
Apr 16	79.1	70.5	91.2
Apr 17	82.3	69.0	93.7
Apr 18	87.1	75.4	100.4
Apr 19	88.2	79.2	98.7
Apr 20	90.5	79.9	102.8
Apr 21	94.8	81.1	111.3
Apr 22	104.1	102.3	105.8
Apr 23	103.2	101.0	106.6
Apr 24	101.8	100.2	104.1
Apr 25	101.1	98.1	104.3
Apr 26	99.9	95.7	103.7
Apr 27	98.5	95.6	102.4
Apr 28	100.8	97.8	104.6
Apr 29	100.6	96.9	104.3
Apr 30	101.2	99.0	104.9
Summary	**91.4**	**68.8**	**104.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 63

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	70.1	58.1	90.0
Apr 2	79.3	65.8	92.4
Apr 3	87.6	81.4	96.7
Apr 4	90.0	81.5	100.6
Apr 5	90.0	80.3	101.4
Apr 6	81.2	76.1	86.8
Apr 7	71.9	62.4	78.5
Apr 8	61.9	40.1	75.2
Apr 9	59.6	29.4	86.4
Apr 10	67.6	61.7	80.9
Apr 11	61.8	56.0	66.6
Apr 12	58.8	52.4	73.2
Apr 13	63.7	43.7	83.5
Apr 14	75.7	58.6	92.6
Apr 15	69.8	62.0	78.3
Apr 16	65.8	52.9	81.6
Apr 17	68.8	48.6	87.5
Apr 18	76.8	60.0	94.2
Apr 19	79.2	65.2	93.8
Apr 20	81.8	67.5	97.9
Apr 21	82.1	67.7	99.3
Apr 22	85.9	80.8	95.0
Apr 23	88.3	79.3	100.6
Apr 24	87.1	82.1	94.6
Apr 25	86.2	77.4	96.7
Apr 26	84.0	75.1	95.9
Apr 27	80.3	70.5	93.3
Apr 28	86.5	76.2	98.9
Apr 29	86.3	73.5	98.8
Apr 30	88.3	82.1	99.8
Summary	**77.2**	**58.8**	**90.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 64

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	105.8	97.6	114.2
Apr 2	110.8	105.5	115.6
Apr 3	116.3	112.6	119.1
Apr 4	118.1	114.8	122.6
Apr 5	118.4	115.1	122.4
Apr 6	113.0	108.0	117.9
Apr 7	108.1	102.5	113.9
Apr 8	95.9	40.1	116.9
Apr 9	95.1	29.3	124.7
Apr 10	117.3	109.2	121.7
Apr 11	111.8	106.6	118.3
Apr 12	110.0	105.7	115.2
Apr 13	114.1	107.5	119.7
Apr 14	117.0	111.4	123.2
Apr 15	110.6	106.7	116.8
Apr 16	110.1	104.3	116.8
Apr 17	114.6	102.9	122.0
Apr 18	116.3	108.4	123.5
Apr 19	116.2	111.5	122.6
Apr 20	117.6	111.0	126.4
Apr 21	117.6	112.3	125.1
Apr 22	120.2	118.4	124.6
Apr 23	120.9	116.2	127.1
Apr 24	120.8	117.8	123.8
Apr 25	119.6	113.4	124.0
Apr 26	116.0	109.8	121.3
Apr 27	115.2	109.3	122.0
Apr 28	120.0	115.7	125.5
Apr 29	119.8	114.6	124.7
Apr 30	121.0	115.9	127.4
Summary	**114.3**	**95.1**	**121.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 65

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	137.9	135.9	140.2
Apr 2	137.4	129.4	139.2
Apr 3	139.6	138.3	140.6
Apr 4	140.4	139.1	141.6
Apr 5	140.8	139.9	142.6
Apr 6	139.9	138.9	141.3
Apr 7	138.7	137.1	140.8
Apr 8	129.9	77.6	138.1
Apr 9	112.9	32.3	141.8
Apr 10	138.6	134.2	140.2
Apr 11	137.0	134.2	139.3
Apr 12	134.2	131.9	136.2
Apr 13	131.9	128.7	134.4
Apr 14	133.9	128.8	138.2
Apr 15	129.3	124.7	134.2
Apr 16	128.4	124.3	132.6
Apr 17	134.4	127.6	140.1
Apr 18	139.8	135.9	143.9
Apr 19	138.3	136.8	140.7
Apr 20	136.4	133.2	139.3
Apr 21	139.1	133.6	144.2
Apr 22	140.8	140.1	141.7
Apr 23	140.2	138.0	142.0
Apr 24	136.8	130.2	140.3
Apr 25	137.6	134.5	140.8
Apr 26	138.2	133.9	139.9
Apr 27	133.8	132.3	135.7
Apr 28	137.8	132.7	142.1
Apr 29	139.9	137.5	141.9
Apr 30	138.7	135.5	141.0
Summary	**136.1**	**112.9**	**140.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 66

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	117.9	105.4	130.4
Apr 2	119.2	112.5	125.0
Apr 3	125.5	117.5	130.0
Apr 4	129.1	124.5	134.6
Apr 5	126.8	122.8	131.2
Apr 6	115.8	96.9	127.5
Apr 7	115.7	108.2	124.2
Apr 8	115.9	66.9	133.5
Apr 9	111.1	48.1	142.7
Apr 10	133.4	120.3	139.1
Apr 11	127.7	116.5	136.4
Apr 12	125.7	116.2	130.9
Apr 13	128.2	119.8	135.5
Apr 14	131.9	127.1	139.4
Apr 15	114.7	102.9	134.3
Apr 16	116.8	105.5	125.2
Apr 17	120.8	100.6	133.2
Apr 18	122.5	110.4	135.4
Apr 19	109.8	96.8	118.8
Apr 20	115.1	99.6	130.8
Apr 21	118.5	106.2	132.2
Apr 22	124.1	115.1	128.6
Apr 23	125.6	111.5	136.8
Apr 24	124.9	119.1	130.4
Apr 25	122.2	101.8	128.7
Apr 26	121.1	103.7	129.6
Apr 27	123.1	115.0	127.5
Apr 28	130.2	123.3	135.5
Apr 29	131.4	94.5	149.4
Apr 30	154.3	124.0	170.7
Summary	**123.3**	**109.8**	**154.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 67

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	113.9	97.4	127.6
Apr 2	124.4	117.3	129.5
Apr 3	131.2	126.9	134.2
Apr 4	134.9	131.4	138.9
Apr 5	135.9	132.2	141.0
Apr 6	132.4	128.7	136.7
Apr 7	107.9	81.5	134.6
Apr 8	112.2	97.4	118.1
Apr 9	119.6	103.3	130.3
Apr 10	122.6	114.4	127.6
Apr 11	108.9	82.1	125.2
Apr 12	114.8	106.9	122.9
Apr 13	121.6	113.9	127.4
Apr 14	127.3	120.4	134.3
Apr 15	118.6	113.0	129.9
Apr 16	122.9	111.5	129.9
Apr 17	127.4	115.1	135.9
Apr 18	132.1	123.4	140.6
Apr 19	134.8	128.9	139.1
Apr 20	137.6	129.9	145.3
Apr 21	135.9	130.1	141.2
Apr 22	135.3	133.2	139.5
Apr 23	134.4	127.2	143.1
Apr 24	134.0	131.2	138.4
Apr 25	134.3	120.3	140.0
Apr 26	120.5	98.1	130.4
Apr 27	123.1	113.1	133.3
Apr 28	130.3	121.3	139.8
Apr 29	132.4	124.3	139.5
Apr 30	135.7	131.7	141.5
Summary	**126.6**	**107.9**	**137.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 68

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	139.3	137.0	144.1
Apr 2	138.9	136.0	144.9
Apr 3	138.6	136.6	144.4
Apr 4	139.0	136.1	145.5
Apr 5	137.3	136.1	138.9
Apr 6	135.4	132.1	137.2
Apr 7	141.6	135.0	156.4
Apr 8	140.6	118.6	153.2
Apr 9	141.7	115.1	154.4
Apr 10	144.2	139.7	155.2
Apr 11	144.5	139.2	158.0
Apr 12	140.0	138.5	142.7
Apr 13	138.2	137.1	139.2
Apr 14	139.1	136.8	146.0
Apr 15	137.8	127.2	146.4
Apr 16	141.2	138.0	149.0
Apr 17	142.3	134.0	149.9
Apr 18	140.6	138.0	143.5
Apr 19	138.5	137.2	139.8
Apr 20	139.1	136.5	141.8
Apr 21	140.0	137.5	144.8
Apr 22	140.0	138.7	144.0
Apr 23	138.9	128.5	142.2
Apr 24	139.8	137.8	142.9
Apr 25	139.2	136.2	141.6
Apr 26	138.1	135.9	140.1
Apr 27	137.2	136.4	137.8
Apr 28	137.9	126.0	141.9
Apr 29	137.8	135.5	139.9
Apr 30	138.7	136.4	141.0
Summary	**139.5**	**135.4**	**144.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 69

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	101.6	98.9	104.9
Apr 2	104.7	102.1	107.3
Apr 3	107.6	106.1	109.8
Apr 4	108.8	107.6	110.9
Apr 5	109.1	107.7	111.4
Apr 6	108.1	107.4	108.6
Apr 7	107.5	106.7	108.5
Apr 8	98.0	36.7	109.2
Apr 9	82.8	29.9	107.7
Apr 10	105.9	104.7	107.4
Apr 11	106.0	105.1	106.8
Apr 12	106.4	105.3	108.0
Apr 13	107.8	105.8	110.4
Apr 14	109.1	107.0	111.5
Apr 15	108.5	107.4	110.0
Apr 16	108.4	106.5	111.1
Apr 17	109.4	107.3	111.4
Apr 18	110.3	108.4	113.0
Apr 19	110.5	108.8	113.0
Apr 20	111.1	109.2	113.7
Apr 21	108.9	102.0	113.1
Apr 22	103.5	102.0	107.2
Apr 23	104.0	101.2	109.6
Apr 24	103.0	101.3	106.9
Apr 25	103.0	99.8	107.0
Apr 26	102.1	98.1	107.4
Apr 27	100.3	96.9	105.4
Apr 28	102.9	98.1	108.6
Apr 29	103.0	98.4	108.6
Apr 30	102.7	100.2	108.1
Summary	**105.2**	**82.8**	**111.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 70

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	54.6	43.2	76.6
Apr 2	65.2	45.1	87.1
Apr 3	72.3	60.8	90.4
Apr 4	74.0	59.4	90.7
Apr 5	74.8	58.9	97.4
Apr 6	65.3	60.1	71.5
Apr 7	58.2	50.7	64.0
Apr 8	51.1	34.6	66.7
Apr 9	50.9	29.8	74.4
Apr 10	51.9	46.2	62.7
Apr 11	50.1	46.4	55.0
Apr 12	47.7	41.5	62.5
Apr 13	53.2	37.0	74.9
Apr 14	63.6	45.5	84.6
Apr 15	60.5	50.7	71.5
Apr 16	57.5	43.6	76.0
Apr 17	58.7	41.1	80.2
Apr 18	66.3	47.9	89.5
Apr 19	68.5	54.0	89.4
Apr 20	72.7	56.3	95.5
Apr 21	70.8	56.5	91.9
Apr 22	67.4	60.7	79.0
Apr 23	71.7	57.6	92.9
Apr 24	68.7	60.7	83.8
Apr 25	69.6	61.5	89.1
Apr 26	68.0	59.9	84.0
Apr 27	64.6	51.1	83.9
Apr 28	70.4	54.3	92.4
Apr 29	71.2	53.7	93.8
Apr 30	74.6	65.3	89.6
Summary	**63.8**	**47.7**	**74.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 71

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	131.8	129.0	135.1
Apr 2	133.3	132.2	134.6
Apr 3	134.9	133.8	135.8
Apr 4	135.7	134.0	137.1
Apr 5	135.7	135.1	137.2
Apr 6	134.4	132.8	135.5
Apr 7	132.5	130.8	135.6
Apr 8	123.6	71.3	133.2
Apr 9	114.5	63.3	134.9
Apr 10	133.7	130.2	134.8
Apr 11	131.9	129.6	134.6
Apr 12	131.9	130.0	133.9
Apr 13	133.8	132.6	134.9
Apr 14	134.6	133.8	135.7
Apr 15	133.1	131.9	134.7
Apr 16	133.1	131.5	134.7
Apr 17	134.4	132.5	135.8
Apr 18	134.7	133.5	136.2
Apr 19	134.5	133.8	135.3
Apr 20	135.2	134.1	137.4
Apr 21	135.1	134.2	137.1
Apr 22	135.5	133.8	136.2
Apr 23	135.9	134.9	138.1
Apr 24	135.6	134.2	136.3
Apr 25	135.5	132.7	136.6
Apr 26	134.6	132.4	136.8
Apr 27	134.7	133.3	136.3
Apr 28	135.9	134.2	137.6
Apr 29	136.0	134.9	137.1
Apr 30	136.1	134.9	137.7
Summary	**133.4**	**114.5**	**136.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 72

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	129.9	125.2	135.6
Apr 2	132.9	131.1	134.8
Apr 3	135.4	134.1	136.7
Apr 4	136.4	135.1	137.9
Apr 5	136.7	135.9	138.5
Apr 6	134.8	130.0	136.7
Apr 7	131.7	128.7	136.2
Apr 8	124.9	92.6	132.1
Apr 9	124.7	102.6	135.1
Apr 10	133.2	129.0	134.9
Apr 11	130.8	127.2	134.3
Apr 12	130.1	127.2	132.2
Apr 13	132.5	131.1	134.2
Apr 14	133.7	132.2	135.7
Apr 15	130.4	128.3	133.2
Apr 16	130.4	128.1	132.6
Apr 17	132.5	129.6	135.2
Apr 18	133.2	131.0	135.0
Apr 19	133.2	132.2	134.5
Apr 20	134.2	132.1	137.7
Apr 21	133.8	131.5	135.5
Apr 22	133.6	132.5	135.3
Apr 23	134.2	132.5	137.6
Apr 24	134.4	133.0	135.4
Apr 25	134.3	132.8	135.5
Apr 26	132.5	128.3	135.3
Apr 27	131.9	128.7	133.7
Apr 28	134.4	132.8	136.7
Apr 29	134.5	132.0	136.1
Apr 30	134.9	132.0	137.6
Summary	**132.7**	**124.7**	**136.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 73

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	104.5	96.0	106.9
Apr 2	105.7	104.6	107.3
Apr 3	106.5	105.9	107.7
Apr 4	107.0	106.1	108.3
Apr 5	107.3	106.3	109.0
Apr 6	106.7	106.1	107.1
Apr 7	106.4	105.8	106.8
Apr 8	97.9	43.4	107.4
Apr 9	87.2	34.3	107.7
Apr 10	105.8	105.0	107.3
Apr 11	106.5	105.8	106.9
Apr 12	107.3	106.4	108.7
Apr 13	108.6	107.3	110.0
Apr 14	110.0	108.6	111.7
Apr 15	109.7	109.0	110.5
Apr 16	109.9	108.7	111.5
Apr 17	111.0	109.4	112.7
Apr 18	111.6	110.3	113.7
Apr 19	111.9	110.9	113.2
Apr 20	112.6	111.4	114.6
Apr 21	111.5	109.0	113.5
Apr 22	110.0	109.3	111.4
Apr 23	110.6	109.4	112.5
Apr 24	110.3	109.8	111.4
Apr 25	110.1	108.7	111.6
Apr 26	109.4	107.9	111.1
Apr 27	109.1	107.9	110.9
Apr 28	109.9	108.4	111.7
Apr 29	110.0	108.7	111.6
Apr 30	110.5	109.3	112.6
Summary	**107.8**	**87.2**	**112.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 74

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	122.0	115.2	129.3
Apr 2	123.7	120.9	125.4
Apr 3	125.1	123.1	126.9
Apr 4	125.8	124.1	128.6
Apr 5	127.2	125.0	131.5
Apr 6	124.1	120.5	127.4
Apr 7	122.3	115.8	127.8
Apr 8	105.8	41.9	121.0
Apr 9	96.3	31.8	124.6
Apr 10	119.6	109.4	123.9
Apr 11	116.4	109.9	122.3
Apr 12	113.2	107.9	118.6
Apr 13	118.1	114.1	122.1
Apr 14	121.4	118.6	125.2
Apr 15	115.6	112.7	121.5
Apr 16	115.1	110.0	120.9
Apr 17	119.0	113.1	123.6
Apr 18	120.5	115.2	125.6
Apr 19	121.0	118.8	123.0
Apr 20	122.6	118.3	129.3
Apr 21	121.9	116.1	127.0
Apr 22	120.0	118.2	122.3
Apr 23	120.6	116.7	128.1
Apr 24	120.3	116.2	122.9
Apr 25	120.8	110.7	124.7
Apr 26	117.7	109.0	124.1
Apr 27	116.8	111.6	121.8
Apr 28	121.3	116.3	127.2
Apr 29	121.7	117.0	126.3
Apr 30	123.3	119.5	129.5
Summary	**119.3**	**96.3**	**127.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 75

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	118.2	113.5	123.1
Apr 2	123.1	118.2	128.9
Apr 3	127.8	126.7	129.0
Apr 4	128.3	127.1	129.6
Apr 5	128.7	127.0	130.0
Apr 6	127.7	126.7	129.4
Apr 7	127.1	125.7	129.3
Apr 8	121.4	84.9	127.1
Apr 9	109.3	54.3	128.6
Apr 10	127.7	126.1	128.8
Apr 11	127.0	125.0	128.4
Apr 12	126.6	125.4	128.1
Apr 13	127.7	126.4	128.9
Apr 14	128.5	127.0	129.7
Apr 15	126.6	125.5	128.9
Apr 16	126.8	125.8	128.4
Apr 17	128.0	126.4	129.5
Apr 18	128.6	127.1	129.7
Apr 19	128.6	127.5	129.3
Apr 20	128.9	127.4	130.2
Apr 21	128.7	127.5	129.6
Apr 22	128.3	127.2	129.0
Apr 23	128.3	127.3	129.6
Apr 24	128.3	127.7	128.9
Apr 25	128.2	126.7	129.1
Apr 26	127.4	125.5	128.7
Apr 27	127.1	125.9	128.4
Apr 28	127.9	126.3	129.3
Apr 29	128.2	127.1	129.4
Apr 30	128.4	126.9	129.4
Summary	**126.6**	**109.3**	**128.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 76

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	126.8	126.3	127.3
Apr 2	127.0	126.7	127.4
Apr 3	127.2	127.0	127.5
Apr 4	127.3	127.0	127.5
Apr 5	127.3	127.0	127.7
Apr 6	127.0	126.7	127.3
Apr 7	126.8	126.5	127.0
Apr 8	123.4	99.8	127.2
Apr 9	120.5	102.5	127.6
Apr 10	127.1	126.7	127.6
Apr 11	127.4	127.1	127.6
Apr 12	127.9	127.6	128.2
Apr 13	128.3	127.9	128.7
Apr 14	128.7	128.3	129.1
Apr 15	128.5	128.4	128.7
Apr 16	128.7	128.3	129.1
Apr 17	129.0	128.6	129.6
Apr 18	129.1	128.8	129.7
Apr 19	129.2	128.8	129.5
Apr 20	129.3	129.0	130.0
Apr 21	128.9	128.5	129.3
Apr 22	128.7	128.4	129.0
Apr 23	128.7	128.3	129.3
Apr 24	128.6	128.4	128.9
Apr 25	128.5	128.1	128.8
Apr 26	128.3	128.0	128.7
Apr 27	128.4	128.0	128.9
Apr 28	128.7	128.4	129.2
Apr 29	128.7	128.3	129.0
Apr 30	128.6	128.3	129.0
Summary	**127.8**	**120.5**	**129.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 77

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	54.6	41.3	76.7
Apr 2	66.6	48.5	85.2
Apr 3	76.4	65.0	90.0
Apr 4	78.6	63.0	95.1
Apr 5	78.7	61.3	98.3
Apr 6	66.7	59.8	74.3
Apr 7	55.2	44.8	62.8
Apr 8	48.9	38.6	62.5
Apr 9	53.3	31.6	79.5
Apr 10	51.3	44.7	66.7
Apr 11	47.6	43.4	53.0
Apr 12	46.5	39.9	64.1
Apr 13	54.3	33.6	76.0
Apr 14	67.3	45.1	90.6
Apr 15	62.2	53.4	70.9
Apr 16	60.2	45.0	78.4
Apr 17	66.0	42.7	86.2
Apr 18	74.5	53.1	97.7
Apr 19	76.5	60.2	94.1
Apr 20	79.7	61.4	100.9
Apr 21	97.2	61.5	145.9
Apr 22	153.5	147.7	158.2
Apr 23	157.9	154.6	160.9
Apr 24	160.3	157.3	162.3
Apr 25	160.4	156.8	162.3
Apr 26	158.3	153.4	160.6
Apr 27	162.9	158.3	166.0
Apr 28	165.3	162.1	166.7
Apr 29	165.9	163.2	168.9
Apr 30	166.5	165.3	168.2
Summary	**93.8**	**46.5**	**166.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 78

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	104.8	98.9	113.0
Apr 2	108.5	104.4	113.5
Apr 3	110.6	108.5	114.6
Apr 4	111.5	108.2	114.7
Apr 5	111.3	108.0	116.3
Apr 6	108.0	105.8	110.5
Apr 7	106.3	103.0	111.0
Apr 8	101.1	76.7	110.7
Apr 9	103.6	86.5	113.9
Apr 10	107.8	105.8	111.3
Apr 11	105.4	102.1	108.5
Apr 12	104.3	101.7	107.9
Apr 13	105.8	101.7	110.6
Apr 14	108.9	104.5	114.4
Apr 15	105.7	102.8	108.9
Apr 16	105.6	101.4	111.3
Apr 17	108.4	102.5	114.2
Apr 18	109.6	104.8	114.4
Apr 19	109.4	106.9	112.9
Apr 20	110.4	106.8	116.1
Apr 21	110.2	106.6	115.5
Apr 22	109.4	107.3	113.2
Apr 23	110.5	107.4	114.8
Apr 24	110.4	107.9	113.0
Apr 25	109.5	106.2	113.3
Apr 26	107.7	105.4	113.4
Apr 27	108.1	104.3	113.1
Apr 28	109.7	106.1	114.5
Apr 29	109.6	105.8	114.0
Apr 30	110.8	107.8	114.9
Summary	**108.1**	**101.1**	**111.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 79

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	142.0	133.2	148.7
Apr 2	142.8	130.2	145.4
Apr 3	146.7	143.9	148.9
Apr 4	148.6	146.0	149.9
Apr 5	149.0	148.0	150.8
Apr 6	146.7	141.3	149.6
Apr 7	145.2	140.9	148.8
Apr 8	131.4	45.8	147.2
Apr 9	117.2	33.5	150.6
Apr 10	148.4	144.4	149.5
Apr 11	146.4	141.6	149.3
Apr 12	145.9	142.6	148.6
Apr 13	148.2	146.3	149.9
Apr 14	149.0	147.4	150.2
Apr 15	145.1	135.8	148.9
Apr 16	146.5	142.7	148.6
Apr 17	148.8	145.7	150.6
Apr 18	149.0	146.4	150.6
Apr 19	149.3	147.5	150.4
Apr 20	149.9	147.1	152.4
Apr 21	149.3	147.0	151.6
Apr 22	149.6	148.1	150.4
Apr 23	149.4	146.7	152.0
Apr 24	149.9	146.1	151.2
Apr 25	149.6	146.8	151.7
Apr 26	148.1	144.8	150.1
Apr 27	147.8	144.4	150.0
Apr 28	150.0	147.8	151.8
Apr 29	149.7	147.8	151.7
Apr 30	150.2	147.8	152.7
Summary	**146.3**	**117.2**	**150.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 80

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	53.7	41.2	74.4
Apr 2	65.7	46.2	87.2
Apr 3	75.9	63.6	93.4
Apr 4	78.4	61.2	96.8
Apr 5	76.9	59.9	99.7
Apr 6	65.9	59.7	73.1
Apr 7	55.2	45.1	63.5
Apr 8	47.1	36.5	61.9
Apr 9	50.0	29.8	74.5
Apr 10	49.1	42.0	63.5
Apr 11	46.1	41.8	52.7
Apr 12	43.7	35.4	59.0
Apr 13	51.5	29.8	75.7
Apr 14	65.9	39.8	89.7
Apr 15	59.3	48.7	69.8
Apr 16	55.4	37.3	74.4
Apr 17	60.2	34.6	84.5
Apr 18	69.6	45.7	96.1
Apr 19	71.2	52.0	94.2
Apr 20	76.7	55.3	102.2
Apr 21	72.7	54.6	96.5
Apr 22	67.2	58.2	83.2
Apr 23	72.8	55.5	96.8
Apr 24	69.3	59.5	89.1
Apr 25	69.9	60.9	92.8
Apr 26	68.1	54.4	84.3
Apr 27	61.6	45.6	82.3
Apr 28	72.6	51.2	94.6
Apr 29	73.7	50.1	93.4
Apr 30	75.1	64.7	93.1
Summary	**64.0**	**43.7**	**78.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 81

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	164.6	161.8	166.6
Apr 2	164.5	159.0	166.2
Apr 3	165.3	163.9	166.4
Apr 4	166.3	164.9	167.1
Apr 5	166.6	165.3	167.2
Apr 6	165.5	163.8	166.9
Apr 7	164.5	162.5	166.5
Apr 8	150.5	58.8	165.2
Apr 9	129.5	38.0	176.3
Apr 10	166.9	163.7	167.9
Apr 11	165.1	162.2	167.2
Apr 12	164.6	162.8	166.6
Apr 13	166.0	164.4	167.5
Apr 14	166.4	165.4	167.3
Apr 15	164.4	162.3	166.4
Apr 16	165.5	163.7	167.5
Apr 17	167.4	165.9	168.9
Apr 18	167.8	166.2	169.1
Apr 19	168.2	166.7	169.2
Apr 20	168.8	166.7	169.9
Apr 21	168.3	166.3	169.4
Apr 22	169.0	167.5	169.7
Apr 23	168.6	166.3	169.8
Apr 24	169.5	168.3	170.2
Apr 25	169.0	165.8	170.0
Apr 26	167.6	164.2	169.2
Apr 27	167.3	164.6	169.6
Apr 28	169.1	167.8	170.1
Apr 29	169.0	167.7	170.4
Apr 30	169.6	168.5	171.0
Summary	**165.2**	**129.5**	**169.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 82

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	170.8	166.9	174.5
Apr 2	172.4	170.8	173.9
Apr 3	174.1	172.3	175.6
Apr 4	174.4	172.3	175.6
Apr 5	174.0	171.6	175.2
Apr 6	173.6	170.8	175.5
Apr 7	171.4	168.6	175.4
Apr 8	169.3	161.3	172.0
Apr 9	170.5	163.7	174.7
Apr 10	173.7	169.3	174.7
Apr 11	170.7	167.6	175.3
Apr 12	169.7	167.5	172.5
Apr 13	171.9	169.7	173.8
Apr 14	173.4	171.8	174.4
Apr 15	170.3	165.7	174.5
Apr 16	170.6	166.6	173.8
Apr 17	173.5	171.3	174.7
Apr 18	173.6	171.4	174.6
Apr 19	173.2	170.9	174.6
Apr 20	174.1	171.7	175.7
Apr 21	173.7	171.3	174.9
Apr 22	174.0	172.6	174.9
Apr 23	173.8	171.8	175.7
Apr 24	174.3	172.9	175.0
Apr 25	173.8	168.6	175.3
Apr 26	170.2	167.9	173.1
Apr 27	171.5	169.4	173.6
Apr 28	172.9	171.8	174.1
Apr 29	172.7	170.8	174.2
Apr 30	173.1	171.4	174.6
Summary	**172.5**	**169.3**	**174.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 83

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	128.0	114.2	146.1
Apr 2	137.1	121.6	149.0
Apr 3	135.2	125.0	148.5
Apr 4	138.4	129.8	149.2
Apr 5	143.2	134.8	153.7
Apr 6	138.7	110.4	152.0
Apr 7	118.9	92.0	152.4
Apr 8	121.6	103.1	149.0
Apr 9	138.3	119.8	164.5
Apr 10	144.5	128.5	167.5
Apr 11	140.8	129.3	152.8
Apr 12	140.2	133.3	149.0
Apr 13	145.3	138.9	152.4
Apr 14	147.3	144.6	149.9
Apr 15	143.0	137.9	149.4
Apr 16	147.4	141.8	153.4
Apr 17	165.6	144.0	178.9
Apr 18	175.1	173.5	176.1
Apr 19	175.4	173.8	176.3
Apr 20	175.8	173.8	176.9
Apr 21	175.1	173.4	176.9
Apr 22	174.8	174.0	175.6
Apr 23	174.7	173.4	176.2
Apr 24	174.8	172.5	175.8
Apr 25	174.8	173.5	175.8
Apr 26	173.5	171.5	175.6
Apr 27	173.6	171.6	175.4
Apr 28	174.7	173.4	175.9
Apr 29	174.5	172.5	175.8
Apr 30	175.1	173.4	176.4
Summary	**154.8**	**118.9**	**175.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 84

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	176.8	176.4	177.4
Apr 2	176.6	176.3	177.1
Apr 3	176.4	176.2	176.8
Apr 4	176.3	176.0	176.5
Apr 5	176.2	175.8	176.7
Apr 6	175.9	175.6	176.1
Apr 7	175.2	174.6	175.9
Apr 8	173.0	164.4	174.9
Apr 9	174.1	169.1	178.1
Apr 10	174.5	173.9	174.7
Apr 11	174.0	173.5	174.4
Apr 12	173.5	173.2	173.7
Apr 13	173.5	173.1	173.9
Apr 14	173.6	173.2	174.1
Apr 15	173.2	172.9	173.4
Apr 16	173.2	172.9	173.7
Apr 17	173.5	172.9	173.9
Apr 18	173.6	173.0	174.2
Apr 19	173.6	173.2	174.0
Apr 20	173.7	173.1	174.3
Apr 21	173.5	173.1	173.8
Apr 22	173.2	173.0	173.6
Apr 23	173.2	172.7	173.8
Apr 24	173.0	172.8	173.4
Apr 25	173.0	172.5	173.4
Apr 26	172.5	171.9	172.9
Apr 27	172.2	171.7	172.9
Apr 28	172.4	172.0	173.2
Apr 29	172.5	171.8	173.0
Apr 30	172.6	172.3	173.1
Summary	**173.9**	**172.2**	**176.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 85

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	141.6	113.6	159.2
Apr 2	114.4	98.7	129.1
Apr 3	119.6	106.7	135.3
Apr 4	124.7	108.0	139.7
Apr 5	141.6	127.2	163.6
Apr 6	153.3	148.7	155.9
Apr 7	155.0	152.0	157.5
Apr 8	140.5	43.8	160.7
Apr 9	94.8	36.4	124.5
Apr 10	114.1	109.1	128.1
Apr 11	107.5	99.6	115.7
Apr 12	101.9	95.1	119.6
Apr 13	122.9	92.0	156.6
Apr 14	157.2	154.6	160.8
Apr 15	151.3	147.5	155.1
Apr 16	149.8	147.4	152.2
Apr 17	152.0	148.8	155.0
Apr 18	154.9	150.8	159.3
Apr 19	154.5	152.2	156.8
Apr 20	153.0	151.0	156.2
Apr 21	152.9	150.9	156.0
Apr 22	153.2	152.4	154.7
Apr 23	153.3	151.8	156.8
Apr 24	153.2	152.1	155.8
Apr 25	147.5	96.6	153.8
Apr 26	98.4	89.1	106.9
Apr 27	93.1	85.4	107.9
Apr 28	100.2	89.9	120.3
Apr 29	102.6	92.0	119.2
Apr 30	108.3	100.0	119.6
Summary	**132.2**	**93.1**	**157.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 86

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	147.1	146.3	148.1
Apr 2	146.8	132.7	148.6
Apr 3	147.4	147.1	148.0
Apr 4	147.4	147.0	148.0
Apr 5	147.6	147.0	148.5
Apr 6	147.2	146.8	147.8
Apr 7	146.6	145.8	147.4
Apr 8	142.3	102.7	146.2
Apr 9	144.2	135.3	150.3
Apr 10	145.9	145.3	146.5
Apr 11	145.4	144.0	146.2
Apr 12	143.8	143.1	144.7
Apr 13	145.3	144.2	146.1
Apr 14	146.2	145.5	147.0
Apr 15	145.6	145.2	146.3
Apr 16	145.9	145.2	146.7
Apr 17	146.5	145.2	147.4
Apr 18	146.9	145.9	148.1
Apr 19	147.2	146.5	147.9
Apr 20	147.5	146.5	148.7
Apr 21	147.4	146.7	148.2
Apr 22	147.1	146.8	147.7
Apr 23	147.1	145.3	148.2
Apr 24	147.0	146.6	147.7
Apr 25	147.1	146.2	148.1
Apr 26	146.8	145.5	147.2
Apr 27	146.1	145.0	147.1
Apr 28	146.7	145.7	148.0
Apr 29	147.1	146.0	148.0
Apr 30	147.5	146.9	148.4
Summary	**146.4**	**142.3**	**147.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 87

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	146.3	129.9	156.0
Apr 2	148.9	141.6	154.5
Apr 3	151.8	145.5	156.4
Apr 4	155.1	149.6	159.8
Apr 5	153.3	148.6	156.8
Apr 6	147.6	132.8	155.3
Apr 7	139.4	125.1	153.0
Apr 8	132.1	122.5	143.7
Apr 9	138.9	133.1	146.1
Apr 10	139.1	121.9	144.1
Apr 11	128.3	107.1	141.8
Apr 12	121.7	108.9	137.0
Apr 13	133.8	127.6	141.8
Apr 14	136.0	125.6	142.9
Apr 15	120.5	109.1	135.3
Apr 16	125.5	113.6	138.0
Apr 17	135.7	124.5	143.6
Apr 18	137.1	130.0	146.6
Apr 19	138.5	132.9	144.8
Apr 20	140.1	129.9	148.0
Apr 21	135.0	125.1	143.8
Apr 22	136.4	131.6	139.2
Apr 23	135.4	123.9	146.1
Apr 24	135.4	130.6	139.6
Apr 25	133.2	118.4	140.7
Apr 26	123.5	107.0	131.2
Apr 27	123.9	111.7	134.6
Apr 28	131.2	121.3	139.0
Apr 29	131.5	124.1	140.6
Apr 30	132.1	128.4	141.5
Summary	**136.2**	**120.5**	**155.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 88

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	164.1	163.3	164.8
Apr 2	163.9	162.8	164.8
Apr 3	163.6	98.7	175.2
Apr 4	170.9	170.3	171.6
Apr 5	170.9	170.1	171.4
Apr 6	170.9	170.5	171.5
Apr 7	170.0	169.0	171.5
Apr 8	171.1	168.2	184.7
Apr 9	176.0	170.0	187.0
Apr 10	169.6	168.5	170.4
Apr 11	168.8	168.0	170.0
Apr 12	168.2	167.6	169.0
Apr 13	168.5	167.6	169.4
Apr 14	168.6	167.6	169.2
Apr 15	169.3	168.2	170.5
Apr 16	170.2	169.1	171.2
Apr 17	169.9	168.0	170.9
Apr 18	171.1	170.3	172.1
Apr 19	171.5	171.1	172.2
Apr 20	171.8	170.9	172.2
Apr 21	171.8	171.2	172.5
Apr 22	172.0	171.4	172.4
Apr 23	171.8	171.3	172.4
Apr 24	171.8	171.1	172.5
Apr 25	172.0	171.6	172.6
Apr 26	171.8	171.5	172.2
Apr 27	171.4	170.4	172.4
Apr 28	170.9	168.1	172.3
Apr 29	172.1	171.4	172.7
Apr 30	172.4	171.6	173.1
Summary	**170.2**	**163.6**	**176.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 89

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	167.4	159.7	175.3
Apr 2	170.0	168.0	172.7
Apr 3	171.8	169.0	173.7
Apr 4	173.6	170.3	175.6
Apr 5	174.1	172.4	176.8
Apr 6	170.7	165.2	174.6
Apr 7	169.1	165.4	174.0
Apr 8	162.9	148.2	168.1
Apr 9	166.9	155.6	174.4
Apr 10	169.1	158.8	172.8
Apr 11	164.7	156.6	170.6
Apr 12	163.0	157.4	168.2
Apr 13	166.4	161.0	170.5
Apr 14	169.5	166.4	174.0
Apr 15	162.5	157.6	170.1
Apr 16	163.0	156.5	167.4
Apr 17	167.8	160.3	172.8
Apr 18	169.3	165.0	174.4
Apr 19	169.6	167.8	171.6
Apr 20	172.0	168.3	176.7
Apr 21	171.7	167.9	175.8
Apr 22	171.8	169.0	173.7
Apr 23	171.7	165.4	176.3
Apr 24	170.2	167.5	171.7
Apr 25	169.1	160.7	172.2
Apr 26	165.8	161.4	169.8
Apr 27	167.0	162.1	173.7
Apr 28	167.9	111.8	176.2
Apr 29	172.8	168.2	176.8
Apr 30	174.8	171.8	179.5
Summary	**168.9**	**162.5**	**174.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 90

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	138.9	138.3	139.6
Apr 2	139.2	138.6	139.6
Apr 3	139.4	139.1	139.9
Apr 4	139.4	139.1	139.8
Apr 5	139.6	139.2	140.1
Apr 6	139.3	138.8	139.6
Apr 7	138.8	138.2	139.5
Apr 8	124.9	49.3	138.6
Apr 9	113.6	43.6	141.2
Apr 10	138.3	137.7	138.6
Apr 11	137.8	137.2	138.2
Apr 12	137.2	136.9	137.7
Apr 13	137.4	136.9	137.8
Apr 14	137.6	137.1	138.2
Apr 15	136.9	136.4	137.6
Apr 16	136.9	136.4	137.4
Apr 17	137.3	136.4	137.8
Apr 18	137.5	136.6	138.3
Apr 19	137.6	137.0	138.1
Apr 20	137.8	137.0	138.8
Apr 21	137.8	137.3	138.5
Apr 22	137.6	137.3	138.0
Apr 23	137.7	136.9	138.5
Apr 24	137.6	137.2	138.2
Apr 25	137.7	137.1	138.2
Apr 26	137.4	136.8	138.0
Apr 27	137.1	136.6	137.7
Apr 28	137.4	136.8	138.1
Apr 29	137.6	136.9	138.2
Apr 30	137.8	137.5	138.2
Summary	**136.7**	**113.6**	**139.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 91

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	154.4	150.1	156.9
Apr 2	154.9	152.7	156.4
Apr 3	155.8	153.7	157.2
Apr 4	157.1	155.6	158.6
Apr 5	157.1	155.7	158.1
Apr 6	155.5	145.4	158.1
Apr 7	154.1	150.9	157.6
Apr 8	150.4	130.4	154.6
Apr 9	153.9	148.9	158.8
Apr 10	154.3	151.2	155.6
Apr 11	152.8	147.8	155.2
Apr 12	151.6	148.6	154.1
Apr 13	153.5	152.1	155.5
Apr 14	154.5	153.5	156.0
Apr 15	151.4	146.9	155.8
Apr 16	153.7	150.5	157.1
Apr 17	156.2	153.4	158.0
Apr 18	156.8	155.0	158.7
Apr 19	157.6	155.9	159.4
Apr 20	158.2	156.2	159.8
Apr 21	157.2	152.9	159.1
Apr 22	157.2	154.8	158.2
Apr 23	156.8	154.4	158.2
Apr 24	156.9	155.5	157.9
Apr 25	156.3	151.3	157.6
Apr 26	154.5	151.2	156.6
Apr 27	154.3	151.5	156.5
Apr 28	155.6	153.5	157.9
Apr 29	155.9	153.9	158.0
Apr 30	156.7	155.3	158.5
Summary	**155.2**	**150.4**	**158.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 92

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	108.9	76.8	139.6
Apr 2	116.9	102.8	131.8
Apr 3	126.6	107.5	146.2
Apr 4	142.1	120.3	155.6
Apr 5	139.2	122.2	150.0
Apr 6	121.7	92.0	145.2
Apr 7	109.7	89.2	141.7
Apr 8	98.2	82.3	114.7
Apr 9	113.6	92.0	134.2
Apr 10	118.4	76.3	131.9
Apr 11	102.8	74.8	125.1
Apr 12	94.3	76.9	119.8
Apr 13	112.1	101.9	129.4
Apr 14	119.3	106.8	131.4
Apr 15	95.8	79.9	121.7
Apr 16	103.0	85.1	124.4
Apr 17	128.4	108.6	148.4
Apr 18	132.3	119.8	151.9
Apr 19	137.8	119.9	150.0
Apr 20	145.3	136.3	158.4
Apr 21	131.4	103.1	148.2
Apr 22	135.2	121.4	142.5
Apr 23	136.3	109.1	149.1
Apr 24	140.3	124.3	146.1
Apr 25	133.2	93.1	146.9
Apr 26	112.9	92.0	123.4
Apr 27	120.0	101.4	140.0
Apr 28	136.9	124.0	149.8
Apr 29	137.6	123.5	151.6
Apr 30	139.7	127.8	156.8
Summary	**123.0**	**94.3**	**145.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 93

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	54.5	41.7	79.8
Apr 2	65.9	45.9	89.7
Apr 3	75.0	62.0	95.0
Apr 4	76.3	59.9	95.1
Apr 5	76.4	59.5	102.1
Apr 6	67.0	59.9	74.8
Apr 7	55.6	45.1	63.2
Apr 8	47.5	37.5	65.0
Apr 9	50.9	29.9	80.5
Apr 10	50.2	42.8	67.6
Apr 11	46.6	42.4	51.1
Apr 12	44.6	36.1	63.4
Apr 13	50.3	30.1	80.1
Apr 14	64.7	40.8	92.9
Apr 15	60.6	49.4	72.1
Apr 16	55.0	37.9	80.1
Apr 17	98.2	35.1	189.7
Apr 18	149.4	84.2	193.1
Apr 19	107.5	63.9	195.1
Apr 20	76.2	56.0	106.3
Apr 21	85.2	56.1	188.1
Apr 22	135.8	63.4	196.6
Apr 23	176.1	73.1	198.3
Apr 24	195.4	170.2	198.1
Apr 25	186.2	119.1	198.8
Apr 26	197.7	193.3	198.8
Apr 27	135.4	75.1	194.1
Apr 28	80.2	67.0	100.5
Apr 29	75.9	59.7	98.3
Apr 30	77.8	68.9	98.4
Summary	**90.6**	**44.6**	**197.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 94

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	152.4	137.1	169.4
Apr 2	150.1	140.4	165.3
Apr 3	134.8	128.2	143.0
Apr 4	144.8	123.4	167.0
Apr 5	159.6	137.8	170.4
Apr 6	126.8	120.2	137.6
Apr 7	123.9	110.3	147.9
Apr 8	128.1	100.7	148.2
Apr 9	138.4	111.8	158.1
Apr 10	95.5	80.2	108.3
Apr 11	89.2	67.9	118.2
Apr 12	97.3	73.5	123.8
Apr 13	68.9	59.9	79.3
Apr 14	81.4	58.3	105.6
Apr 15	114.8	105.9	121.5
Apr 16	101.9	79.4	127.4
Apr 17	76.7	66.4	88.5
Apr 18	75.1	61.3	95.9
Apr 19	75.4	65.0	91.9
Apr 20	79.1	67.1	99.4
Apr 21	83.9	66.1	106.4
Apr 22	126.8	109.2	136.6
Apr 23	143.5	136.7	150.6
Apr 24	150.4	147.5	152.9
Apr 25	154.5	152.7	156.2
Apr 26	155.6	153.5	157.9
Apr 27	156.1	154.3	157.7
Apr 28	154.0	152.0	156.5
Apr 29	152.0	145.4	156.5
Apr 30	153.3	151.5	156.8
Summary	**121.5**	**68.9**	**159.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 95

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	123.8	47.1	134.3
Apr 2	135.6	131.7	138.2
Apr 3	138.7	138.0	140.1
Apr 4	139.0	137.9	140.4
Apr 5	139.1	138.0	140.8
Apr 6	137.8	135.5	138.5
Apr 7	139.8	137.5	141.4
Apr 8	124.5	39.3	140.0
Apr 9	107.6	29.8	139.8
Apr 10	138.9	138.0	139.6
Apr 11	138.1	137.3	138.9
Apr 12	137.6	136.6	138.6
Apr 13	138.4	137.4	139.6
Apr 14	138.9	137.8	140.5
Apr 15	127.2	103.7	137.7
Apr 16	99.2	57.7	129.3
Apr 17	77.5	57.9	101.7
Apr 18	77.4	60.4	102.5
Apr 19	72.0	52.5	98.9
Apr 20	76.7	56.2	102.6
Apr 21	74.0	55.2	99.0
Apr 22	67.8	59.9	83.2
Apr 23	72.8	56.9	99.1
Apr 24	69.9	61.9	87.6
Apr 25	71.3	62.1	97.8
Apr 26	115.5	64.1	133.7
Apr 27	129.9	113.7	135.1
Apr 28	127.8	111.9	135.0
Apr 29	94.5	71.3	114.0
Apr 30	77.6	68.4	94.9
Summary	**110.3**	**67.8**	**139.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 96

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	131.7	127.8	135.3
Apr 2	132.6	129.9	134.6
Apr 3	133.3	131.4	134.8
Apr 4	134.5	133.3	135.8
Apr 5	134.0	132.8	136.4
Apr 6	131.7	126.0	134.1
Apr 7	129.5	126.4	133.7
Apr 8	119.2	65.3	129.4
Apr 9	113.3	66.5	140.3
Apr 10	127.1	123.1	128.6
Apr 11	124.4	120.5	126.8
Apr 12	123.9	121.2	125.2
Apr 13	123.8	122.5	126.4
Apr 14	123.4	121.7	125.5
Apr 15	118.7	111.8	124.0
Apr 16	120.4	116.7	122.6
Apr 17	122.4	117.0	126.1
Apr 18	124.0	120.5	127.1
Apr 19	124.9	121.7	126.9
Apr 20	126.6	123.3	130.1
Apr 21	126.5	123.8	129.7
Apr 22	126.4	124.9	127.8
Apr 23	126.7	123.4	129.5
Apr 24	127.2	126.0	129.2
Apr 25	127.1	123.3	129.9
Apr 26	125.7	122.2	128.3
Apr 27	125.9	123.5	127.7
Apr 28	127.7	125.2	130.8
Apr 29	127.9	122.9	130.4
Apr 30	129.1	127.0	131.7
Summary	**126.3**	**113.3**	**134.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 97

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	153.4	150.8	156.1
Apr 2	154.8	153.7	155.6
Apr 3	155.9	154.7	156.6
Apr 4	156.6	154.6	157.7
Apr 5	157.4	156.8	158.8
Apr 6	156.7	155.0	158.0
Apr 7	152.7	148.9	157.7
Apr 8	145.5	112.6	153.2
Apr 9	148.5	123.8	165.4
Apr 10	153.8	149.6	155.0
Apr 11	151.8	148.2	154.6
Apr 12	150.7	148.0	153.2
Apr 13	152.7	151.3	154.5
Apr 14	154.0	153.0	155.2
Apr 15	152.2	149.0	154.6
Apr 16	153.5	150.5	156.1
Apr 17	154.0	118.0	157.2
Apr 18	153.9	152.7	155.6
Apr 19	155.0	154.2	155.8
Apr 20	155.5	154.0	156.9
Apr 21	154.2	151.2	156.3
Apr 22	153.2	152.5	153.7
Apr 23	152.9	150.7	154.5
Apr 24	153.0	151.9	153.7
Apr 25	152.7	147.8	154.2
Apr 26	150.7	147.5	152.8
Apr 27	150.8	149.1	152.7
Apr 28	152.2	150.2	154.1
Apr 29	153.0	151.3	154.0
Apr 30	153.9	152.4	155.3
Summary	**153.2**	**145.5**	**157.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 98

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	58.1	42.2	84.1
Apr 2	66.9	46.8	91.7
Apr 3	75.1	61.5	93.9
Apr 4	75.6	60.2	95.4
Apr 5	76.6	59.3	100.7
Apr 6	65.8	59.8	73.2
Apr 7	57.2	46.2	70.8
Apr 8	49.3	37.0	63.8
Apr 9	52.6	29.9	76.1
Apr 10	53.9	43.0	72.4
Apr 11	50.6	43.0	59.7
Apr 12	45.2	39.0	61.2
Apr 13	51.3	31.6	76.0
Apr 14	64.2	41.7	88.5
Apr 15	61.3	50.7	69.5
Apr 16	57.0	38.1	79.0
Apr 17	61.2	35.9	86.6
Apr 18	66.7	46.3	95.4
Apr 19	70.1	52.4	93.6
Apr 20	75.3	55.7	103.6
Apr 21	71.3	55.0	95.0
Apr 22	71.5	60.8	87.0
Apr 23	78.1	66.1	95.6
Apr 24	72.0	60.6	87.3
Apr 25	73.9	60.8	91.5
Apr 26	76.6	61.1	88.0
Apr 27	63.3	46.8	86.7
Apr 28	72.7	52.8	95.4
Apr 29	78.9	68.0	93.9
Apr 30	77.2	65.4	94.2
Summary	**65.6**	**45.2**	**78.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 99

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	140.7	139.8	141.8
Apr 2	141.8	140.7	142.9
Apr 3	142.4	141.9	143.2
Apr 4	142.6	142.2	143.3
Apr 5	143.0	142.3	144.3
Apr 6	142.5	141.9	143.0
Apr 7	140.7	139.6	143.0
Apr 8	131.5	69.5	142.6
Apr 9	125.6	78.7	144.6
Apr 10	143.0	142.4	143.4
Apr 11	142.6	141.7	143.4
Apr 12	143.0	142.4	143.7
Apr 13	144.1	143.5	144.8
Apr 14	144.9	144.2	145.5
Apr 15	144.3	143.8	144.9
Apr 16	144.5	143.6	145.3
Apr 17	145.1	144.1	145.8
Apr 18	145.6	144.9	146.7
Apr 19	145.6	144.9	146.5
Apr 20	146.0	145.3	147.1
Apr 21	146.2	145.6	147.4
Apr 22	145.9	145.6	146.2
Apr 23	146.0	145.2	146.9
Apr 24	145.8	145.4	146.3
Apr 25	145.9	145.1	146.9
Apr 26	145.3	144.6	145.9
Apr 27	145.1	144.6	145.8
Apr 28	145.5	144.7	146.4
Apr 29	145.7	144.2	146.6
Apr 30	145.9	145.4	146.7
Summary	**143.2**	**125.6**	**146.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 100

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Apr 1	100.9	94.5	110.0
Apr 2	138.9	136.0	144.9
Apr 3	115.0	111.4	119.3
Apr 4	139.0	136.1	145.5
Apr 5	114.9	110.0	120.8
Apr 6	135.4	132.1	137.2
Apr 7	109.6	103.3	115.9
Apr 8	140.6	118.6	153.2
Apr 9	94.8	73.8	108.9
Apr 10	144.2	139.7	155.2
Apr 11	98.6	93.1	104.8
Apr 12	140.0	138.5	142.7
Apr 13	101.3	92.3	110.8
Apr 14	139.1	136.8	146.0
Apr 15	152.8	151.8	153.9
Apr 16	141.2	138.0	149.0
Apr 17	153.2	151.7	154.0
Apr 18	140.6	138.0	143.5
Apr 19	153.1	152.4	154.1
Apr 20	139.1	136.5	141.8
Apr 21	153.4	152.6	154.1
Apr 22	140.0	138.7	144.0
Apr 23	153.6	152.6	154.7
Apr 24	139.8	137.8	142.9
Apr 25	153.4	152.7	154.0
Apr 26	138.1	135.9	140.1
Apr 27	153.2	152.7	153.7
Apr 28	137.9	126.0	141.9
Apr 29	153.3	152.1	154.2
Apr 30	138.7	136.4	141.0
Summary	**131.2**	**94.8**	**153.6**

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-Apr	165.4	219.0	219.6	229.9	241.4	263.3
2-Apr	166.1	219.5	220.1	230.3	241.8	263.7
3-Apr	166.6	219.7	220.3	230.7	242.2	263.9
4-Apr	166.6	219.9	220.5	230.6	242.2	263.9
5-Apr	166.5	220.1	220.5	230.6	242.1	263.9
6-Apr	166.1	219.7	220.3	230.4	241.7	263.6
7-Apr	165.0	219.3	220.0	230.1	241.4	263.2
8-Apr	164.4	219.1	219.7	229.6	240.9	262.8
9-Apr	165.3	219.3	219.8	229.9	241.4	263.0
10-Apr	165.2	219.1	219.7	229.9	241.5	262.9
11-Apr	164.6	219.1	219.7	229.9	241.6	262.9
12-Apr	164.1	219.0	219.5	229.8	241.9	262.8
13-Apr	165.0	219.3	219.7	230.2	242.4	263.2
14-Apr	165.7	219.6	220.1	230.4	242.9	263.5
15-Apr	165.2	219.5	220.1	230.3	242.8	263.4
16-Apr	165.1	219.4	220.0	230.1	242.9	263.3
17-Apr	165.4	219.7	220.2	230.5	243.3	263.6
18-Apr	165.6	219.8	220.3	230.8	243.8	263.8
19-Apr	165.6	219.9	220.4	230.8	243.8	263.9
20-Apr	166.4	220.2	220.7	231.1	244.2	264.1
21-Apr	166.1	220.0	220.6	231.2	244.3	264.1
22-Apr	165.7	219.9	220.5	231.2	244.3	264.0
23-Apr	165.7	220.0	220.5	231.3	244.6	264.1
24-Apr	165.7	219.8	220.4	231.3	244.5	264.1
25-Apr	165.8	219.8	220.4	231.4	244.6	264.1
26-Apr	165.9	219.9	220.5	231.4	244.8	264.1
27-Apr	165.3	219.6	220.1	231.1	244.7	263.8
28-Apr	165.9	220.0	220.4	231.3	245.2	264.1
29-Apr	166.1	219.9	220.4	231.2	245.1	264.1
30-Apr	166.1	220.0	220.6	231.3	245.4	264.3
Average	**165.6**	**219.6**	**220.2**	**230.6**	**243.1**	**263.6**

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-Apr	165.9	233.2	233.1	*	*	*	*	*
2-Apr	168.0	233.4	233.2	*	*	*	*	*
3-Apr	170.0	233.5	233.3	*	*	*	*	*
4-Apr	*	233.5	233.3	*	*	*	*	*
5-Apr	*	233.6	233.4	*	*	*	*	*
6-Apr	*	233.5	233.2	*	*	*	*	*
7-Apr	*	233.2	233.0	*	*	*	*	*
8-Apr	*	233.1	232.9	*	*	*	*	*
9-Apr	*	233.3	233.1	*	*	*	*	*
10-Apr	*	233.1	232.9	*	*	*	*	*
11-Apr	*	233.1	232.8	*	*	*	*	*
12-Apr	*	233.0	232.9	*	*	*	*	*
13-Apr	*	233.3	233.2	*	*	*	*	*
14-Apr	*	233.5	233.3	*	*	*	*	*
15-Apr	*	233.5	233.2	*	*	*	*	*
16-Apr	*	233.5	233.3	*	*	*	*	*
17-Apr	*	233.7	233.5	*	*	*	*	*
18-Apr	*	233.9	233.6	*	*	*	*	*
19-Apr	*	233.8	233.6	*	*	*	*	*
20-Apr	*	234.0	233.8	*	*	*	*	*
21-Apr	*	233.9	233.7	*	*	*	*	*
22-Apr	*	233.9	233.6	*	*	*	*	*
23-Apr	*	233.9	233.7	*	*	*	*	*
24-Apr	*	233.8	233.6	*	*	*	*	*
25-Apr	*	233.8	233.5	*	*	*	*	*
26-Apr	*	233.8	233.5	*	*	*	*	*
27-Apr	*	233.6	233.4	*	*	*	*	*
28-Apr	*	233.8	233.6	*	*	*	*	*
29-Apr	*	233.8	233.6	*	*	*	*	*
30-Apr	*	233.9	233.7	*	*	*	*	*
Average	**168.0**	**233.6**	**233.4**	**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-Apr	142.4	215.4	215.8	228.4	237.3	239.8	216.7	203.7
2-Apr	142.7	215.6	215.9	228.6	237.5	240.0	216.8	203.8
3-Apr	142.9	215.8	216.1	228.9	237.8	240.3	217.0	204.2
4-Apr	143.1	215.8	216.1	228.8	237.7	240.2	216.9	204.1
5-Apr	143.2	215.6	215.9	228.8	237.7	240.3	217.0	204.2
6-Apr	142.9	215.3	215.6	228.5	237.4	240.0	216.6	203.9
7-Apr	142.4	215.0	215.3	228.2	237.1	239.7	216.3	203.7
8-Apr	142.2	214.5	214.8	227.9	236.9	239.4	216.0	203.5
9-Apr	142.4	214.6	214.9	228.1	237.0	239.6	216.1	203.6
10-Apr	142.1	214.5	214.7	228.0	237.0	239.6	216.0	203.6
11-Apr	141.8	214.3	214.6	227.9	236.8	239.4	215.7	203.5
12-Apr	141.7	214.5	214.7	228.0	236.8	239.4	215.6	203.5
13-Apr	141.9	215.1	215.4	228.3	237.0	239.6	215.8	203.7
14-Apr	141.7	215.4	215.7	228.4	237.1	239.7	215.9	203.9
15-Apr	141.5	215.3	215.7	228.4	237.0	239.6	215.8	203.9
16-Apr	141.3	215.2	215.6	228.3	236.8	239.5	215.7	203.8
17-Apr	141.4	215.3	215.7	228.4	236.8	239.6	215.6	203.9
18-Apr	141.3	215.5	215.9	228.5	237.0	239.9	215.8	204.2
19-Apr	141.3	215.7	216.0	228.5	237.0	240.1	215.9	204.3
20-Apr	141.5	215.6	215.8	228.6	237.1	240.2	216.0	204.5
21-Apr	142.1	215.5	215.7	228.4	236.8	240.0	215.6	204.3
22-Apr	141.3	215.5	215.8	228.3	236.8	240.0	215.5	204.3
23-Apr	141.4	215.6	215.9	228.3	236.8	240.1	215.5	204.5
24-Apr	141.4	215.5	215.8	228.1	236.7	239.9	215.2	204.3
25-Apr	141.5	215.4	215.8	228.1	236.6	239.9	215.2	204.3
26-Apr	141.4	215.5	215.8	228.2	236.8	239.9	215.1	204.4
27-Apr	141.7	215.2	215.5	227.9	236.6	239.7	214.7	204.1
28-Apr	142.1	215.5	215.8	228.2	236.9	240.0	214.9	204.4
29-Apr	142.2	215.5	215.8	228.2	237.0	240.0	214.8	204.5
30-Apr	142.2	215.4	215.8	228.2	237.1	240.0	214.8	204.5
Average	**142.0**	**215.3**	**215.6**	**228.3**	**237.0**	**239.8**	**215.8**	**204.0**

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-Apr	206.8	207.5	208.0	207.7	207.7
2-Apr	207.1	208.0	208.3	208.1	208.2
3-Apr	207.4	208.2	208.5	208.3	208.3
4-Apr	207.6	208.3	208.7	208.5	208.5
5-Apr	207.5	208.3	208.7	208.5	208.5
6-Apr	206.8	207.6	207.9	207.7	207.7
7-Apr	206.2	206.7	206.9	206.8	206.8
8-Apr	206.4	206.6	206.7	206.7	206.7
9-Apr	206.9	207.0	207.3	207.2	207.2
10-Apr	206.6	206.6	207.0	206.9	206.8
11-Apr	206.2	206.6	206.8	206.8	206.8
12-Apr	206.6	207.2	207.2	207.2	207.3
13-Apr	206.8	207.4	207.4	207.4	207.5
14-Apr	206.9	207.2	207.3	207.3	207.2
15-Apr	207.0	207.0	207.1	207.1	207.0
16-Apr	207.0	207.7	207.8	207.9	207.8
17-Apr	207.1	207.7	207.9	208.0	207.9
18-Apr	207.5	208.1	208.2	208.3	208.2
19-Apr	207.5	208.1	208.3	208.3	208.2
20-Apr	207.7	208.1	208.2	208.3	208.2
21-Apr	207.4	207.9	207.9	208.0	207.9
22-Apr	207.3	207.7	207.7	207.8	207.7
23-Apr	207.7	208.2	208.1	208.1	208.2
24-Apr	207.5	207.9	207.9	207.9	207.9
25-Apr	207.3	207.8	207.7	207.8	207.9
26-Apr	207.3	208.0	207.8	207.9	207.9
27-Apr	207.5	208.6	208.2	208.4	208.4
28-Apr	207.8	208.5	208.1	208.3	208.4
29-Apr	207.8	209.5	209.3	209.4	209.4
30-Apr	207.5	210.0	209.8	210.0	210.0
Average	**207.2**	**207.8**	**207.9**	**207.9**	**207.9**

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-Apr	145.9	186.6	210.8	194.2	193.7	196.7	202.7	208.9
2-Apr	146.0	184.1	211.2	194.2	192.7	196.8	203.9	208.5
3-Apr	146.5	184.6	211.2	194.4	193.4	197.3	203.9	208.6
4-Apr	146.5	182.8	211.5	194.5	193.1	197.3	204.4	210.3
5-Apr	146.5	182.0	211.7	194.6	192.4	196.9	205.4	212.8
6-Apr	146.3	187.9	211.3	194.2	192.2	196.4	204.5	209.8
7-Apr	146.0	189.9	210.5	193.9	193.0	196.3	202.6	210.1
8-Apr	145.9	191.9	210.4	194.0	195.1	197.9	200.5	205.0
9-Apr	146.1	184.0	211.2	194.1	192.2	198.5	204.6	209.8
10-Apr	145.9	184.3	211.3	194.1	192.0	198.3	203.9	209.4
11-Apr	145.6	187.1	210.8	193.7	194.1	198.2	201.5	207.1
12-Apr	145.4	188.7	210.7	194.1	195.2	198.2	200.2	205.9
13-Apr	145.4	185.9	211.3	194.4	193.7	198.6	202.8	209.3
14-Apr	145.2	187.0	211.4	194.6	192.4	198.9	203.7	211.1
15-Apr	144.8	189.8	211.4	194.6	192.1	198.6	203.7	208.9
16-Apr	144.4	186.4	211.5	194.6	191.6	198.7	204.2	210.5
17-Apr	144.4	184.0	212.1	194.6	190.8	198.5	205.5	211.7
18-Apr	144.5	184.0	212.2	194.9	191.1	199.0	205.7	212.6
19-Apr	144.5	183.6	212.2	195.1	191.8	199.1	204.7	212.2
20-Apr	144.7	182.6	212.4	195.5	192.2	199.3	205.0	211.6
21-Apr	144.6	182.2	212.2	195.0	191.2	199.1	205.0	213.7
22-Apr	144.6	182.6	212.3	195.3	191.8	199.5	204.2	212.1
23-Apr	144.9	181.5	212.5	195.7	191.9	200.1	205.2	214.1
24-Apr	144.8	180.1	212.5	195.5	191.1	199.8	205.6	214.0
25-Apr	144.8	182.0	212.5	195.3	191.0	199.8	205.9	211.9
26-Apr	145.0	183.2	212.5	195.2	191.4	199.8	205.2	212.2
27-Apr	145.0	180.9	212.5	195.5	191.8	200.1	205.5	211.4
28-Apr	145.3	181.8	213.1	196.4	192.8	200.9	206.4	212.5
29-Apr	145.3	180.6	212.5	195.5	191.6	200.2	205.8	211.5
30-Apr	145.5	181.2	212.7	195.7	191.8	200.3	205.3	212.6
Average	**145.3**	**184.4**	**211.7**	**194.8**	**192.4**	**198.6**	**204.2**	**210.7**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 8

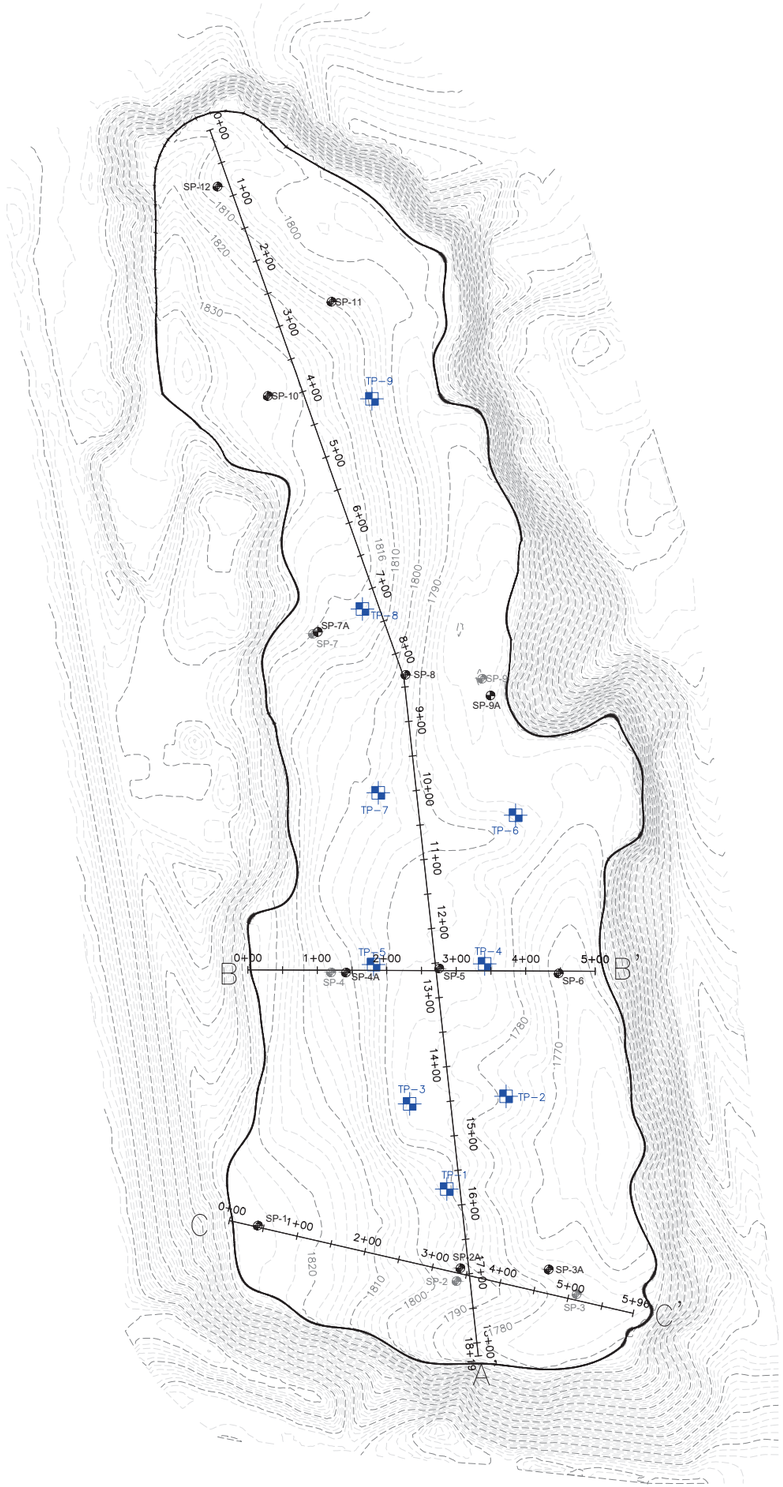
	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Apr	188.7	193.3	193.5	195.9	198.4	199.2	190.4	176.2
2-Apr	188.9	193.5	193.8	196.2	198.6	199.4	190.5	176.2
3-Apr	189.0	193.8	194.1	196.5	198.9	199.7	190.8	176.5
4-Apr	189.0	193.8	194.1	196.5	199.0	199.7	190.8	176.4
5-Apr	189.1	193.8	194.1	196.5	199.0	199.8	190.8	176.4
6-Apr	188.9	193.5	193.8	196.1	198.6	199.5	190.5	176.0
7-Apr	188.4	193.1	193.4	195.7	198.2	199.1	190.2	175.7
8-Apr	187.9	192.9	193.3	195.6	198.1	199.0	190.0	175.5
9-Apr	188.3	193.2	193.5	195.9	198.3	199.1	190.0	175.5
10-Apr	188.0	193.2	193.4	195.8	198.2	199.0	189.9	175.4
11-Apr	187.8	192.9	193.2	195.5	197.9	198.8	189.8	175.2
12-Apr	187.5	192.9	193.2	195.6	198.0	198.8	189.8	175.1
13-Apr	187.8	193.1	193.4	195.8	198.3	199.1	190.0	175.2
14-Apr	188.1	193.3	193.6	196.0	198.5	199.4	190.2	175.5
15-Apr	188.3	193.4	193.7	195.9	198.4	199.4	190.2	175.5
16-Apr	188.2	193.2	193.5	195.9	198.3	199.2	190.0	175.3
17-Apr	188.2	193.2	193.6	196.0	198.4	199.2	189.9	175.1
18-Apr	188.6	193.6	193.9	196.3	198.8	199.6	190.3	175.5
19-Apr	188.8	193.7	194.0	196.4	198.7	199.6	190.2	175.4
20-Apr	189.0	193.8	194.2	196.6	199.0	199.8	190.4	175.6
21-Apr	188.9	193.6	193.9	196.3	198.7	199.5	190.2	175.4
22-Apr	188.9	193.7	194.0	196.3	198.7	199.6	190.3	175.3
23-Apr	188.8	193.7	194.1	196.5	198.9	199.7	190.4	175.5
24-Apr	188.9	193.7	194.0	196.4	198.8	199.6	190.2	175.3
25-Apr	188.9	193.6	193.9	196.3	198.8	199.6	190.2	175.2
26-Apr	188.7	193.6	194.0	196.3	198.9	199.7	190.2	175.3
27-Apr	188.4	193.4	193.7	196.1	198.6	199.4	189.8	174.9
28-Apr	188.7	193.6	194.0	196.4	199.0	199.7	190.2	175.2
29-Apr	188.8	193.7	194.0	196.4	199.0	199.7	190.1	175.2
30-Apr	189.0	193.7	194.1	196.5	199.0	199.8	190.2	175.2
Average	**188.6**	**193.4**	**193.8**	**196.1**	**198.6**	**199.4**	**190.2**	**175.5**

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-Apr	106.8	146.7	145.8	148.7	144.7	132.1	115.8	105.1
2-Apr	107.7	147.3	146.5	149.1	145.1	132.6	116.2	105.6
3-Apr	108.1	147.6	146.6	149.5	145.5	132.9	116.5	105.9
4-Apr	108.4	147.7	146.8	149.5	145.6	132.8	116.6	106.0
5-Apr	108.1	147.8	146.7	149.5	145.6	132.7	116.6	105.9
6-Apr	107.4	147.1	146.0	149.1	145.1	132.3	116.3	105.4
7-Apr	102.0	146.3	144.9	148.6	144.7	131.9	115.9	105.1
8-Apr	103.4	145.1	143.6	148.1	144.5	131.6	115.6	104.7
9-Apr	106.6	146.6	145.8	148.4	144.5	131.6	115.8	104.8
10-Apr	106.8	146.6	145.7	148.3	144.3	131.4	115.6	104.6
11-Apr	105.3	146.2	145.2	148.2	144.2	131.3	114.9	104.5
12-Apr	104.0	145.7	144.6	148.1	144.2	131.2	113.5	104.5
13-Apr	105.1	146.1	145.1	148.5	144.7	131.6	114.8	105.0
14-Apr	106.8	146.9	146.0	148.9	145.0	132.0	115.1	105.3
15-Apr	107.7	147.1	146.3	148.8	144.7	131.8	114.9	105.0
16-Apr	107.2	147.1	146.2	148.6	144.7	131.7	114.8	104.8
17-Apr	107.2	147.1	146.1	148.8	144.8	131.8	115.0	104.9
18-Apr	107.4	147.4	146.3	149.0	145.0	132.0	115.3	105.0
19-Apr	107.4	147.4	146.4	149.1	145.2	132.1	115.3	105.0
20-Apr	107.7	147.6	146.6	149.3	145.4	132.3	115.9	105.2
21-Apr	107.2	147.3	146.2	149.1	145.2	132.1	116.1	105.0
22-Apr	106.9	147.2	146.0	149.0	145.1	132.0	115.9	104.8
23-Apr	106.5	147.1	145.9	149.2	145.4	132.4	116.1	105.1
24-Apr	106.3	146.8	145.6	149.0	145.3	132.2	116.0	105.0
25-Apr	106.0	146.6	145.3	148.9	145.3	132.1	115.9	104.9
26-Apr	105.3	146.0	144.8	148.8	145.2	132.1	115.8	104.8
27-Apr	105.9	146.1	145.0	148.7	145.0	132.0	115.7	104.8
28-Apr	106.3	146.6	145.5	149.0	145.3	132.3	115.9	105.1
29-Apr	106.3	146.6	145.5	148.9	145.3	132.3	116.0	105.1
30-Apr	106.4	146.7	145.5	149.0	145.3	132.3	116.1	105.1
Average	**106.5**	**146.8**	**145.8**	**148.9**	**145.0**	**132.0**	**115.7**	**105.1**

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 APRIL 24, 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: APRIL 2024 LANDFILL TOPOGRAPHY

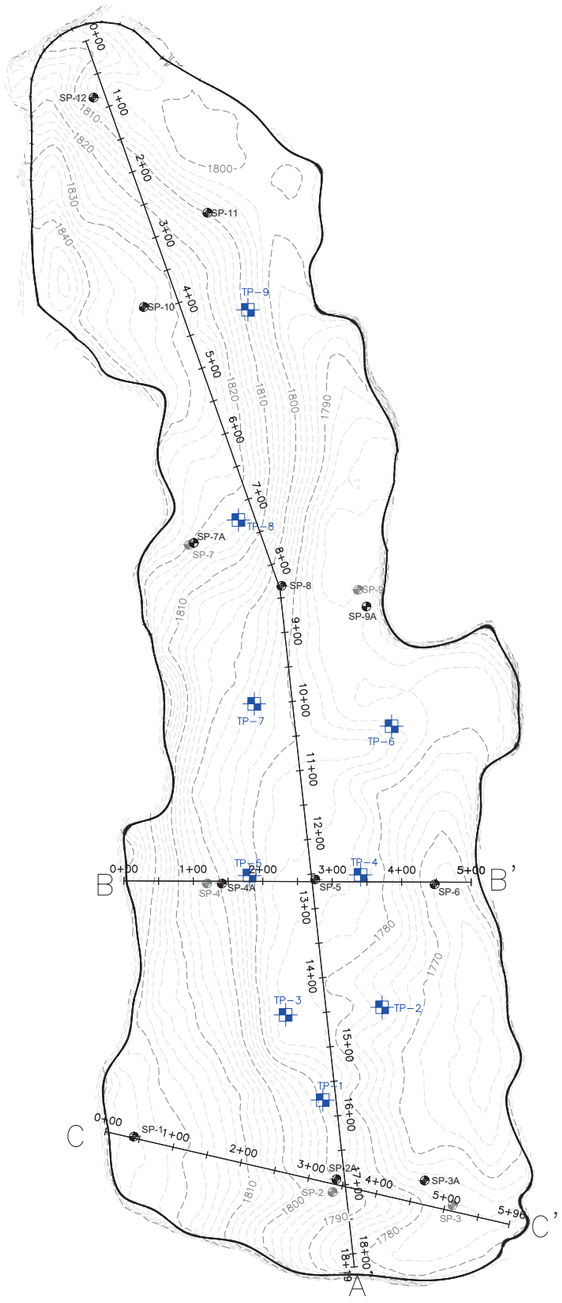
PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
6521 MERIDIAN DRIVE, SUITE 100, GLEN ALLEN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 02218205.05
DSN. BY: CJW
DWN. BY: VHM
CHK. BY: CJW
Q/A RVW. BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP
DATE: 5/1/2025
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 JANUARY 14, 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: JANUARY 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 TURNPIKE, MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

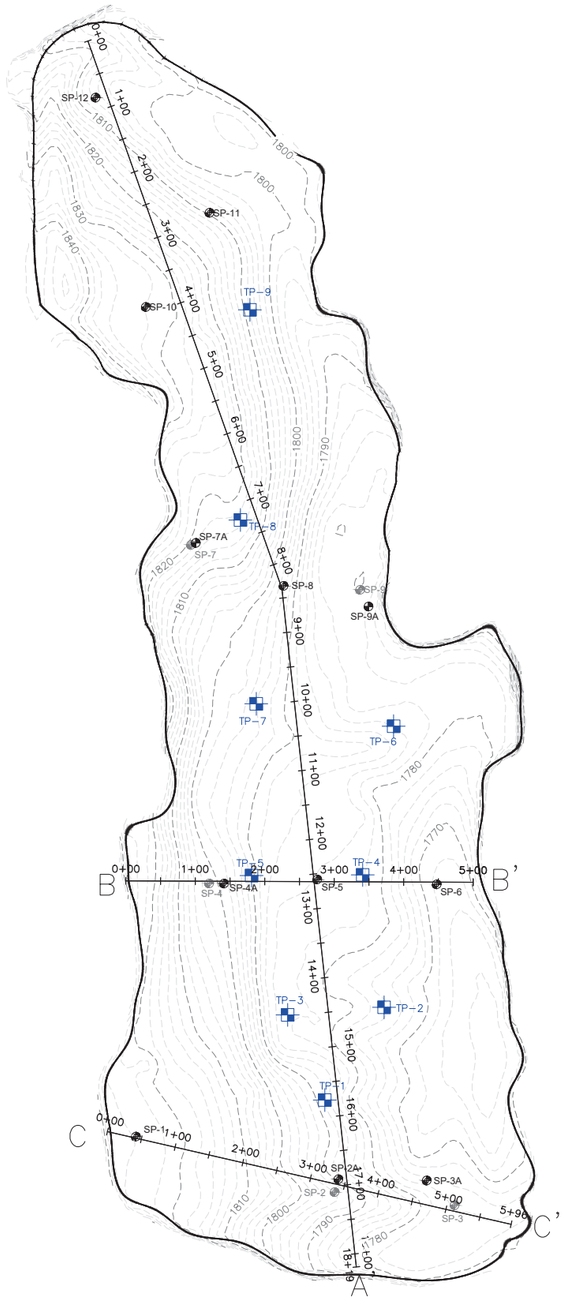
PROJ. NO. 02192208.05
DSK: BP SRB
DWN. BY: VMM
CHK. BY: CJW
Q/A RVW BY:
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 5/1/2025

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 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

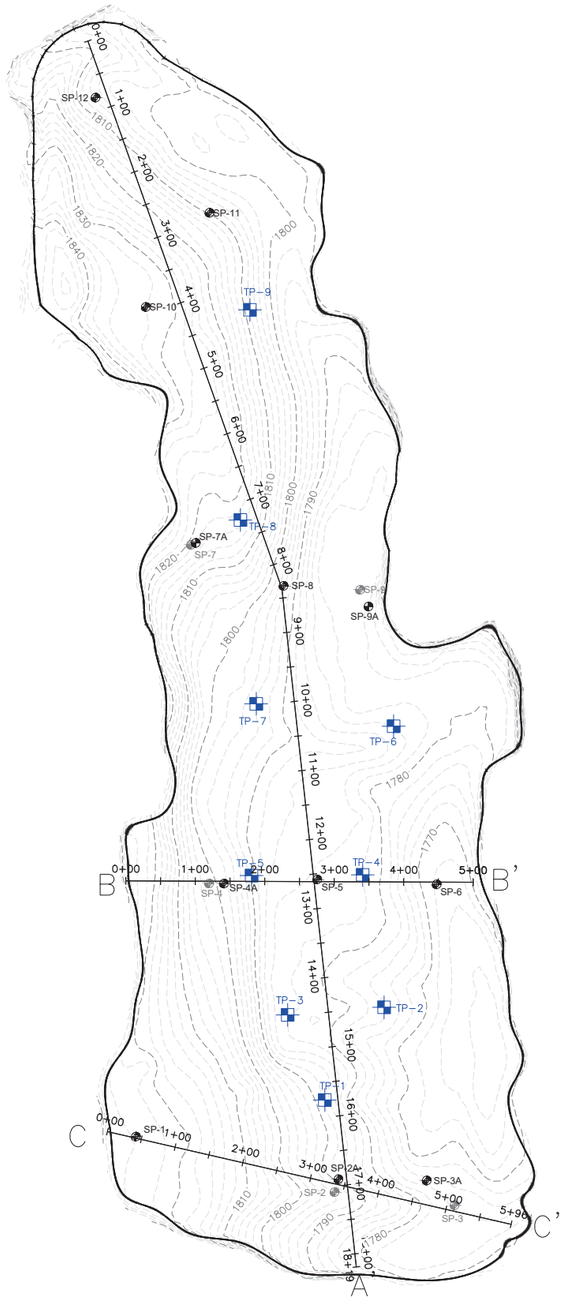
PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

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 TURNPIKE, MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 27218208.05
DSN: BY:
DWN: BY: VMM
CHK: BY: CJW
Q/A RVW BY:
APP: BY: CJW

CADD FILE: SURF COMP
DATE: 5/1/2025
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 APRIL 16, 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: APRIL 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
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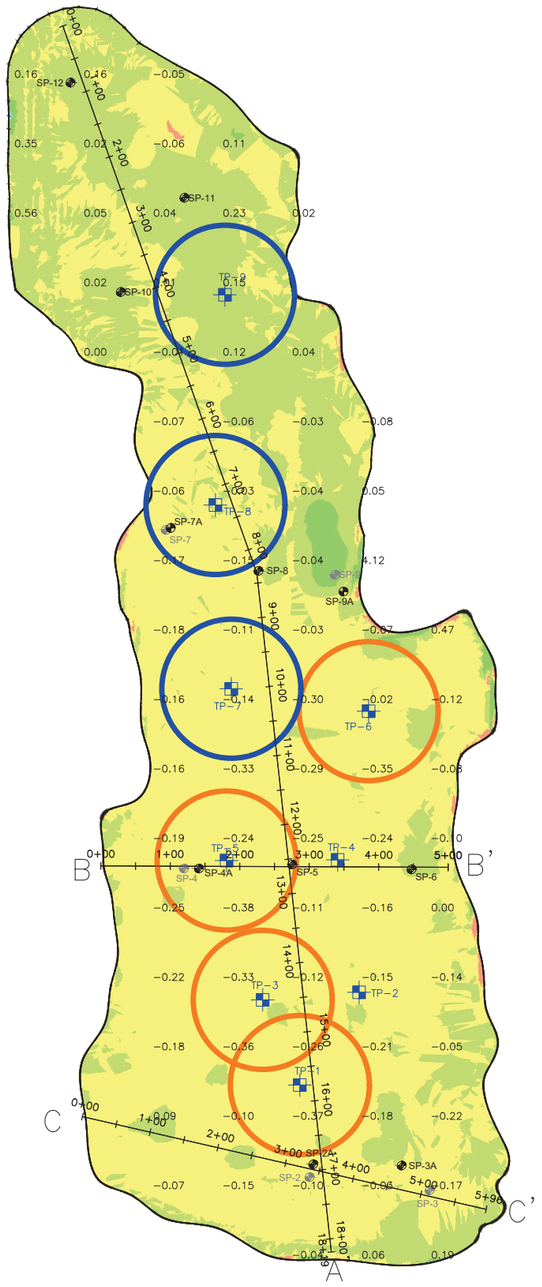
PROJ. NO. 28208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
QA/QC BY:
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 5/1/2025

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 – March 11, 2025
Comparison Surface TOPO – April 16, 2025

Cut Volume	3,522	Cu. Yd.
Fill Volume	1,555	Cu. Yd.
Net Cut	1,967	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 11, 2025 AND APRIL 16, 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: APRIL VOLUME CHANGE MARCH 2025 TO APRIL 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 TPKE, MIDLOTHIAN, VA 23113
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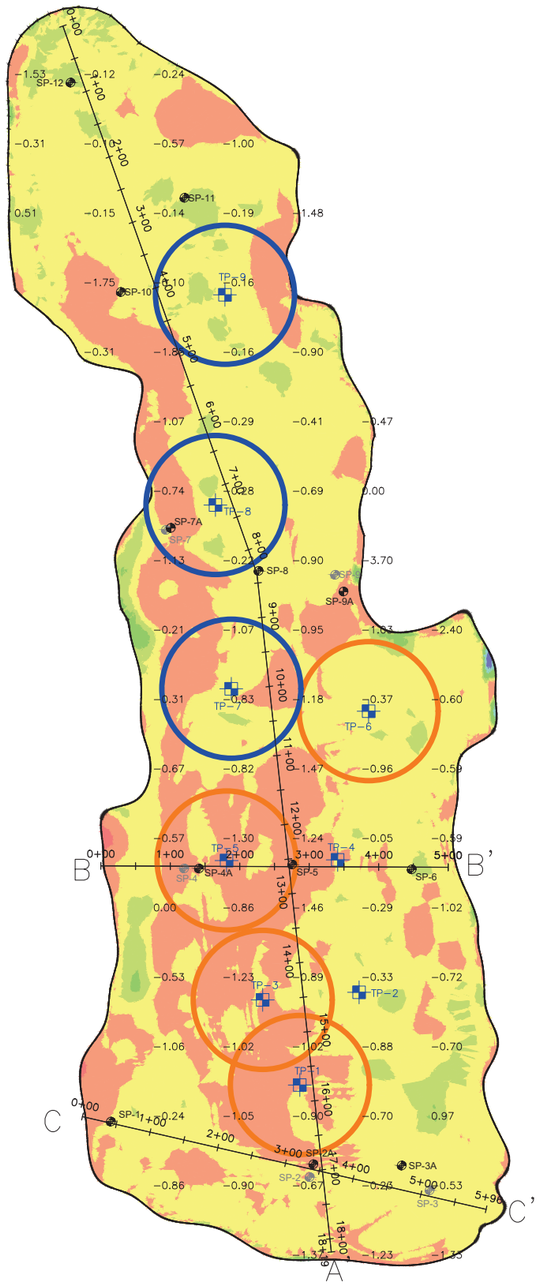
PROJ. NO. 02218208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
Q/A REVIEW BY:
APP. BY: CJW

CADD FILE: SURF COMP
DATE: 5/1/2025
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 – January 14, 2025	
Comparison Surface	TOPO – April 16, 2025	
Cut Volume	21,472	Cu. Yd.
Fill Volume	658	Cu. Yd.
Net Cut	20,814	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 JANUARY 14, 2025 AND APRIL 16, 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.
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100 50 0 100 200

SCALE: 1"=100'

NO. | REVISION | DATE

SHEET TITLE: APRIL VOLUME CHANGE JANUARY 2025 TO APRIL 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.
10521 MIDLOTHIAN TURNPIKE, MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX. (804) 378-7433

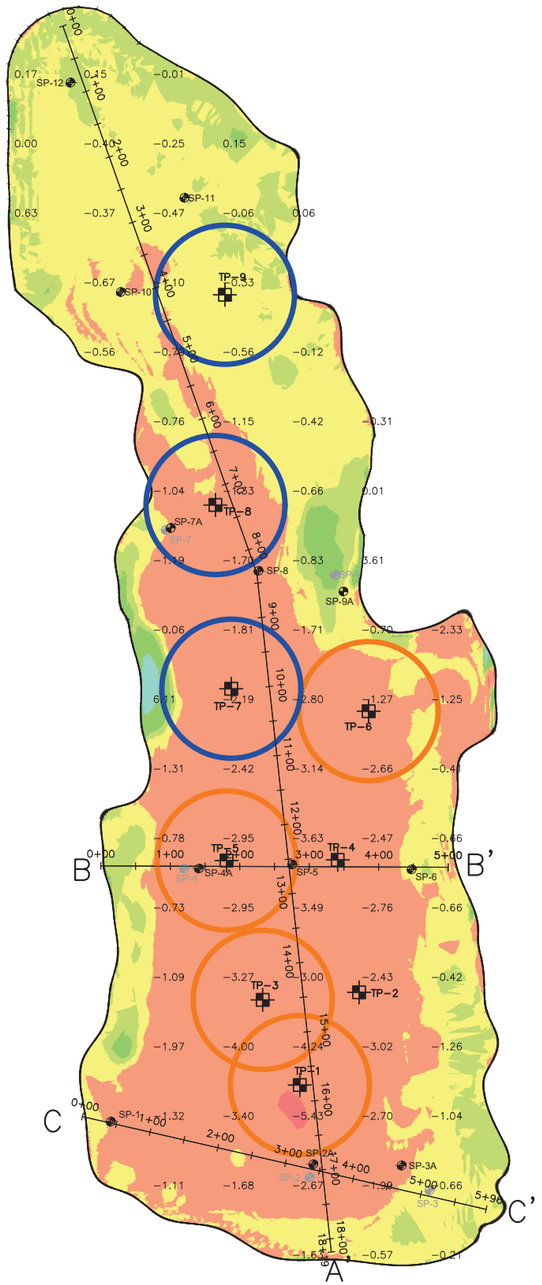
PROJ. NO. 02228208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
QA/QC BY: RVW, BW
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 5/1/2025

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 – April 24, 2024	
Comparison Surface	TOPO – April 16, 2025	
Cut Volume	38,635	Cu. Yd.
Fill Volume	1,849	Cu. Yd.
Net Cut	36,786	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 APRIL 24, 2024 AND APRIL 16, 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(S) IS BASED UPON NAVD–88.

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

NO.	REVISION	DATE

SHEET TITLE: APRIL VOLUME CHANGE APRIL 2024 TO APRIL 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

PROJECT NO. 02226208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
QA/QC BY:
APP. BY: CJW

CADD FILE: SURF COMP
DATE: 5/1/2025
SCALE:
DRAWING NO. 7

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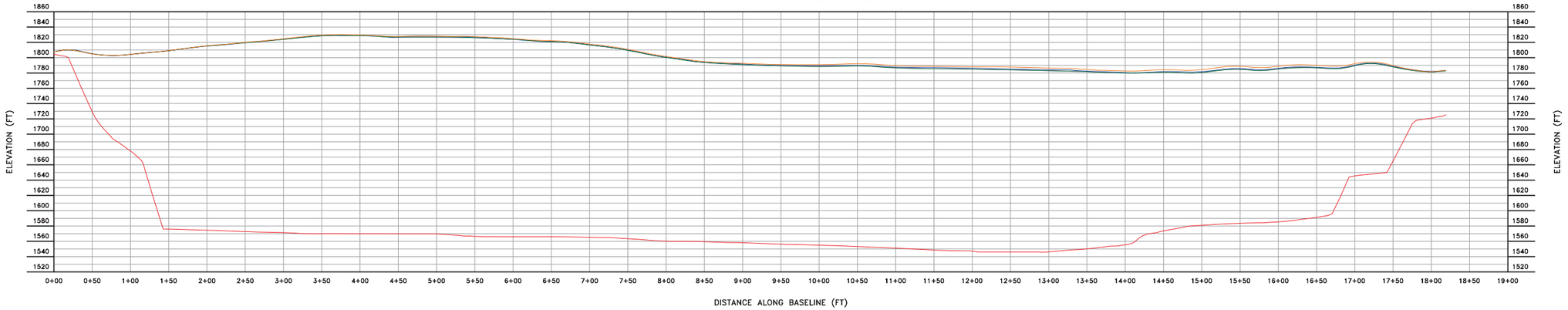

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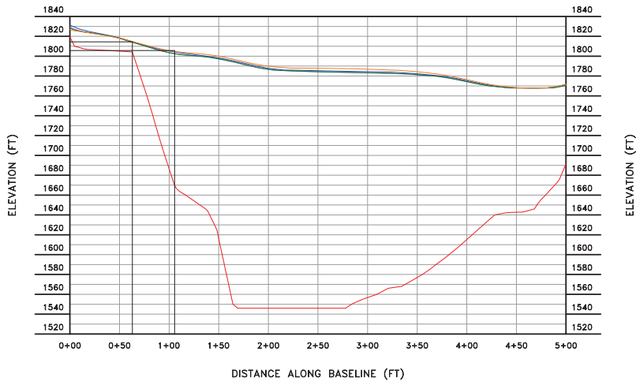

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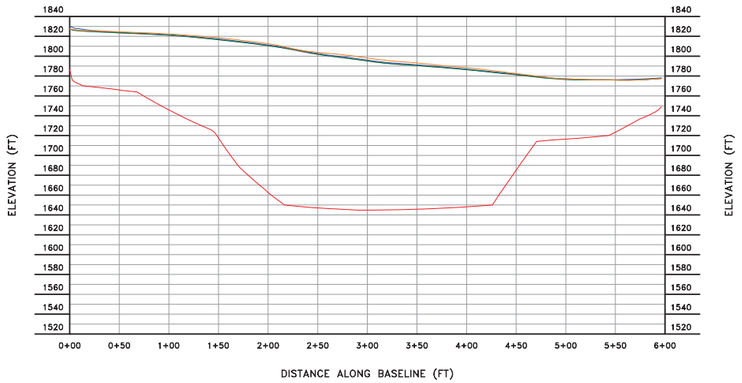

LEGEND

- BOTTOM LINER ELEVATION
- APRIL 2024 TOPO
- JANUARY 2025 TOPO
- MARCH 2025 TOPO
- APRIL 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: 5/1/2025
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	4/1 - 4/2/2025													
Personnel	M. Nguyen, L. Tucker								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	4/1/2025	5.94	64.90	49.14	Too tall to read	459999	180.00	135	115.10	Y	0	N	✓	Air off, lost PVC
EW-49	4/2/2025	6.08	71.57	70.62	79565	79565	96.15	87	24.58	Y	0	N	✓	Air off, pump head leaning, too tall to take on/off
EW-50	4/2/2025	4.88	49.72	50.57	1552761	1539187	77.70	83	27.98	Y	80	N	✓	
EW-52	4/2/2025	3.46	43.74	45.32	1239036	1235299	98.70	80	54.96	Y	105	N	✓	Quick connect air line doesn't lock
EW-53	4/2/2025	4.79	52.01	42.53	3294528	3294525	100.70	77	48.69	Y	120	N	✓	
EW-54	4/2/2025	4.46	33.87	31.78	---	--	82.70	65	48.83	Y	0	N	✓	Air not connected
EW-55	4/2/2025	3.84	38.94	34.79	73374	73374	90.40	90	51.46	Y	0	N	✓	Air off
EW-59	4/1/2025	4.49	36.22	34.17	3537043	3536810	73.40	61	37.18	Y	100	N	✓	
EW-60	4/2/2025	4.72	41.17	48.93	147455	126607	81.80	72.5	40.63	Y	110	Y	✓	
EW-62	4/2/2025	3.96	75.91	DNM	214599	--	110.60	91.5	34.69	Y	0	N	✓	Air on, PSI reading 0
EW-63	4/2/2025	5.04	58.72	DNM	---	--	117.00	---	58.28	Y	---	N	✓	Air disconnected
EW-64	4/2/2025	4.33	81.75	79.12	196791	196791	109.00	90	27.25	Y	0	N	✓	Air on, PSI reading 0
EW-65	4/2/2025	3.13	50.02	50.37	79679	77157	88.40	70	38.38	Y	115	N	✓	
EW-67	4/2/2025	3.27	40.46	39.66	---	28743	107.75	76	67.29	Y	0	N	✓	Air off
EW-68	4/2/2025	1.85	46.50	43.82	2647461	2642840	73.57	60	27.07	Y	180	Y	✓	
EW-78	4/1/2025	3.87	46.62	45.41	31066	18075	57.00	47	10.38	Y	95	N	✓	
EW-81	4/2/2025	6.42	103.73	62.28	Too tall to read	--	151.56	125	47.83	Y	---	N	✓	
EW-82	4/2/2025	4.48	123.11	144.34	631288	631288	163.26	145	40.15	Y	0	N	✓	Air off
EW-83	4/2/2025	5.08	85.84	86.25	2263	69720	167.04	145	81.20	Y	0	N	✓	Air off
EW-85	4/1/2025	6.25	62.84	55.73	294797	292827	91.00	78	28.16	Y	110	N	✓	
EW-93	4/1/2025	4.37	33.84	58.88	1292375	1283214	111.00	---	77.16	Y	0	N	✓	Air off
EW-96	4/2/2025	7.42	48.19	48.23	Too tall to read	--	164.35	145	116.16	Y	0	N	✓	Air off
EW-98	4/1/2025	4.37	31.78	32.17	1716630	1637860	51.00	46	19.22	Y	110	N	✓	

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

Date	4/1 - 4/2/2025													
Personnel	M. Nguyen, L. Tucker								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	4/2/2025	3.33	Dry	Dry	--	---	42.71	---	---	N	---	N	✓	Hit bottom at 38.40'
EW-61	4/1/2025	2.92	63.32	62.18	---	--	87.80	75	24.48	N	---	N	✓	
EW-66	4/2/2025	6.45	33.97	30.98	--	---	---	---	---	N	---	N	✓	
EW-69	4/2/2025	4.63	93.23	---	---	--	98.00	---	4.77	N	---	N	✓	
EW-70	4/1/2025	2.04	65.32	64.63	--	---	71.00	58	5.68	N	---	N	✓	
EW-71	4/1/2025	5.52	166.06	169.49	--	---	185.80	---	19.74	N	---	N	✓	
EW-72	4/2/2025	4.83	110.68	117.34	--	---	141.21	---	30.53	N	---	N	✓	
EW-73	4/1/2025	3.78	107.19	107.40	--	---	116.00	---	8.81	N	---	N	✓	
EW-74	4/2/2025	6.13	161.71	159.73	--	---	184.15	---	22.44	N	---	N	✓	
EW-77	4/2/2025	5.31	118.14	120.72	--	---	185.22	---	67.08	N	---	N	✓	
EW-79	4/2/2025	5.25	154.82	153.83	--	---	185.64	---	30.82	N	---	N	✓	
EW-80	4/2/2025	3.02	142.71	137.84	--	---	149.00	---	6.29	N	---	N	✓	Blackline gas meter goes off around this well
EW-84	4/2/2025	3.96	79.76	81.62	--	---	130.56	---	50.80	N	---	N	✓	
EW-86	4/2/2025	3.30	77.05	77.14	--	---	153.00	---	75.95	N	---	N	✓	
EW-91	4/2/2025	6.05	46.14	47.19	--	---	137.70	---	91.56	N	---	N	✓	
EW-92	4/2/2025	8.25	---	DNM	--	---	112.99	---	---	N	---	N	✓	Too tall to measure
EW-95	4/2/2025	---	---	DNM	--	---	68.00	---	---	N	---	N	✓	Caution tape around well, did not measure
EW-97	4/2/2025	7.83	---	DNM	--	---	144.50	---	---	N	---	N	✓	Too tall to measure
EW-99	4/2/2025	3.23	60.53	58.78	--	---	65.00	---	4.47	N	---	N	✓	

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

Date	4/1 - 4/2/2025													
Personnel	M. Nguyen, L. Tucker								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]	4/2/2025	5.79	DNM	DNM	---	--	185.00	140	---	N	---	N	✓	
EW-75[1]	4/2/2025	5.21	DNM	DNM	---	--	130.82	140	---	N	---	N	✓	
EW-76[2]	4/2/2025	3.67	DNM	DNM	---	--	127.00	108	---	N	---	N	✓	
EW-87[2]	4/2/2025	6.33	DNM	DNM	360749	340749	149.57	110	---	Y	---	N	✓	Air off
EW-88[2]	4/2/2025	4.42	DNM	DNM	---	--	100.00	61	---	Y	---	N	✓	Air disconnected
EW-89[2]	4/2/2025	4.92	DNM	DNM	0	--	84.57	70	---	Y	---	N	✓	Air off
EW-94[1]	4/2/2025	3.58	DNM	DNM	1128396	987027	50.00	38	---	Y	90	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	---	---	---	---	---	---	---	---	---
EW-51	---	---	---	---	---	---	---	---	---
EW-52	---	---	---	---	---	---	---	---	---
EW-53	---	---	---	---	---	---	---	---	---
EW-54	---	---	---	---	---	---	---	---	---
EW-55	---	---	---	---	---	---	---	---	---
EW-57	---	---	---	---	---	---	---	---	---
EW-58	---	---	---	---	---	---	---	---	---
EW-59	---	---	---	---	---	---	---	---	---
EW-60	4/2/2025	9:30	63.0	5.61	25.56	+++++*	-140.80	3.81	Sheen, dark brown
EW-61	---	---	---	---	---	---	---	---	---
EW-62	---	---	---	---	---	---	---	---	---
EW-64	---	---	---	---	---	---	---	---	---
EW-67	---	---	---	---	---	---	---	---	---
EW-68	4/2/2025	12:15	73.0	6.45	31.54	+++++*	-185.30	0.00	Light sheen, blackish
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. Tucker	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

ENTHALPY ANALYTICAL

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

Certificate of Analysis

Final Report

Laboratory Order ID 25D0534

Client Name:	SCS Engineers - Winchester 296 Victory Road Winchester, VA 22602	Date Received:	April 7, 2025 9:30
		Date Issued:	April 21, 2025 17:24
		Project Number:	02218208.15 Task 4
Submitted To:	Jennifer Robb	Purchase Order:	
Client Site I.D.:	Bristol LFG-EW Monthly Monitoring		

Enclosed are the results of analyses for samples received by the laboratory on 04/07/2025 09:30. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Sarah R. Endsley
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: Bristol LFG-EW Monthly Monitoring
Submitted To: Jennifer Robb

Date Issued: 4/21/2025 5:24:05PM

Laboratory Sample ID: **25D0534-01** **Client Sample ID:** **EW-60**

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	01	SW6010D	0.246		0.0100	0.0200	1	mg/L
Barium	01	SW6010D	1.96		0.0050	0.0100	1	mg/L
Cadmium	01	SW6010D	0.0284		0.0020	0.0040	1	mg/L
Chromium	01	SW6010D	0.248		0.0080	0.0100	1	mg/L
Lead	01	SW6010D	0.132		0.0060	0.0100	1	mg/L
Mercury	01	SW6020B	1.69		1.00	1.00	5	ug/L
Nickel	01	SW6010D	0.0161		0.0070	0.0100	1	mg/L
Silver	01	SW6010D	0.0070	J	0.0050	0.0100	1	mg/L
Zinc	01RE1	SW6010D	0.366		0.0500	0.0500	5	mg/L
2-Butanone (MEK)	01	SW8260D	20800		150	500	50	ug/L
Acetone	01RE1	SW8260D	61200		3500	5000	500	ug/L
Benzene	01	SW8260D	938		20.0	50.0	50	ug/L
Ethylbenzene	01	SW8260D	52.5		20.0	50.0	50	ug/L
Tetrahydrofuran	01	SW8260D	3660		500	500	50	ug/L
Toluene	01	SW8260D	51.0		25.0	50.0	50	ug/L
Xylenes, Total	01	SW8260D	87.5	J	50.0	150	50	ug/L
Ammonia as N	01	EPA350.1 R2.0	2440		146	200	2000	mg/L
BOD	01	SM5210B-2016	33900	H	0.2	2.0	1	mg/L
COD	01	SM5220D-2011	47900		6300	10000	1000	mg/L
TKN as N	01RE1	EPA351.2 R2.0	2240		80.0	200	400	mg/L
Total Recoverable Phenolics	01	SW9065	43.0		1.50	2.50	1	mg/L

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Analysis Detects Report

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

Date Issued: 4/21/2025 5:24:05PM

Laboratory Sample ID: **25D0534-02** **Client Sample ID:** **EW-68**

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	02	SW6010D	0.217		0.0100	0.0200	1	mg/L
Barium	02	SW6010D	2.95		0.0050	0.0100	1	mg/L
Chromium	02	SW6010D	0.143		0.0080	0.0100	1	mg/L
Copper	02	SW6010D	0.0090	J	0.0080	0.0100	1	mg/L
Lead	02	SW6010D	0.0207		0.0060	0.0100	1	mg/L
Nickel	02	SW6010D	0.0713		0.0070	0.0100	1	mg/L
Zinc	02	SW6010D	0.0297		0.0100	0.0100	1	mg/L
2-Butanone (MEK)	02	SW8260D	28100		150	500	50	ug/L
Acetone	02RE1	SW8260D	78000		3500	5000	500	ug/L
Benzene	02	SW8260D	1540		20.0	50.0	50	ug/L
Ethylbenzene	02	SW8260D	73.5		20.0	50.0	50	ug/L
Tetrahydrofuran	02	SW8260D	5920		500	500	50	ug/L
Toluene	02	SW8260D	114		25.0	50.0	50	ug/L
Xylenes, Total	02	SW8260D	144	J	50.0	150	50	ug/L
Ammonia as N	02	EPA350.1 R2.0	2580		146	200	2000	mg/L
BOD	02	SM5210B-2016	24600	H	0.2	2.0	1	mg/L
COD	02	SM5220D-2011	24100		6300	10000	1000	mg/L
Nitrite as N	02	SM4500-NO2B-2021	7.60	H	1.00	5.00	100	mg/L
TKN as N	02	EPA351.2 R2.0	2600		45.9	250	500	mg/L
Total Recoverable Phenolics	02	SW9065	35.0		0.750	1.25	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.: Bristol LFG-EW Monthly Monitoring
Submitted To: Jennifer Robb

Date Issued: 4/21/2025 5:24:05PM
Work Order: 25D0534

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EW-60	25D0534-01	Ground Water	04/02/2025 09:30	04/07/2025 09:30
EW-68	25D0534-02	Ground Water	04/02/2025 12:15	04/07/2025 09:30
Trip Blank	25D0534-03	Waste Water	03/25/2025 10:43	04/07/2025 09:30

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Certificate of Analysis

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

Date Issued: 4/21/2025 5:24:05PM
Work Order: 25D0534

Client Sample ID: **EW-60** **Laboratory Sample ID:** **25D0534-01**

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	04/09/2025 17:00	04/10/2025 11:52	0.0070	J	0.0050	0.0100	1	mg/L	DRH
Arsenic	01	7440-38-2	SW6010D	04/09/2025 17:00	04/10/2025 11:52	0.246		0.0100	0.0200	1	mg/L	DRH
Barium	01	7440-39-3	SW6010D	04/09/2025 17:00	04/10/2025 11:52	1.96		0.0050	0.0100	1	mg/L	DRH
Cadmium	01	7440-43-9	SW6010D	04/09/2025 17:00	04/10/2025 11:52	0.0284		0.0020	0.0040	1	mg/L	DRH
Chromium	01	7440-47-3	SW6010D	04/09/2025 17:00	04/10/2025 11:52	0.248		0.0080	0.0100	1	mg/L	DRH
Copper	01	7440-50-8	SW6010D	04/09/2025 17:00	04/10/2025 11:52	BLOD		0.0080	0.0100	1	mg/L	DRH
Mercury	01	7439-97-6	SW6020B	04/09/2025 17:00	04/16/2025 12:52	1.69		1.00	1.00	5	ug/L	AB
Nickel	01	7440-02-0	SW6010D	04/09/2025 17:00	04/10/2025 11:52	0.0161		0.0070	0.0100	1	mg/L	DRH
Lead	01	7439-92-1	SW6010D	04/09/2025 17:00	04/10/2025 11:52	0.132		0.0060	0.0100	1	mg/L	DRH
Selenium	01	7782-49-2	SW6010D	04/09/2025 17:00	04/10/2025 11:52	BLOD		0.0400	0.0500	1	mg/L	DRH
Zinc	01RE1	7440-66-6	SW6010D	04/09/2025 17:00	04/10/2025 12:50	0.366		0.0500	0.0500	5	mg/L	DRH
Volatile Organic Compounds by GCMS												
2-Butanone (MEK)	01	78-93-3	SW8260D	04/09/2025 16:55	04/09/2025 16:55	20800		150	500	50	ug/L	TLH
Acetone	01RE1	67-64-1	SW8260D	04/09/2025 17:18	04/09/2025 17:18	61200		3500	5000	500	ug/L	TLH
Benzene	01	71-43-2	SW8260D	04/09/2025 16:55	04/09/2025 16:55	938		20.0	50.0	50	ug/L	TLH
Ethylbenzene	01	100-41-4	SW8260D	04/09/2025 16:55	04/09/2025 16:55	52.5		20.0	50.0	50	ug/L	TLH
Toluene	01	108-88-3	SW8260D	04/09/2025 16:55	04/09/2025 16:55	51.0		25.0	50.0	50	ug/L	TLH
Xylenes, Total	01	1330-20-7	SW8260D	04/09/2025 16:55	04/09/2025 16:55	87.5	J	50.0	150	50	ug/L	TLH
Tetrahydrofuran	01	109-99-9	SW8260D	04/09/2025 16:55	04/09/2025 16:55	3660		500	500	50	ug/L	TLH
Surr: 1,2-Dichloroethane-d4 (Surr)	*01*	*100 %*	*70-120*	*04/09/2025 16:55*	*04/09/2025 16:55*							
Surr: 4-Bromofluorobenzene (Surr)	*01*	*99.0 %*	*75-120*	*04/09/2025 16:55*	*04/09/2025 16:55*							
Surr: Dibromofluoromethane (Surr)	*01*	*107 %*	*70-130*	*04/09/2025 16:55*	*04/09/2025 16:55*							
Surr: Toluene-d8 (Surr)	*01*	*102 %*	*70-130*	*04/09/2025 16:55*	*04/09/2025 16:55*							
Surr: 1,2-Dichloroethane-d4 (Surr)	*01RE1*	*103 %*	*70-120*	*04/09/2025 17:18*	*04/09/2025 17:18*							
Surr: 4-Bromofluorobenzene (Surr)	*01RE1*	*96.6 %*	*75-120*	*04/09/2025 17:18*	*04/09/2025 17:18*							

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Certificate of Analysis

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

Date Issued: 4/21/2025 5:24:05PM
Work Order: 25D0534

Client Sample ID: **EW-60** **Laboratory Sample ID:** **25D0534-01**

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: Dibromofluoromethane (Surr)	*01RE1*	*110 %*	*70-130*	*04/09/2025 17:18*	*04/09/2025 17:18*							
Surr: Toluene-d8 (Surr)	*01RE1*	*103 %*	*70-130*	*04/09/2025 17:18*	*04/09/2025 17:18*							
Semivolatile Organic Compounds by GCMS												
Anthracene	01	120-12-7	SW8270E	04/08/2025 13:30	04/08/2025 23:33	BLOD		200	400	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	*01*	*%*	*5-136*	*04/08/2025 13:30*	*04/08/2025 23:33*							*DS*
Surr: 2-Fluorobiphenyl (Surr)	*01*	*28.8 %*	*9-117*	*04/08/2025 13:30*	*04/08/2025 23:33*							
Surr: 2-Fluorophenol (Surr)	*01*	*15.8 %*	*5-60*	*04/08/2025 13:30*	*04/08/2025 23:33*							
Surr: Nitrobenzene-d5 (Surr)	*01*	*262 %*	*5-151*	*04/08/2025 13:30*	*04/08/2025 23:33*							*DS*
Surr: Phenol-d5 (Surr)	*01*	*0.400 %*	*5-60*	*04/08/2025 13:30*	*04/08/2025 23:33*							*DS*
Surr: p-Terphenyl-d14 (Surr)	*01*	*24.0 %*	*5-141*	*04/08/2025 13:30*	*04/08/2025 23:33*							

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Certificate of Analysis

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

Date Issued: 4/21/2025 5:24:05PM
Work Order: 25D0534

Client Sample ID: **EW-60** **Laboratory Sample ID:** **25D0534-01**

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	01	7664-41-7	EPA350.1 R2.0	04/17/2025 23:02	04/17/2025 23:02	2440		146	200	2000	mg/L	AAH
BOD	01	E1640606	SM5210B-2016	04/08/2025 15:45	04/08/2025 15:45	33900	H	0.2	2.0	1	mg/L	KKB
COD	01	NA	SM5220D-2011	04/13/2025 22:18	04/13/2025 22:18	47900		6300	10000	1000	mg/L	AAH
Nitrate as N	01	14797-55-8	SM4500-NO3F-2019CALC	04/17/2025 11:00	04/17/2025 19:11	BLOD		0.500	1.25	5	mg/L	CET
Nitrate+Nitrite as N	01	E701177	SM4500-NO3F-2019	04/17/2025 11:00	04/17/2025 19:11	BLOD		0.50	0.50	5	mg/L	BKR
Nitrite as N	01	14797-65-0	SM4500-NO2B-2021	04/08/2025 12:00	04/08/2025 12:00	BLOD	H	0.25	1.25	1	mg/L	CET
Total Recoverable Phenolics	01	NA	SW9065	04/21/2025 15:45	04/21/2025 15:45	43.0		1.50	2.50	1	mg/L	SPH
TKN as N	01RE1	E17148461	EPA351.2 R2.0	04/17/2025 12:18	04/17/2025 12:18	2240		80.0	200	400	mg/L	TEG

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Certificate of Analysis

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

Date Issued: 4/21/2025 5:24:05PM
Work Order: 25D0534

Client Sample ID: **EW-68** **Laboratory Sample ID:** **25D0534-02**

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	02	7440-22-4	SW6010D	04/09/2025 17:00	04/10/2025 11:54	BLOD		0.0050	0.0100	1	mg/L	DRH
Arsenic	02	7440-38-2	SW6010D	04/09/2025 17:00	04/10/2025 11:54	0.217		0.0100	0.0200	1	mg/L	DRH
Barium	02	7440-39-3	SW6010D	04/09/2025 17:00	04/10/2025 11:54	2.95		0.0050	0.0100	1	mg/L	DRH
Cadmium	02	7440-43-9	SW6010D	04/09/2025 17:00	04/10/2025 11:54	BLOD		0.0020	0.0040	1	mg/L	DRH
Chromium	02	7440-47-3	SW6010D	04/09/2025 17:00	04/10/2025 11:54	0.143		0.0080	0.0100	1	mg/L	DRH
Copper	02	7440-50-8	SW6010D	04/09/2025 17:00	04/10/2025 11:54	0.0090	J	0.0080	0.0100	1	mg/L	DRH
Mercury	02	7439-97-6	SW6020B	04/09/2025 17:00	04/16/2025 12:55	BLOD		1.00	1.00	5	ug/L	AB
Nickel	02	7440-02-0	SW6010D	04/09/2025 17:00	04/10/2025 11:54	0.0713		0.0070	0.0100	1	mg/L	DRH
Lead	02	7439-92-1	SW6010D	04/09/2025 17:00	04/10/2025 11:54	0.0207		0.0060	0.0100	1	mg/L	DRH
Selenium	02	7782-49-2	SW6010D	04/09/2025 17:00	04/10/2025 11:54	BLOD		0.0400	0.0500	1	mg/L	DRH
Zinc	02	7440-66-6	SW6010D	04/09/2025 17:00	04/10/2025 11:54	0.0297		0.0100	0.0100	1	mg/L	DRH

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Client Site I.D.: Bristol LFG-EW Monthly Monitoring
Submitted To: Jennifer Robb

Date Issued: 4/21/2025 5:24:05PM
Work Order: 25D0534

Client Sample ID: **EW-68** **Laboratory Sample ID:** **25D0534-02**

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)	02	78-93-3	SW8260D	04/09/2025 17:41	04/09/2025 17:41	28100		150	500	50	ug/L	TLH
Acetone	02RE1	67-64-1	SW8260D	04/09/2025 18:04	04/09/2025 18:04	78000		3500	5000	500	ug/L	TLH
Benzene	02	71-43-2	SW8260D	04/09/2025 17:41	04/09/2025 17:41	1540		20.0	50.0	50	ug/L	TLH
Ethylbenzene	02	100-41-4	SW8260D	04/09/2025 17:41	04/09/2025 17:41	73.5		20.0	50.0	50	ug/L	TLH
Toluene	02	108-88-3	SW8260D	04/09/2025 17:41	04/09/2025 17:41	114		25.0	50.0	50	ug/L	TLH
Xylenes, Total	02	1330-20-7	SW8260D	04/09/2025 17:41	04/09/2025 17:41	144	J	50.0	150	50	ug/L	TLH
Tetrahydrofuran	02	109-99-9	SW8260D	04/09/2025 17:41	04/09/2025 17:41	5920		500	500	50	ug/L	TLH
Surr: 1,2-Dichloroethane-d4 (Surr)	*02*	*98.7 %*	*70-120*	*04/09/2025 17:41*	*04/09/2025 17:41*							
Surr: 4-Bromofluorobenzene (Surr)	*02*	*96.2 %*	*75-120*	*04/09/2025 17:41*	*04/09/2025 17:41*							
Surr: Dibromofluoromethane (Surr)	*02*	*105 %*	*70-130*	*04/09/2025 17:41*	*04/09/2025 17:41*							
Surr: Toluene-d8 (Surr)	*02*	*103 %*	*70-130*	*04/09/2025 17:41*	*04/09/2025 17:41*							
Surr: 1,2-Dichloroethane-d4 (Surr)	*02RE1*	*97.6 %*	*70-120*	*04/09/2025 18:04*	*04/09/2025 18:04*							
Surr: 4-Bromofluorobenzene (Surr)	*02RE1*	*95.6 %*	*75-120*	*04/09/2025 18:04*	*04/09/2025 18:04*							
Surr: Dibromofluoromethane (Surr)	*02RE1*	*105 %*	*70-130*	*04/09/2025 18:04*	*04/09/2025 18:04*							
Surr: Toluene-d8 (Surr)	*02RE1*	*102 %*	*70-130*	*04/09/2025 18:04*	*04/09/2025 18:04*							
Semivolatile Organic Compounds by GCMS												
Anthracene	02	120-12-7	SW8270E	04/08/2025 13:30	04/09/2025 00:10	BLOD		100	200	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	*02*	*29.3 %*	*5-136*	*04/08/2025 13:30*	*04/09/2025 00:10*							
Surr: 2-Fluorobiphenyl (Surr)	*02*	*19.8 %*	*9-117*	*04/08/2025 13:30*	*04/09/2025 00:10*							
Surr: 2-Fluorophenol (Surr)	*02*	*11.3 %*	*5-60*	*04/08/2025 13:30*	*04/09/2025 00:10*							
Surr: Nitrobenzene-d5 (Surr)	*02*	*54.0 %*	*5-151*	*04/08/2025 13:30*	*04/09/2025 00:10*							
Surr: Phenol-d5 (Surr)	*02*	*0.200 %*	*5-60*	*04/08/2025 13:30*	*04/09/2025 00:10*							*DS*
Surr: p-Terphenyl-d14 (Surr)	*02*	*10.2 %*	*5-141*	*04/08/2025 13:30*	*04/09/2025 00:10*							

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Submitted To: Jennifer Robb

Date Issued: 4/21/2025 5:24:05PM
Work Order: 25D0534

Client Sample ID: **EW-68** **Laboratory Sample ID:** **25D0534-02**

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	04/17/2025 23:04	04/17/2025 23:04	2580		146	200	2000	mg/L	AAH
BOD	02	E1640606	SM5210B-2016	04/08/2025 15:45	04/08/2025 15:45	24600	H	0.2	2.0	1	mg/L	KKB
COD	02	NA	SM5220D-2011	04/13/2025 22:18	04/13/2025 22:18	24100		6300	10000	1000	mg/L	AAH
Nitrate as N	02	14797-55-8	SM4500-NO3F-2019CALC	04/17/2025 11:00	04/17/2025 19:12	BLOD		1.00	5.00	100	mg/L	CET
Nitrate+Nitrite as N	02	E701177	SM4500-NO3F-2019	04/17/2025 11:00	04/17/2025 19:12	BLOD		0.50	0.50	5	mg/L	BKR
Nitrite as N	02	14797-65-0	SM4500-NO2B-2021	04/08/2025 12:00	04/08/2025 12:00	7.60	H	1.00	5.00	100	mg/L	CET
Total Recoverable Phenolics	02	NA	SW9065	04/21/2025 15:45	04/21/2025 15:45	35.0		0.750	1.25	1	mg/L	SPH
TKN as N	02	E17148461	EPA351.2 R2.0	04/19/2025 02:15	04/19/2025 02:15	2600		45.9	250	500	mg/L	AAH

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Client Sample ID: **Trip Blank** **Laboratory Sample ID:** **25D0534-03**

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	04/09/2025 13:52	04/09/2025 13:52	BLOD		3.00	10.0	1	ug/L	TLH
Acetone	03	67-64-1	SW8260D	04/09/2025 13:52	04/09/2025 13:52	BLOD		7.00	10.0	1	ug/L	TLH
Benzene	03	71-43-2	SW8260D	04/09/2025 13:52	04/09/2025 13:52	BLOD		0.40	1.00	1	ug/L	TLH
Ethylbenzene	03	100-41-4	SW8260D	04/09/2025 13:52	04/09/2025 13:52	BLOD		0.40	1.00	1	ug/L	TLH
Toluene	03	108-88-3	SW8260D	04/09/2025 13:52	04/09/2025 13:52	BLOD		0.50	1.00	1	ug/L	TLH
Xylenes, Total	03	1330-20-7	SW8260D	04/09/2025 13:52	04/09/2025 13:52	BLOD		1.00	3.00	1	ug/L	TLH
Tetrahydrofuran	03	109-99-9	SW8260D	04/09/2025 13:52	04/09/2025 13:52	BLOD		10.0	10.0	1	ug/L	TLH
Surr: 1,2-Dichloroethane-d4 (Surr)	*03*	*103 %*	*70-120*	*04/09/2025 13:52*	*04/09/2025 13:52*							
Surr: 4-Bromofluorobenzene (Surr)	*03*	*96.7 %*	*75-120*	*04/09/2025 13:52*	*04/09/2025 13:52*							
Surr: Dibromofluoromethane (Surr)	*03*	*109 %*	*70-130*	*04/09/2025 13:52*	*04/09/2025 13:52*							
Surr: Toluene-d8 (Surr)	*03*	*102 %*	*70-130*	*04/09/2025 13:52*	*04/09/2025 13:52*							

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

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BID0461 - EPA200.2R2.8/SW3005A-ICP										
Blank (BID0461-BLK1)				Prepared: 04/09/2025 Analyzed: 04/10/2025						
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 (BID0461-BS1)				Prepared: 04/09/2025 Analyzed: 04/10/2025						
Arsenic	0.490	0.0200	mg/L	0.500		97.9	80-120			
Barium	0.492	0.0100	mg/L	0.500		98.4	80-120			
Cadmium	0.496	0.0040	mg/L	0.500		99.2	80-120			
Chromium	0.497	0.0100	mg/L	0.500		99.4	80-120			
Copper	0.495	0.0100	mg/L	0.500		99.1	80-120			
Lead	0.496	0.0100	mg/L	0.500		99.1	80-120			
Nickel	0.4968	0.0100	mg/L	0.500		99.4	80-120			
Selenium	0.483	0.0500	mg/L	0.500		96.5	80-120			
Silver	0.103	0.0100	mg/L	0.100		103	80-120			*E*
Zinc	0.479	0.0100	mg/L	0.500		95.7	80-120			
Matrix Spike (BID0461-MS1)	**Source: 25D0805-01**			Prepared: 04/09/2025 Analyzed: 04/10/2025						
Arsenic	0.500	0.0200	mg/L	0.500	BLOD	100	75-125			
Barium	0.643	0.0100	mg/L	0.500	0.150	98.5	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 BID0461 - EPA200.2R2.8/SW3005A-ICP										
Matrix Spike (BID0461-MS1)	**Source: 25D0805-01**			Prepared: 04/09/2025 Analyzed: 04/10/2025						
Cadmium	0.494	0.0040	mg/L	0.500	BLOD	98.7	75-125			
Chromium	0.508	0.0100	mg/L	0.500	BLOD	102	75-125			
Copper	0.503	0.0100	mg/L	0.500	BLOD	101	75-125			
Lead	0.492	0.0100	mg/L	0.500	BLOD	98.3	75-125			
Nickel	0.4952	0.0100	mg/L	0.500	BLOD	99.0	75-125			
Selenium	0.497	0.0500	mg/L	0.500	BLOD	99.5	75-125			
Silver	0.102	0.0100	mg/L	0.100	BLOD	102	75-125			*E*
Zinc	0.549	0.0100	mg/L	0.500	0.0363	102	75-125			
Matrix Spike Dup (BID0461-MSD1)	**Source: 25D0805-01**			Prepared: 04/09/2025 Analyzed: 04/10/2025						
Arsenic	0.486	0.0200	mg/L	0.500	BLOD	97.2	75-125	2.84	20	
Barium	0.634	0.0100	mg/L	0.500	0.150	96.7	75-125	1.39	20	
Cadmium	0.479	0.0040	mg/L	0.500	BLOD	95.8	75-125	2.98	20	
Chromium	0.496	0.0100	mg/L	0.500	BLOD	99.2	75-125	2.51	20	
Copper	0.491	0.0100	mg/L	0.500	BLOD	98.1	75-125	2.42	20	
Lead	0.478	0.0100	mg/L	0.500	BLOD	95.6	75-125	2.78	20	
Nickel	0.4801	0.0100	mg/L	0.500	BLOD	96.0	75-125	3.10	20	
Selenium	0.483	0.0500	mg/L	0.500	BLOD	96.6	75-125	2.88	20	
Silver	0.0996	0.0100	mg/L	0.100	BLOD	99.6	75-125	2.38	20	
Zinc	0.531	0.0100	mg/L	0.500	0.0363	99.0	75-125	3.20	20	
Batch BID0462 - EPA200.2R2.8/SW3005A-ICPMS										
Blank (BID0462-BLK1)				Prepared: 04/09/2025 Analyzed: 04/16/2025						
Mercury	ND	0.200	ug/L							
LCS (BID0462-BS1)				Prepared: 04/09/2025 Analyzed: 04/16/2025						

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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 BID0462 - EPA200.2R2.8/SW3005A-ICPMS										
LCS (BID0462-BS1)				Prepared: 04/09/2025 Analyzed: 04/16/2025						
Mercury	0.862	0.200	ug/L	1.00		86.2	80-120			
Matrix Spike (BID0462-MS1)		**Source: 25D0604-01**		Prepared: 04/09/2025 Analyzed: 04/16/2025						
Mercury	0.903	0.200	ug/L	1.00	BLOD	90.3	70-130			
Matrix Spike (BID0462-MS2)		**Source: 25D0784-01**		Prepared: 04/09/2025 Analyzed: 04/16/2025						
Mercury	0.887	0.200	ug/L	1.00	BLOD	88.7	70-130			
Matrix Spike Dup (BID0462-MSD1)		**Source: 25D0604-01**		Prepared: 04/09/2025 Analyzed: 04/16/2025						
Mercury	0.900	0.200	ug/L	1.00	BLOD	90.0	70-130	0.283	20	
Matrix Spike Dup (BID0462-MSD2)		**Source: 25D0784-01**		Prepared: 04/09/2025 Analyzed: 04/16/2025						
Mercury	0.865	0.200	ug/L	1.00	BLOD	86.5	70-130	2.43	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 BID0489 - SW5030B-MS										
Blank (BID0489-BLK1)				Prepared & Analyzed: 04/09/2025						
2-Butanone (MEK)	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Benzene	ND	1.00	ug/L							
Ethylbenzene	ND	1.00	ug/L							
Toluene	ND	1.00	ug/L							
Xylenes, Total	ND	3.00	ug/L							
Surr: 1,2-Dichloroethane-d4 (Surr)	*49.7*		ug/L	*50.0*		*99.5*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*48.5*		ug/L	*50.0*		*97.0*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*53.6*		ug/L	*50.0*		*107*	*70-130*			
Surr: Toluene-d8 (Surr)	*51.1*		ug/L	*50.0*		*102*	*70-130*			
LCS (BID0489-BS1)				Prepared & Analyzed: 04/09/2025						
1,1,1,2-Tetrachloroethane	61.9		ug/L	50.0		124	80-130			
1,1,1-Trichloroethane	59.8		ug/L	50.0		120	65-130			
1,1,2,2-Tetrachloroethane	56.0		ug/L	50.0		112	65-130			
1,1,2-Trichloroethane	57.8		ug/L	50.0		116	75-125			
1,1-Dichloroethane	57.2		ug/L	50.0		114	70-135			
1,1-Dichloroethylene	60.0		ug/L	50.0		120	70-130			
1,1-Dichloropropene	62.8		ug/L	50.0		126	75-135			
1,2,3-Trichlorobenzene	70.4		ug/L	50.0		141	55-140			*L*
1,2,3-Trichloropropane	56.8		ug/L	50.0		114	75-125			
1,2,4-Trichlorobenzene	68.9		ug/L	50.0		138	65-135			*L*
1,2,4-Trimethylbenzene	60.5		ug/L	50.0		121	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	46.5		ug/L	50.0		92.9	50-130			
1,2-Dibromoethane (EDB)	58.4		ug/L	50.0		117	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 BID0489 - SW5030B-MS										
LCS (BID0489-BS1)				Prepared & Analyzed: 04/09/2025						
1,2-Dichlorobenzene	56.5		ug/L	50.0		113	70-120			
1,2-Dichloroethane	53.0		ug/L	50.0		106	70-130			
1,2-Dichloropropane	57.9		ug/L	50.0		116	75-125			
1,3,5-Trimethylbenzene	60.2		ug/L	50.0		120	75-125			
1,3-Dichlorobenzene	58.1		ug/L	50.0		116	75-125			
1,3-Dichloropropane	59.0		ug/L	50.0		118	75-125			
1,4-Dichlorobenzene	56.8		ug/L	50.0		114	75-125			
2,2-Dichloropropane	60.1		ug/L	50.0		120	70-135			
2-Butanone (MEK)	51.2		ug/L	50.0		102	30-150			
2-Chlorotoluene	57.1		ug/L	50.0		114	75-125			
2-Hexanone (MBK)	56.9		ug/L	50.0		114	55-130			
4-Chlorotoluene	57.4		ug/L	50.0		115	75-130			
4-Isopropyltoluene	63.0		ug/L	50.0		126	75-130			
4-Methyl-2-pentanone (MIBK)	61.1		ug/L	50.0		122	60-135			
Acetone	48.6		ug/L	50.0		97.1	40-140			
Benzene	60.0		ug/L	50.0		120	80-120			*L*
Bromobenzene	59.1		ug/L	50.0		118	75-125			
Bromochloromethane	60.4		ug/L	50.0		121	65-130			
Bromodichloromethane	58.3		ug/L	50.0		117	75-120			
Bromoform	49.9		ug/L	50.0		99.8	70-130			
Bromomethane	56.7		ug/L	50.0		113	30-145			
Carbon disulfide	52.1		ug/L	50.0		104	35-160			
Carbon tetrachloride	63.0		ug/L	50.0		126	65-140			
Chlorobenzene	57.4		ug/L	50.0		115	80-120			
Chloroethane	57.3		ug/L	50.0		115	60-135			

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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 BID0489 - SW5030B-MS										
LCS (BID0489-BS1)				Prepared & Analyzed: 04/09/2025						
Chloroform	52.2		ug/L	50.0		104	65-135			
Chloromethane	55.2		ug/L	50.0		110	40-125			
cis-1,2-Dichloroethylene	57.7		ug/L	50.0		115	70-125			
cis-1,3-Dichloropropene	63.3		ug/L	50.0		127	70-130			
Dibromochloromethane	51.1		ug/L	50.0		102	60-135			
Dibromomethane	55.6		ug/L	50.0		111	75-125			
Dichlorodifluoromethane	55.1		ug/L	50.0		110	30-155			
Ethylbenzene	57.0		ug/L	50.0		114	75-125			
Hexachlorobutadiene	62.7		ug/L	50.0		125	50-140			
Isopropylbenzene	51.8		ug/L	50.0		104	75-125			
m+p-Xylenes	114		ug/L	100		114	75-130			
Methylene chloride	52.2		ug/L	50.0		104	55-140			
Methyl-t-butyl ether (MTBE)	53.6	1.00	ug/L				65-125			
Naphthalene	68.3		ug/L	50.0		137	55-140			
n-Butylbenzene	61.9		ug/L	50.0		124	70-135			
n-Propylbenzene	59.3		ug/L	50.0		119	70-130			
o-Xylene	58.1		ug/L	50.0		116	80-120			
sec-Butylbenzene	62.1		ug/L	50.0		124	70-125			
Styrene	58.6		ug/L	50.0		117	65-135			
tert-Butylbenzene	57.8		ug/L	50.0		116	70-130			
Tetrachloroethylene (PCE)	86.3		ug/L	50.0		173	45-150			*L*
Toluene	56.5		ug/L	50.0		113	75-120			
trans-1,2-Dichloroethylene	57.8		ug/L	50.0		116	60-140			
trans-1,3-Dichloropropene	52.3		ug/L	50.0		105	55-140			
Trichloroethylene	62.4		ug/L	50.0		125	70-125			

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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 BID0489 - SW5030B-MS										
LCS (BID0489-BS1)				Prepared & Analyzed: 04/09/2025						
Trichlorofluoromethane	68.8		ug/L	50.0		138	60-145			
Vinyl chloride	48.9		ug/L	50.0		97.9	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	*47.0*		ug/L	*50.0*		*94.0*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*48.4*		ug/L	*50.0*		*96.9*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*51.6*		ug/L	*50.0*		*103*	*70-130*			
Surr: Toluene-d8 (Surr)	*49.1*		ug/L	*50.0*		*98.3*	*70-130*			
Matrix Spike (BID0489-MS1)	**Source: 25D0525-01**			Prepared & Analyzed: 04/09/2025						
1,1,1,2-Tetrachloroethane	61.1		ug/L	50.0	BLOD	122	80-130			
1,1,1-Trichloroethane	65.8		ug/L	50.0	BLOD	132	65-130			*M*
1,1,2,2-Tetrachloroethane	57.2		ug/L	50.0	BLOD	114	65-130			
1,1,2-Trichloroethane	54.7		ug/L	50.0	BLOD	109	75-125			
1,1-Dichloroethane	61.9		ug/L	50.0	BLOD	124	70-135			
1,1-Dichloroethylene	63.6		ug/L	50.0	BLOD	127	50-145			
1,1-Dichloropropene	68.3		ug/L	50.0	BLOD	137	75-135			*M*
1,2,3-Trichlorobenzene	68.1		ug/L	50.0	BLOD	136	55-140			
1,2,3-Trichloropropane	55.5		ug/L	50.0	BLOD	111	75-125			
1,2,4-Trichlorobenzene	65.0		ug/L	50.0	BLOD	130	65-135			
1,2,4-Trimethylbenzene	56.7		ug/L	50.0	2.40	109	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	40.8		ug/L	50.0	BLOD	81.5	50-130			
1,2-Dibromoethane (EDB)	55.3		ug/L	50.0	BLOD	111	80-120			
1,2-Dichlorobenzene	54.3		ug/L	50.0	BLOD	109	70-120			
1,2-Dichloroethane	57.6		ug/L	50.0	BLOD	115	70-130			
1,2-Dichloropropane	55.9		ug/L	50.0	BLOD	112	75-125			
1,3,5-Trimethylbenzene	56.5		ug/L	50.0	BLOD	113	75-124			

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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 BID0489 - SW5030B-MS										
Matrix Spike (BID0489-MS1)	**Source: 25D0525-01**			Prepared & Analyzed: 04/09/2025						
1,3-Dichlorobenzene	56.2		ug/L	50.0	BLOD	112	75-125			
1,3-Dichloropropane	57.0		ug/L	50.0	BLOD	114	75-125			
1,4-Dichlorobenzene	53.5		ug/L	50.0	BLOD	107	75-125			
2,2-Dichloropropane	66.5		ug/L	50.0	BLOD	133	70-135			
2-Butanone (MEK)	53.5		ug/L	50.0	BLOD	107	30-150			
2-Chlorotoluene	52.6		ug/L	50.0	BLOD	105	75-125			
2-Hexanone (MBK)	53.3		ug/L	50.0	BLOD	107	55-130			
4-Chlorotoluene	53.8		ug/L	50.0	BLOD	108	75-130			
4-Isopropyltoluene	59.2		ug/L	50.0	BLOD	118	75-130			
4-Methyl-2-pentanone (MIBK)	55.0		ug/L	50.0	BLOD	110	60-135			
Acetone	45.4		ug/L	50.0	42.0	6.76	40-140			*M*
Benzene	57.6		ug/L	50.0	BLOD	115	80-120			
Bromobenzene	57.6		ug/L	50.0	BLOD	115	75-125			
Bromochloromethane	65.0		ug/L	50.0	BLOD	130	65-130			*M*
Bromodichloromethane	55.5		ug/L	50.0	BLOD	111	75-136			
Bromoform	48.2		ug/L	50.0	BLOD	96.4	70-130			
Bromomethane	57.5		ug/L	50.0	BLOD	115	30-145			
Carbon disulfide	56.4		ug/L	50.0	5.80	101	35-160			
Carbon tetrachloride	60.3		ug/L	50.0	BLOD	121	65-140			
Chlorobenzene	55.0		ug/L	50.0	BLOD	110	80-120			
Chloroethane	60.5		ug/L	50.0	BLOD	121	60-135			
Chloroform	57.2		ug/L	50.0	BLOD	114	65-135			
Chloromethane	56.9		ug/L	50.0	BLOD	114	40-125			
cis-1,2-Dichloroethylene	62.1		ug/L	50.0	BLOD	124	70-125			
cis-1,3-Dichloropropene	61.0		ug/L	50.0	BLOD	122	47-136			

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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 BID0489 - SW5030B-MS										
Matrix Spike (BID0489-MS1)	**Source: 25D0525-01**			Prepared & Analyzed: 04/09/2025						
Dibromochloromethane	48.7		ug/L	50.0	BLOD	97.5	60-135			
Dibromomethane	53.0		ug/L	50.0	BLOD	106	75-125			
Dichlorodifluoromethane	58.3		ug/L	50.0	BLOD	117	30-155			
Ethylbenzene	55.0		ug/L	50.0	BLOD	110	75-125			
Hexachlorobutadiene	61.3		ug/L	50.0	BLOD	123	50-140			
Isopropylbenzene	49.6		ug/L	50.0	BLOD	99.3	75-125			
m+p-Xylenes	110		ug/L	100	5.60	105	75-130			
Methylene chloride	57.2		ug/L	50.0	91.0	-67.6	55-140			*M*
Methyl-t-butyl ether (MTBE)	57.9	1.00	ug/L		BLOD		65-125			
Naphthalene	67.5		ug/L	50.0	BLOD	135	55-140			
n-Butylbenzene	58.6		ug/L	50.0	BLOD	117	70-135			
n-Propylbenzene	55.3		ug/L	50.0	BLOD	111	70-130			
o-Xylene	57.0		ug/L	50.0	3.00	108	80-120			
sec-Butylbenzene	57.7		ug/L	50.0	BLOD	115	70-125			
Styrene	56.8		ug/L	50.0	BLOD	114	65-135			
tert-Butylbenzene	54.5		ug/L	50.0	BLOD	109	70-130			
Tetrachloroethylene (PCE)	84.3		ug/L	50.0	32.6	103	51-231			
Toluene	53.5		ug/L	50.0	BLOD	107	75-120			
trans-1,2-Dichloroethylene	62.5		ug/L	50.0	BLOD	125	60-140			
trans-1,3-Dichloropropene	50.0		ug/L	50.0	BLOD	99.9	55-140			
Trichloroethylene	59.7		ug/L	50.0	BLOD	119	70-125			
Trichlorofluoromethane	72.8		ug/L	50.0	BLOD	146	60-145			*M*
Vinyl chloride	51.2		ug/L	50.0	BLOD	102	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	*54.8*		ug/L	*50.0*		*110*	*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 BID0489 - SW5030B-MS										
Matrix Spike (BID0489-MS1)	**Source: 25D0525-01**			Prepared & Analyzed: 04/09/2025						
Surr: 4-Bromofluorobenzene (Surr)	*50.3*		ug/L	*50.0*		*101*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*59.2*		ug/L	*50.0*		*118*	*70-130*			
Surr: Toluene-d8 (Surr)	*49.5*		ug/L	*50.0*		*99.0*	*70-130*			
Matrix Spike Dup (BID0489-MSD1)	**Source: 25D0525-01**			Prepared & Analyzed: 04/09/2025						
1,1,1,2-Tetrachloroethane	63.0		ug/L	50.0	BLOD	126	80-130	3.01	30	
1,1,1-Trichloroethane	68.4		ug/L	50.0	BLOD	137	65-130	3.95	30	*M*
1,1,2,2-Tetrachloroethane	56.8		ug/L	50.0	BLOD	114	65-130	0.666	30	
1,1,2-Trichloroethane	55.4		ug/L	50.0	BLOD	111	75-125	1.18	30	
1,1-Dichloroethane	64.4		ug/L	50.0	BLOD	129	70-135	3.93	30	
1,1-Dichloroethylene	66.9		ug/L	50.0	BLOD	134	50-145	5.00	30	
1,1-Dichloropropene	70.7		ug/L	50.0	BLOD	141	75-135	3.42	30	*M*
1,2,3-Trichlorobenzene	67.9		ug/L	50.0	BLOD	136	55-140	0.324	30	
1,2,3-Trichloropropane	56.9		ug/L	50.0	BLOD	114	75-125	2.60	30	
1,2,4-Trichlorobenzene	65.9		ug/L	50.0	BLOD	132	65-135	1.36	30	
1,2,4-Trimethylbenzene	57.7		ug/L	50.0	2.40	111	75-130	1.64	30	
1,2-Dibromo-3-chloropropane (DBCP)	41.2		ug/L	50.0	BLOD	82.3	50-130	1.00	30	
1,2-Dibromoethane (EDB)	57.0		ug/L	50.0	BLOD	114	80-120	3.15	30	
1,2-Dichlorobenzene	54.5		ug/L	50.0	BLOD	109	70-120	0.331	30	
1,2-Dichloroethane	60.7		ug/L	50.0	BLOD	121	70-130	5.24	30	
1,2-Dichloropropane	56.4		ug/L	50.0	BLOD	113	75-125	0.855	30	
1,3,5-Trimethylbenzene	57.1		ug/L	50.0	BLOD	114	75-124	1.13	30	
1,3-Dichlorobenzene	56.6		ug/L	50.0	BLOD	113	75-125	0.834	30	
1,3-Dichloropropane	57.9		ug/L	50.0	BLOD	116	75-125	1.57	30	
1,4-Dichlorobenzene	54.0		ug/L	50.0	BLOD	108	75-125	0.875	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 BID0489 - SW5030B-MS										
Matrix Spike Dup (BID0489-MSD1)	**Source: 25D0525-01**			Prepared & Analyzed: 04/09/2025						
2,2-Dichloropropane	68.9		ug/L	50.0	BLOD	138	70-135	3.55	30	*M*
2-Butanone (MEK)	55.8		ug/L	50.0	BLOD	112	30-150		30	
2-Chlorotoluene	53.6		ug/L	50.0	BLOD	107	75-125	1.90	30	
2-Hexanone (MBK)	53.7		ug/L	50.0	BLOD	107	55-130	0.673	30	
4-Chlorotoluene	54.5		ug/L	50.0	BLOD	109	75-130	1.35	30	
4-Isopropyltoluene	59.6		ug/L	50.0	BLOD	119	75-130	0.825	30	
4-Methyl-2-pentanone (MIBK)	56.3		ug/L	50.0	BLOD	113	60-135	2.39	30	
Acetone	48.5		ug/L	50.0	42.0	13.1	40-140		30	*M*
Benzene	57.9		ug/L	50.0	BLOD	116	80-120	0.485	30	
Bromobenzene	58.5		ug/L	50.0	BLOD	117	75-125	1.59	30	
Bromochloromethane	68.4		ug/L	50.0	BLOD	137	65-130	5.01	30	*M*
Bromodichloromethane	56.2		ug/L	50.0	BLOD	112	75-136	1.27	30	
Bromoform	49.0		ug/L	50.0	BLOD	98.1	70-130	1.71	30	
Bromomethane	61.0		ug/L	50.0	BLOD	122	30-145	5.88	30	
Carbon disulfide	57.3		ug/L	50.0	5.80	103	35-160		30	
Carbon tetrachloride	60.6		ug/L	50.0	BLOD	121	65-140	0.513	30	
Chlorobenzene	55.0		ug/L	50.0	BLOD	110	80-120	0.0545	30	
Chloroethane	62.9		ug/L	50.0	BLOD	126	60-135	4.02	30	
Chloroform	59.9		ug/L	50.0	BLOD	120	65-135	4.54	30	
Chloromethane	59.2		ug/L	50.0	BLOD	118	40-125	3.93	30	
cis-1,2-Dichloroethylene	64.5		ug/L	50.0	BLOD	129	70-125	3.84	30	*M*
cis-1,3-Dichloropropene	62.0		ug/L	50.0	BLOD	124	47-136	1.58	30	
Dibromochloromethane	49.8		ug/L	50.0	BLOD	99.6	60-135	2.17	30	
Dibromomethane	53.0		ug/L	50.0	BLOD	106	75-125	0.151	30	
Dichlorodifluoromethane	60.6		ug/L	50.0	BLOD	121	30-155	3.92	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 BID0489 - SW5030B-MS										
Matrix Spike Dup (BID0489-MSD1)	**Source: 25D0525-01**			Prepared & Analyzed: 04/09/2025						
Ethylbenzene	55.5		ug/L	50.0	BLOD	111	75-125	0.960	30	
Hexachlorobutadiene	61.6		ug/L	50.0	BLOD	123	50-140	0.455	30	
Isopropylbenzene	50.7		ug/L	50.0	BLOD	101	75-125	2.15	30	
m+p-Xylenes	111		ug/L	100	5.60	106	75-130	0.732	30	
Methylene chloride	59.4		ug/L	50.0	91.0	-63.1	55-140		30	*M*
Methyl-t-butyl ether (MTBE)	60.6	1.00	ug/L		BLOD		65-125	4.51	30	
Naphthalene	70.2		ug/L	50.0	BLOD	140	55-140	3.81	30	*M*
n-Butylbenzene	58.8		ug/L	50.0	BLOD	118	70-135	0.392	30	
n-Propylbenzene	55.1		ug/L	50.0	BLOD	110	70-130	0.489	30	
o-Xylene	57.0		ug/L	50.0	3.00	108	80-120	0.158	30	
sec-Butylbenzene	58.5		ug/L	50.0	BLOD	117	70-125	1.27	30	
Styrene	57.4		ug/L	50.0	BLOD	115	65-135	1.03	30	
tert-Butylbenzene	54.6		ug/L	50.0	BLOD	109	70-130	0.128	30	
Tetrachloroethylene (PCE)	84.6		ug/L	50.0	32.6	104	51-231	0.391	30	
Toluene	54.2		ug/L	50.0	BLOD	108	75-120	1.26	30	
trans-1,2-Dichloroethylene	65.1		ug/L	50.0	BLOD	130	60-140	4.06	30	
trans-1,3-Dichloropropene	50.5		ug/L	50.0	BLOD	101	55-140	0.996	30	
Trichloroethylene	59.8		ug/L	50.0	BLOD	120	70-125	0.301	30	
Trichlorofluoromethane	76.2		ug/L	50.0	BLOD	152	60-145	4.60	30	*M*
Vinyl chloride	53.7		ug/L	50.0	BLOD	107	50-145	4.63	30	
Surr: 1,2-Dichloroethane-d4 (Surr)	*55.8*		ug/L	*50.0*		*112*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*50.5*		ug/L	*50.0*		*101*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*61.1*		ug/L	*50.0*		*122*	*70-130*			
Surr: Toluene-d8 (Surr)	*49.3*		ug/L	*50.0*		*98.6*	*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 BID0399 - SW3510C/EPA600-MS										
Blank (BID0399-BLK1)				Prepared & Analyzed: 04/08/2025						
Anthracene	ND	10.0	ug/L							
Surr: 2,4,6-Tribromophenol (Surr)	*50.2*		ug/L	*100*		*50.2*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*21.7*		ug/L	*50.0*		*43.5*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*21.8*		ug/L	*100*		*21.8*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*24.7*		ug/L	*50.0*		*49.5*	*5-151*			
Surr: Phenol-d5 (Surr)	*20.8*		ug/L	*100*		*20.8*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*30.7*		ug/L	*50.0*		*61.4*	*5-141*			
LCS (BID0399-BS1)				Prepared & Analyzed: 04/08/2025						
1,2,4-Trichlorobenzene	25.2	10.0	ug/L	50.0		50.4	57-130			*L*
1,2-Dichlorobenzene	24.7	10.0	ug/L	50.0		49.4	22-115			
1,3-Dichlorobenzene	24.3	10.0	ug/L	50.0		48.6	22-112			
1,4-Dichlorobenzene	23.2	10.0	ug/L	50.0		46.3	13-112			
2,4,6-Trichlorophenol	27.3	10.0	ug/L	50.0		54.6	52-129			
2,4-Dichlorophenol	28.9	10.0	ug/L	50.0		57.8	53-122			
2,4-Dimethylphenol	28.3	5.00	ug/L	50.0		56.6	42-120			
2,4-Dinitrophenol	49.9	50.0	ug/L	50.0		99.8	48-127			
2,4-Dinitrotoluene	38.8	10.0	ug/L	50.0		77.6	10-173			
2,6-Dinitrotoluene	33.7	10.0	ug/L	50.0		67.3	68-137			*L*
2-Chloronaphthalene	26.8	10.0	ug/L	50.0		53.6	65-120			*L*
2-Chlorophenol	27.3	10.0	ug/L	50.0		54.7	36-120			
2-Nitrophenol	36.4	10.0	ug/L	50.0		72.8	45-167			
3,3'-Dichlorobenzidine	24.5	10.0	ug/L	50.0		48.9	10-213			
4,6-Dinitro-2-methylphenol	54.1	50.0	ug/L	50.0		108	53-130			
4-Bromophenyl phenyl ether	26.9	10.0	ug/L	50.0		53.8	65-120			*L*

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Submitted To: Jennifer Robb

Date Issued: 4/21/2025 5:24:05PM
Work Order: 25D0534

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 BID0399 - SW3510C/EPA600-MS										
LCS (BID0399-BS1)				Prepared & Analyzed: 04/08/2025						
4-Chlorophenyl phenyl ether	28.8	10.0	ug/L	50.0		57.5	38-145			
4-Nitrophenol	12.3	50.0	ug/L	50.0		24.7	13-129			
Acenaphthene	28.7	10.0	ug/L	50.0		57.4	60-132			*L*
Acenaphthylene	30.2	10.0	ug/L	50.0		60.5	54-126			
Acetophenone	28.4	20.0	ug/L	50.0		56.8	0-200			
Anthracene	28.0	10.0	ug/L	50.0		55.9	43-120			
Benzo (a) anthracene	30.8	10.0	ug/L	50.0		61.6	42-133			
Benzo (a) pyrene	33.6	10.0	ug/L	50.0		67.1	32-148			
Benzo (b) fluoranthene	37.6	10.0	ug/L	50.0		75.2	42-140			
Benzo (g,h,i) perylene	36.1	10.0	ug/L	50.0		72.3	10-195			
Benzo (k) fluoranthene	29.1	10.0	ug/L	50.0		58.2	25-146			
bis (2-Chloroethoxy) methane	32.1	10.0	ug/L	50.0		64.2	49-165			
bis (2-Chloroethyl) ether	32.1	10.0	ug/L	50.0		64.3	43-126			
2,2'-Oxybis (1-chloropropane)	30.5	10.0	ug/L	50.0		61.0	63-139			*L*
bis (2-Ethylhexyl) phthalate	40.6	10.0	ug/L	50.0		81.3	29-137			
Butyl benzyl phthalate	47.8	10.0	ug/L	50.0		95.5	10-140			
Chrysene	31.3	10.0	ug/L	50.0		62.6	44-140			
Dibenz (a,h) anthracene	37.3	10.0	ug/L	50.0		74.6	10-200			
Diethyl phthalate	28.9	10.0	ug/L	50.0		57.8	10-120			
Dimethyl phthalate	29.5	10.0	ug/L	50.0		58.9	10-120			
Di-n-butyl phthalate	30.0	10.0	ug/L	50.0		60.0	10-120			
Di-n-octyl phthalate	43.4	10.0	ug/L	50.0		86.8	19-132			
Fluoranthene	29.2	10.0	ug/L	50.0		58.4	43-121			
Fluorene	28.8	10.0	ug/L	50.0		57.7	70-120			*L*
Hexachlorobenzene	26.0	1.00	ug/L	50.0		52.1	10-142			

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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 BID0399 - SW3510C/EPA600-MS										
LCS (BID0399-BS1)				Prepared & Analyzed: 04/08/2025						
Hexachlorobutadiene	25.7	10.0	ug/L	50.0		51.4	38-120			
Hexachlorocyclopentadiene	25.1	10.0	ug/L	50.0		50.3	10-76			
Hexachloroethane	24.6	10.0	ug/L	50.0		49.2	55-120			*L*
Indeno (1,2,3-cd) pyrene	33.7	10.0	ug/L	50.0		67.4	10-151			
Isophorone	22.7	10.0	ug/L	50.0		45.4	47-180			*L*
Naphthalene	23.6	5.00	ug/L	50.0		47.1	36-120			
Nitrobenzene	30.4	10.0	ug/L	50.0		60.7	54-158			
n-Nitrosodimethylamine	15.1	10.0	ug/L	50.0		30.2	10-85			
n-Nitrosodi-n-propylamine	25.8	10.0	ug/L	50.0		51.5	14-198			
n-Nitrosodiphenylamine	25.1	10.0	ug/L	50.0		50.2	12-97			
p-Chloro-m-cresol	29.1	10.0	ug/L	50.0		58.1	10-142			
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L				0-200			
Pentachlorophenol	34.2	20.0	ug/L	50.0		68.3	38-152			
Phenanthrene	30.2	10.0	ug/L	50.0		60.3	65-120			*L*
Phenol	13.4	10.0	ug/L	50.5		26.5	17-120			
Pyrene	37.6	10.0	ug/L	50.0		75.2	70-120			
Pyridine	22.0	10.0	ug/L	50.0		44.0	10-103			
Surr: 2,4,6-Tribromophenol (Surr)	*58.8*		ug/L	*100*		*58.8*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*27.0*		ug/L	*50.0*		*54.1*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*37.5*		ug/L	*100*		*37.5*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*31.1*		ug/L	*50.0*		*62.2*	*5-151*			
Surr: Phenol-d5 (Surr)	*25.0*		ug/L	*100*		*25.0*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*34.3*		ug/L	*50.0*		*68.6*	*5-141*			
Matrix Spike (BID0399-MS1)		**Source: 25D0126-02**		Prepared & Analyzed: 04/08/2025						

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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 BID0399 - SW3510C/EPA600-MS										
Matrix Spike (BID0399-MS1)	**Source: 25D0126-02**			Prepared & Analyzed: 04/08/2025						
1,2,4-Trichlorobenzene	25.9	10.0	ug/L	46.7	BLOD	55.4	44-142			
1,2-Dichlorobenzene	24.9	10.0	ug/L	46.7	BLOD	53.3	22-115			
1,3-Dichlorobenzene	24.6	10.0	ug/L	46.7	BLOD	52.6	22-112			
1,4-Dichlorobenzene	23.8	10.0	ug/L	46.7	BLOD	50.9	13-112			
2,4,6-Trichlorophenol	28.0	10.0	ug/L	46.7	BLOD	59.8	37-144			
2,4-Dichlorophenol	29.0	10.0	ug/L	46.7	BLOD	62.1	39-135			
2,4-Dimethylphenol	27.6	5.00	ug/L	46.7	BLOD	59.1	32-120			
2,4-Dinitrophenol	63.5	50.0	ug/L	46.7	BLOD	136	39-139			
2,4-Dinitrotoluene	42.4	10.0	ug/L	46.7	BLOD	90.8	10-191			
2,6-Dinitrotoluene	37.6	10.0	ug/L	46.7	BLOD	80.4	50-158			
2-Chloronaphthalene	27.1	10.0	ug/L	46.7	BLOD	58.0	60-120			*M*
2-Chlorophenol	27.2	10.0	ug/L	46.7	BLOD	58.2	23-134			
2-Nitrophenol	36.9	10.0	ug/L	46.7	BLOD	79.0	29-182			
3,3'-Dichlorobenzidine	23.6	10.0	ug/L	46.7	BLOD	50.5	10-262			
4,6-Dinitro-2-methylphenol	61.9	50.0	ug/L	46.7	BLOD	133	10-181			
4-Bromophenyl phenyl ether	28.1	10.0	ug/L	46.7	BLOD	60.2	53-127			
4-Chlorophenyl phenyl ether	30.6	10.0	ug/L	46.7	BLOD	65.4	25-158			
4-Nitrophenol	13.8	50.0	ug/L	46.7	BLOD	29.6	10-132			
Acenaphthene	29.4	10.0	ug/L	46.7	BLOD	63.0	47-145			
Acenaphthylene	31.5	10.0	ug/L	46.7	BLOD	67.5	33-145			
Acetophenone	27.1	20.0	ug/L	46.7	BLOD	58.0	0-200			
Anthracene	29.2	10.0	ug/L	46.7	BLOD	62.5	27-133			
Benzo (a) anthracene	31.9	10.0	ug/L	46.7	BLOD	68.3	33-143			
Benzo (a) pyrene	34.7	10.0	ug/L	46.7	BLOD	74.3	17-163			
Benzo (b) fluoranthene	34.5	10.0	ug/L	46.7	BLOD	73.7	24-159			

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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 BID0399 - SW3510C/EPA600-MS										
Matrix Spike (BID0399-MS1)	**Source: 25D0126-02**			Prepared & Analyzed: 04/08/2025						
Benzo (g,h,i) perylene	36.6	10.0	ug/L	46.7	BLOD	78.3	10-219			
Benzo (k) fluoranthene	30.1	10.0	ug/L	46.7	BLOD	64.3	11-162			
bis (2-Chloroethoxy) methane	32.0	10.0	ug/L	46.7	BLOD	68.6	33-184			
bis (2-Chloroethyl) ether	32.4	10.0	ug/L	46.7	BLOD	69.3	12-158			
2,2'-Oxybis (1-chloropropane)	29.1	10.0	ug/L	46.7	BLOD	62.3	36-166			
bis (2-Ethylhexyl) phthalate	45.9	10.0	ug/L	46.7	12.5	71.4	10-158			
Butyl benzyl phthalate	47.5	10.0	ug/L	46.7	BLOD	102	10-152			
Chrysene	33.0	10.0	ug/L	46.7	BLOD	70.7	17-169			
Dibenz (a,h) anthracene	37.0	10.0	ug/L	46.7	BLOD	79.1	10-227			
Diethyl phthalate	32.8	10.0	ug/L	46.7	BLOD	70.2	10-120			
Dimethyl phthalate	31.8	10.0	ug/L	46.7	BLOD	68.0	10-120			
Di-n-butyl phthalate	30.7	10.0	ug/L	46.7	BLOD	65.8	10-120			
Di-n-octyl phthalate	39.2	10.0	ug/L	46.7	BLOD	83.9	10-146			
Fluoranthene	31.4	10.0	ug/L	46.7	BLOD	67.2	26-137			
Fluorene	31.3	10.0	ug/L	46.7	BLOD	66.9	59-121			
Hexachlorobenzene	27.9	1.00	ug/L	46.7	BLOD	59.7	10-152			
Hexachlorobutadiene	25.9	10.0	ug/L	46.7	BLOD	55.3	24-120			
Hexachlorocyclopentadiene	24.6	10.0	ug/L	46.7	BLOD	52.7	10-90			
Hexachloroethane	24.7	10.0	ug/L	46.7	BLOD	52.9	40-120			
Indeno (1,2,3-cd) pyrene	32.7	10.0	ug/L	46.7	BLOD	69.9	10-171			
Isophorone	23.0	10.0	ug/L	46.7	BLOD	49.3	21-196			
Naphthalene	23.7	5.00	ug/L	46.7	BLOD	50.6	21-133			
Nitrobenzene	30.6	10.0	ug/L	46.7	BLOD	65.5	35-180			
n-Nitrosodimethylamine	14.8	10.0	ug/L	46.7	BLOD	31.7	10-85			
n-Nitrosodi-n-propylamine	24.9	10.0	ug/L	46.7	BLOD	53.2	10-230			

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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 BID0399 - SW3510C/EPA600-MS										
Matrix Spike (BID0399-MS1)	**Source: 25D0126-02**			Prepared & Analyzed: 04/08/2025						
n-Nitrosodiphenylamine	26.7	10.0	ug/L	46.7	BLOD	57.2	12-111			
p-Chloro-m-cresol	31.1	10.0	ug/L	46.7	BLOD	66.5	10-127			
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L		BLOD		0-200			
Pentachlorophenol	38.4	20.0	ug/L	46.7	BLOD	82.2	14-176			
Phenanthrene	31.3	10.0	ug/L	46.7	BLOD	67.1	54-120			
Phenol	13.4	10.0	ug/L	47.2	BLOD	28.3	10-120			
Pyrene	39.9	10.0	ug/L	46.7	BLOD	85.3	52-120			
Pyridine	25.4	10.0	ug/L	46.7	BLOD	54.4	10-110			
Surr: 2,4,6-Tribromophenol (Surr)	*64.9*		ug/L	*93.5*		*69.5*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*25.9*		ug/L	*46.7*		*55.4*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*24.8*		ug/L	*93.5*		*26.5*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*29.6*		ug/L	*46.7*		*63.4*	*5-151*			
Surr: Phenol-d5 (Surr)	*24.6*		ug/L	*93.5*		*26.3*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*32.9*		ug/L	*46.7*		*70.3*	*5-141*			
Matrix Spike Dup (BID0399-MSD1)	**Source: 25D0126-02**			Prepared & Analyzed: 04/08/2025						
1,2,4-Trichlorobenzene	28.5	10.2	ug/L	51.0	BLOD	55.9	44-142	9.71	20	
1,2-Dichlorobenzene	27.4	10.2	ug/L	51.0	BLOD	53.6	22-115	9.34	20	
1,3-Dichlorobenzene	27.1	10.2	ug/L	51.0	BLOD	53.1	22-112	9.76	20	
1,4-Dichlorobenzene	24.9	10.2	ug/L	51.0	BLOD	48.9	13-112	4.70	20	
2,4,6-Trichlorophenol	30.0	10.2	ug/L	51.0	BLOD	58.8	37-144	7.03	20	
2,4-Dichlorophenol	32.8	10.2	ug/L	51.0	BLOD	64.3	39-135	12.3	20	
2,4-Dimethylphenol	31.9	5.10	ug/L	51.0	BLOD	62.5	32-120	14.4	20	
2,4-Dinitrophenol	72.4	51.0	ug/L	51.0	BLOD	142	39-139	13.1	20	*M*
2,4-Dinitrotoluene	46.3	10.2	ug/L	51.0	BLOD	90.8	10-191	8.80	20	

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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 BID0399 - SW3510C/EPA600-MS										
Matrix Spike Dup (BID0399-MSD1)	**Source: 25D0126-02**			Prepared & Analyzed: 04/08/2025						
2,6-Dinitrotoluene	40.1	10.2	ug/L	51.0	BLOD	78.5	50-158	6.42	20	
2-Chloronaphthalene	29.5	10.2	ug/L	51.0	BLOD	57.9	60-120	8.47	20	*M*
2-Chlorophenol	31.5	10.2	ug/L	51.0	BLOD	61.7	23-134	14.7	20	
2-Nitrophenol	43.3	10.2	ug/L	51.0	BLOD	84.9	29-182	16.0	20	
3,3'-Dichlorobenzidine	27.6	10.2	ug/L	51.0	BLOD	54.0	10-262	15.6	20	
4,6-Dinitro-2-methylphenol	67.2	51.0	ug/L	51.0	BLOD	132	10-181	8.19	20	
4-Bromophenyl phenyl ether	30.3	10.2	ug/L	51.0	BLOD	59.5	53-127	7.48	20	
4-Chlorophenyl phenyl ether	32.2	10.2	ug/L	51.0	BLOD	63.0	25-158	5.05	20	
4-Nitrophenol	15.7	51.0	ug/L	51.0	BLOD	30.8	10-132	13.0	20	
Acenaphthene	30.9	10.2	ug/L	51.0	BLOD	60.5	47-145	4.80	20	
Acenaphthylene	33.9	10.2	ug/L	51.0	BLOD	66.5	33-145	7.32	20	
Acetophenone	32.0	20.4	ug/L	51.0	BLOD	62.6	0-200	16.4	20	
Anthracene	31.6	10.2	ug/L	51.0	BLOD	62.0	27-133	7.98	20	
Benzo (a) anthracene	35.9	10.2	ug/L	51.0	BLOD	70.3	33-143	11.7	20	
Benzo (a) pyrene	38.5	10.2	ug/L	51.0	BLOD	75.5	17-163	10.3	20	
Benzo (b) fluoranthene	37.9	10.2	ug/L	51.0	BLOD	74.2	24-159	9.40	20	
Benzo (g,h,i) perylene	41.9	10.2	ug/L	51.0	BLOD	82.1	10-219	13.5	20	
Benzo (k) fluoranthene	32.0	10.2	ug/L	51.0	BLOD	62.6	11-162	6.14	20	
bis (2-Chloroethoxy) methane	36.4	10.2	ug/L	51.0	BLOD	71.4	33-184	12.8	20	
bis (2-Chloroethyl) ether	35.3	10.2	ug/L	51.0	BLOD	69.2	12-158	8.67	20	
2,2'-Oxybis (1-chloropropane)	34.1	10.2	ug/L	51.0	BLOD	66.8	36-166	15.7	20	
bis (2-Ethylhexyl) phthalate	49.1	10.2	ug/L	51.0	12.5	71.8	10-158	6.91	20	
Butyl benzyl phthalate	49.3	10.2	ug/L	51.0	BLOD	96.7	10-152	3.80	20	
Chrysene	35.3	10.2	ug/L	51.0	BLOD	69.1	17-169	6.47	20	
Dibenz (a,h) anthracene	41.4	10.2	ug/L	51.0	BLOD	81.2	10-227	11.3	20	

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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 BID0399 - SW3510C/EPA600-MS										
Matrix Spike Dup (BID0399-MSD1)	**Source: 25D0126-02**			Prepared & Analyzed: 04/08/2025						
Diethyl phthalate	33.5	10.2	ug/L	51.0	BLOD	65.7	10-120	2.16	20	
Dimethyl phthalate	32.3	10.2	ug/L	51.0	BLOD	63.3	10-120	1.60	20	
Di-n-butyl phthalate	31.3	10.2	ug/L	51.0	BLOD	61.4	10-120	1.96	20	
Di-n-octyl phthalate	42.6	10.2	ug/L	51.0	BLOD	83.6	10-146	8.35	20	
Fluoranthene	32.2	10.2	ug/L	51.0	BLOD	63.2	26-137	2.53	20	
Fluorene	32.8	10.2	ug/L	51.0	BLOD	64.3	59-121	4.79	20	
Hexachlorobenzene	29.4	1.02	ug/L	51.0	BLOD	57.6	10-152	5.21	20	
Hexachlorobutadiene	27.9	10.2	ug/L	51.0	BLOD	54.7	24-120	7.66	20	
Hexachlorocyclopentadiene	29.0	10.2	ug/L	51.0	BLOD	56.8	10-90	16.1	20	
Hexachloroethane	26.8	10.2	ug/L	51.0	BLOD	52.5	40-120	8.02	20	
Indeno (1,2,3-cd) pyrene	36.6	10.2	ug/L	51.0	BLOD	71.8	10-171	11.5	20	
Isophorone	25.1	10.2	ug/L	51.0	BLOD	49.1	21-196	8.50	20	
Naphthalene	25.7	5.10	ug/L	51.0	BLOD	50.3	21-133	8.15	20	
Nitrobenzene	34.0	10.2	ug/L	51.0	BLOD	66.7	35-180	10.6	20	
n-Nitrosodimethylamine	18.1	10.2	ug/L	51.0	BLOD	35.6	10-85	20.3	20	
n-Nitrosodi-n-propylamine	28.9	10.2	ug/L	51.0	BLOD	56.6	10-230	14.9	20	
n-Nitrosodiphenylamine	28.1	10.2	ug/L	51.0	BLOD	55.2	12-111	5.19	20	
p-Chloro-m-cresol	34.3	10.2	ug/L	51.0	BLOD	67.3	10-127	9.91	20	
Pentachloronitrobenzene (quintozene)	ND	10.2	ug/L		BLOD		0-200		20	
Pentachlorophenol	40.5	20.4	ug/L	51.0	BLOD	79.3	14-176	5.22	20	
Phenanthrene	33.8	10.2	ug/L	51.0	BLOD	66.3	54-120	7.64	20	
Phenol	16.3	10.2	ug/L	51.5	BLOD	31.6	10-120	19.6	20	
Pyrene	41.0	10.2	ug/L	51.0	BLOD	80.3	52-120	2.80	20	
Pyridine	30.1	10.2	ug/L	51.0	BLOD	59.0	10-110	16.9	20	

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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 BID0399 - SW3510C/EPA600-MS										
Matrix Spike Dup (BID0399-MSD1)	**Source: 25D0126-02**			Prepared & Analyzed: 04/08/2025						
Surr: 2,4,6-Tribromophenol (Surr)	*70.8*		ug/L	*102*		*69.4*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*28.9*		ug/L	*51.0*		*56.6*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*31.0*		ug/L	*102*		*30.4*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*34.1*		ug/L	*51.0*		*66.8*	*5-151*			
Surr: Phenol-d5 (Surr)	*28.1*		ug/L	*102*		*27.5*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*36.0*		ug/L	*51.0*		*70.6*	*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 BID0398 - No Prep Wet Chem										
Blank (BID0398-BLK1)				Prepared & Analyzed: 04/08/2025						
BOD	ND	2.0	mg/L							
LCS (BID0398-BS1)				Prepared & Analyzed: 04/08/2025						
BOD	200		mg/L	198		101	84.6-115.4			
Duplicate (BID0398-DUP1)	**Source: 25D0564-02**			Prepared & Analyzed: 04/08/2025						
BOD	45.6	2.0	mg/L		45.6			0.00	20	
Batch BID0424 - No Prep Wet Chem										
Blank (BID0424-BLK1)				Prepared & Analyzed: 04/08/2025						
Nitrite as N	ND	0.05	mg/L							
LCS (BID0424-BS1)				Prepared & Analyzed: 04/08/2025						
Nitrite as N	0.11	0.05	mg/L	0.100		107	80-120			
Matrix Spike (BID0424-MS1)	**Source: 25D0609-01**			Prepared & Analyzed: 04/08/2025						
Nitrite as N	0.10	0.05	mg/L	0.100	BLOD	100	80-120			
Matrix Spike Dup (BID0424-MSD1)	**Source: 25D0609-01**			Prepared & Analyzed: 04/08/2025						
Nitrite as N	0.10	0.05	mg/L	0.100	BLOD	100	80-120	0.00	20	
Batch BID0688 - No Prep Wet Chem										
Blank (BID0688-BLK1)				Prepared & Analyzed: 04/13/2025						
COD	ND	10.0	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 BID0688 - No Prep Wet Chem										
LCS (BID0688-BS1)				Prepared & Analyzed: 04/13/2025						
COD	49.5	10.0	mg/L	50.0		99.0	88-119			
Matrix Spike (BID0688-MS1)	**Source: 25D0843-01**			Prepared & Analyzed: 04/13/2025						
COD	48.2	10.0	mg/L	50.0	BLOD	96.4	72.4-130			
Matrix Spike Dup (BID0688-MSD1)	**Source: 25D0843-01**			Prepared & Analyzed: 04/13/2025						
COD	47.5	10.0	mg/L	50.0	BLOD	95.1	72.4-130	1.36	20	
Batch BID0881 - No Prep Wet Chem										
Blank (BID0881-BLK1)				Prepared & Analyzed: 04/17/2025						
TKN as N	ND	0.50	mg/L							
LCS (BID0881-BS1)				Prepared & Analyzed: 04/17/2025						
TKN as N	5.15		mg/L	5.00		103	90-110			
Matrix Spike (BID0881-MS1)	**Source: 25D0470-01**			Prepared & Analyzed: 04/17/2025						
TKN as N	5.93	0.50	mg/L	5.00	1.30	92.6	90-110			
Matrix Spike (BID0881-MS2)	**Source: 25D0470-02**			Prepared & Analyzed: 04/17/2025						
TKN as N	6.14	0.50	mg/L	5.00	1.11	101	90-110			
Matrix Spike Dup (BID0881-MSD1)	**Source: 25D0470-01**			Prepared & Analyzed: 04/17/2025						
TKN as N	6.11	0.50	mg/L	5.00	1.30	96.2	90-110	3.01	20	
Matrix Spike Dup (BID0881-MSD2)	**Source: 25D0470-02**			Prepared & Analyzed: 04/17/2025						
TKN as N	6.21	0.50	mg/L	5.00	1.11	102	90-110	1.21	20	

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Wet Chemistry Analysis - Quality Control

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BID0934 - No Prep Wet Chem										
Blank (BID0934-BLK1)				Prepared & Analyzed: 04/19/2025						
TKN as N	ND	0.50	mg/L							
LCS (BID0934-BS1)				Prepared & Analyzed: 04/19/2025						
TKN as N	5.10		mg/L	5.00		102	90-110			
Matrix Spike (BID0934-MS1)	**Source: 25D0554-01**			Prepared & Analyzed: 04/19/2025						
TKN as N	6.43	0.50	mg/L	5.00	1.01	108	90-110			
Matrix Spike (BID0934-MS2)	**Source: 25D0554-02**			Prepared & Analyzed: 04/19/2025						
TKN as N	6.60	0.50	mg/L	5.00	1.09	110	90-110			*M*
Matrix Spike Dup (BID0934-MSD1)	**Source: 25D0554-01**			Prepared & Analyzed: 04/19/2025						
TKN as N	6.58	0.50	mg/L	5.00	1.01	111	90-110	2.29	20	*M*
Matrix Spike Dup (BID0934-MSD2)	**Source: 25D0554-02**			Prepared & Analyzed: 04/19/2025						
TKN as N	6.67	0.50	mg/L	5.00	1.09	112	90-110	1.13	20	*M*
Batch BID0978 - No Prep Wet Chem										
Blank (BID0978-BLK1)				Prepared & Analyzed: 04/17/2025						
Ammonia as N	ND	0.10	mg/L							
LCS (BID0978-BS1)				Prepared & Analyzed: 04/17/2025						
Ammonia as N	1.05		mg/L	1.00		105	90-110			
Matrix Spike (BID0978-MS1)	**Source: 25D1188-07**			Prepared & Analyzed: 04/17/2025						
Ammonia as N	1.09	0.10	mg/L	1.00	BLOD	109	89.3-131			

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Wet Chemistry Analysis - Quality Control

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BID0978 - No Prep Wet Chem										
Matrix Spike (BID0978-MS2)		**Source: 25D1269-02**		Prepared & Analyzed: 04/17/2025						
Ammonia as N	1.15	0.10	mg/L	1.00	BLOD	115	89.3-131			
Matrix Spike Dup (BID0978-MSD1)		**Source: 25D1188-07**		Prepared & Analyzed: 04/17/2025						
Ammonia as N	1.09	0.10	mg/L	1.00	BLOD	109	89.3-131	0.459	20	
Matrix Spike Dup (BID0978-MSD2)		**Source: 25D1269-02**		Prepared & Analyzed: 04/17/2025						
Ammonia as N	1.16	0.10	mg/L	1.00	BLOD	116	89.3-131	0.605	20	
Batch BID1011 - No Prep Wet Chem										
Blank (BID1011-BLK1)				Prepared & Analyzed: 04/17/2025						
Nitrate+Nitrite as N	ND	0.10	mg/L							
LCS (BID1011-BS1)				Prepared & Analyzed: 04/17/2025						
Nitrate+Nitrite as N	1.02		mg/L	1.00		102	90-110			
Matrix Spike (BID1011-MS1)		**Source: 25D0472-01**		Prepared & Analyzed: 04/17/2025						
Nitrate+Nitrite as N	1.06	0.10	mg/L	1.00	BLOD	106	90-120			
Matrix Spike Dup (BID1011-MSD1)		**Source: 25D0472-01**		Prepared & Analyzed: 04/17/2025						
Nitrate+Nitrite as N	1.16	0.10	mg/L	1.00	BLOD	116	90-120	9.54	20	
Batch BID1090 - No Prep Wet Chem										
Blank (BID1090-BLK1)				Prepared & Analyzed: 04/21/2025						
Total Recoverable Phenolics	ND	0.050	mg/L							

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Wet Chemistry Analysis - Quality Control

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BID1090 - No Prep Wet Chem										
LCS (BID1090-BS1)				Prepared & Analyzed: 04/21/2025						
Total Recoverable Phenolics	0.48	0.050	mg/L	0.510		94.5	80-120			
Matrix Spike (BID1090-MS1)		**Source: 25D1494-01**		Prepared & Analyzed: 04/21/2025						
Total Recoverable Phenolics	7.78	0.250	mg/L	2.50	4.79	120	70-130			
Matrix Spike Dup (BID1090-MSD1)		**Source: 25D1494-01**		Prepared & Analyzed: 04/21/2025						
Total Recoverable Phenolics	7.80	0.250	mg/L	2.50	4.79	120	70-130	0.257	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**	
25D0534-01	50.0 mL / 50.0 mL	SW6010D	BID0461	SID0489	AD50218
25D0534-01RE1	50.0 mL / 50.0 mL	SW6010D	BID0461	SID0489	AD50218
25D0534-02	50.0 mL / 50.0 mL	SW6010D	BID0461	SID0489	AD50218

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**	
25D0534-01	50.0 mL / 50.0 mL	SW6020B	BID0462	SID0744	AD50261
25D0534-02	50.0 mL / 50.0 mL	SW6020B	BID0462	SID0744	AD50261

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			**Preparation Method:**	**No Prep Wet Chem**	
25D0534-01	300 mL / 300 mL	SM5210B-2016	BID0398	SID0582	
25D0534-02	300 mL / 300 mL	SM5210B-2016	BID0398	SID0582	
25D0534-01	1.00 mL / 25.0 mL	SM4500-NO2B-2021	BID0424	SID0384	AJ40362
25D0534-02	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BID0424	SID0384	AJ40362
25D0534-01	2.00 mL / 2.00 mL	SM5220D-2011	BID0688	SID0593	AD50192
25D0534-02	2.00 mL / 2.00 mL	SM5220D-2011	BID0688	SID0593	AD50192
25D0534-01	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0881	SID0800	AD50269
25D0534-01RE1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0881	SID0800	AD50269
25D0534-02	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0934	SID0890	AD50282
25D0534-01	6.00 mL / 6.00 mL	EPA350.1 R2.0	BID0978	SID0839	AD50275
25D0534-02	6.00 mL / 6.00 mL	EPA350.1 R2.0	BID0978	SID0839	AD50275
25D0534-01	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BID1011	SID0819	AD50274
25D0534-02	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BID1011	SID0819	AD50274

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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**	
25D0534-01	0.100 mL / 10.0 mL	SW9065	BID1090	SID0942	AD50299
25D0534-02	0.200 mL / 10.0 mL	SW9065	BID1090	SID0942	AD50299

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			**Preparation Method:**	**SW3510C/EPA600-MS**	
25D0534-01	500 mL / 1.00 mL	SW8270E	BID0399	SID0423	AC50298
25D0534-02	500 mL / 0.500 mL	SW8270E	BID0399	SID0423	AC50298

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			**Preparation Method:**	**SW5030B-MS**	
25D0534-01	5.00 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231
25D0534-01RE1	5.00 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231
25D0534-02	5.00 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231
25D0534-02RE1	5.00 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231
25D0534-03	5.00 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231

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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**	
BID0461-BLK1	50.0 mL / 50.0 mL	SW6010D	BID0461	SID0489	AD50218
BID0461-BS1	50.0 mL / 50.0 mL	SW6010D	BID0461	SID0489	AD50218
BID0461-MS1	50.0 mL / 50.0 mL	SW6010D	BID0461	SID0489	AD50218
BID0461-MSD1	50.0 mL / 50.0 mL	SW6010D	BID0461	SID0489	AD50218

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**	
BID0462-BLK1	50.0 mL / 50.0 mL	SW6020B	BID0462	SID0744	AD50261
BID0462-BS1	50.0 mL / 50.0 mL	SW6020B	BID0462	SID0744	AD50261
BID0462-MS1	50.0 mL / 50.0 mL	SW6020B	BID0462	SID0744	AD50261
BID0462-MS2	50.0 mL / 50.0 mL	SW6020B	BID0462	SID0744	AD50261
BID0462-MSD1	50.0 mL / 50.0 mL	SW6020B	BID0462	SID0744	AD50261
BID0462-MSD2	50.0 mL / 50.0 mL	SW6020B	BID0462	SID0744	AD50261

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			**Preparation Method:**	**No Prep Wet Chem**	
BID0398-BLK1	300 mL / 300 mL	SM5210B-2016	BID0398	SID0582	
BID0398-BS1	300 mL / 300 mL	SM5210B-2016	BID0398	SID0582	
BID0398-DUP1	300 mL / 300 mL	SM5210B-2016	BID0398	SID0582	
BID0424-BLK1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BID0424	SID0384	AJ40362
BID0424-BS1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BID0424	SID0384	AJ40362
BID0424-MRL1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BID0424	SID0384	AJ40362
BID0424-MS1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BID0424	SID0384	AJ40362
BID0424-MSD1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BID0424	SID0384	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**	
BID0688-BLK1	2.00 mL / 2.00 mL	SM5220D-2011	BID0688	SID0593	AD50192
BID0688-BS1	2.00 mL / 2.00 mL	SM5220D-2011	BID0688	SID0593	AD50192
BID0688-MRL1	2.00 mL / 2.00 mL	SM5220D-2011	BID0688	SID0593	AD50192
BID0688-MS1	2.00 mL / 2.00 mL	SM5220D-2011	BID0688	SID0593	AD50192
BID0688-MSD1	2.00 mL / 2.00 mL	SM5220D-2011	BID0688	SID0593	AD50192
BID0881-BLK1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0881	SID0800	AD50269
BID0881-BS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0881	SID0800	AD50269
BID0881-MRL1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0881	SID0800	AD50269
BID0881-MS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0881	SID0800	AD50269
BID0881-MS2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0881	SID0800	AD50269
BID0881-MSD1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0881	SID0800	AD50269
BID0881-MSD2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0881	SID0800	AD50269
BID0934-BLK1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0934	SID0890	AD50282
BID0934-BS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0934	SID0890	AD50282
BID0934-MRL1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0934	SID0890	AD50282
BID0934-MS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0934	SID0890	AD50282
BID0934-MS2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0934	SID0890	AD50282
BID0934-MSD1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0934	SID0890	AD50282
BID0934-MSD2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BID0934	SID0890	AD50282
BID0978-BLK1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BID0978	SID0839	AD50275
BID0978-BS1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BID0978	SID0839	AD50275
BID0978-MRL1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BID0978	SID0839	AD50275
BID0978-MS1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BID0978	SID0839	AD50275
BID0978-MS2	6.00 mL / 6.00 mL	EPA350.1 R2.0	BID0978	SID0839	AD50275
BID0978-MSD1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BID0978	SID0839	AD50275
BID0978-MSD2	6.00 mL / 6.00 mL	EPA350.1 R2.0	BID0978	SID0839	AD50275
BID1011-BLK1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BID1011	SID0819	AD50274
BID1011-BS1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BID1011	SID0819	AD50274
BID1011-MS1	10.0 mL / 10.0 mL	SM4500-NO3F-2019	BID1011	SID0819	AD50274

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Date Issued: 4/21/2025 5:24:05PM
Work Order: 25D0534

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			**Preparation Method:**	**No Prep Wet Chem**	
BID1011-MSD1	10.0 mL / 10.0 mL	SM4500-NO3F-2019	BID1011	SID0819	AD50274
BID1090-BLK1	5.00 mL / 10.0 mL	SW9065	BID1090	SID0942	AD50299
BID1090-BS1	5.00 mL / 10.0 mL	SW9065	BID1090	SID0942	AD50299
BID1090-MRL1	5.00 mL / 10.0 mL	SW9065	BID1090	SID0942	AD50299
BID1090-MS1	1.00 mL / 10.0 mL	SW9065	BID1090	SID0942	AD50299
BID1090-MSD1	1.00 mL / 10.0 mL	SW9065	BID1090	SID0942	AD50299

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			**Preparation Method:**	**SW3510C/EPA600-MS**	
BID0399-BLK1	1000 mL / 1.00 mL	SW8270E	BID0399	SID0423	AC50298
BID0399-BS1	1000 mL / 1.00 mL	SW8270E	BID0399	SID0423	AC50298
BID0399-MS1	1070 mL / 1.00 mL	SW8270E	BID0399	SID0423	AC50298
BID0399-MSD1	980 mL / 1.00 mL	SW8270E	BID0399	SID0423	AC50298

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			**Preparation Method:**	**SW5030B-MS**	
BID0489-BLK1	5.00 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231
BID0489-BLK2	0.250 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231
BID0489-BS1	5.00 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231
BID0489-BS2	0.250 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231
BID0489-MS1	5.00 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231
BID0489-MSD1	5.00 mL / 5.00 mL	SW8260D	BID0489	SID0442	AD50231

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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,TXCEQ
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,TXCEQ
Copper	VELAP,WVDEP,NCDEQ,SCDHEC
Lead	VELAP,WVDEP,SCDHEC,NCDEQ
Nickel	VELAP,WVDEP,SCDHEC,NCDEQ
Selenium	VELAP,WVDEP,SCDHEC,NCDEQ
Silver	VELAP,WVDEP,PADEP,SCDHEC,NCDEQ
Zinc	VELAP,WVDEP,SCDHEC,NCDEQ
SW6020B in Non-Potable Water	
Mercury	VELAP,NCDEQ

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Certified Analyses included in this Report

Analyte	Certifications
SW8260D in Non-Potable Water	
2-Butanone (MEK)	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Acetone	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Benzene	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Ethylbenzene	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Toluene	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Xylenes, Total	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Tetrahydrofuran	PADEP,VELAP
SW8270E in Non-Potable Water	
Anthracene	NCDEQ,VELAP,PADEP,WVDEP,TXCEQ
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
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 #13307	460021	06/14/2025
WVDEP	West Virginia DEP Cert ID: WV-C25-00053	350	11/30/2025

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Qualifiers and Definitions

DS	Surrogate concentration reflects a dilution factor.
E	Estimated concentration, outside calibration range
H	Analysis was performed outside of the method prescribed holding time.
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

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 4
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.TUCKER | 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	
1) EW-60	X					040225	930		GW	9	9 X	X	X	X	X	X	X	X	X
2) EW-68	X					↓	1215		GW	9	X	X	X	X	X	X	X	X	X
3)									GW										
4)									GW										
5) TRIP BLANK	X					040225	1043	DI	~~GW~~		X								
6)									GW										
7)									GW										
8)									GW										
9)									GW										
10)									DI										

COMMENTS

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)

271
Observed Temp °C: 18.8
Correction Factor °C: 0.0
Corrected Temp °C: 18.8

RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
	4/2/25 1745	Fed ex E	
RELINQUISHED: Fed ex E	DATE / TIME	RECEIVED:	DATE / TIME 04/7/25 9:20
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME

QC Data Package
Level III ☐
Level IV ☐

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

SCS-W **25D0534**
Bristol LFG-EW Monthly Monitor
Recd: 04/07/2025 Due: 04/21/2025

v130325002

d Level Log

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Sample Preservation Log

Order ID 25DQ534 Date Performed: 04/07/25 Analyst Performing Check: THT

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		7	<2																																					
1	D										7	<2								7	<2																<2					
2	A		7	<2																																					
2	D										7	<2								7	<2																<2					
1	E																																						7	<2	
2	E																																						7	<2	

NaOH ID: _____ HNO3 ID: SC04831

H2SO4 ID: SC03894 Na2S2O3 ID: _____

HCL ID: _____ Na2SO3 ID: _____

CrVI preserved date/time: _____ Analyst Initials: _____

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

Ammonia Buffer Sol'n ID: _____

5N NaOH ID: _____

Metals were received with pH = 7 HNO3 was added at 1300 on April 7, 2025, by THT in the Log-In room to bring pH= <2.

**W.Va only certifies DISS CrVI and not T CrVI as an approved analyte

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Laboratory Order ID: 25D0534

Sample Conditions Checklist

Samples Received at:	**18.80°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?	No
Are all samples within holding time for requested laboratory tests?	No
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	Yes
Are all samples received appropriately preserved? 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 samples were receieved on melted ice and outside of the 0-6'C temperature range (18.8). The samples are also outside of the 48hour hold time for BOD and nitrite analysis. HEG 4/7/25 1110

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Jennifer Robb approved to proceed with analysis and was notified the samples were preserved in the lab to the appropriate pH. HEG 4/7/25 1321

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
	April-2025	---	---	---	---	---	---	---	---	---	---	2440	---	---	---	---	---	2580	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	33900	---	---	---	---	---	24600	---	---	---	---	---	---	---	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
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		---	**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
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		---	---	---	**94200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	January-2024	---	---	**48600**	---	---	---	---	---	---	**59800**	---	---	---	---	---	---	---	---	---	---	---	---	**38200**	5000	5000
	February-2024	---	---	**42700**	---	**51200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**48900**	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**68400**	---	---	10000	10000
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		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**75500**	---	---	10000	10000
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		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**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
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	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**47900**	---	---	---	---	---	**24100**	---	---	---	---	---	---	---	6300	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
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.35	1.35
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.6	2.6
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.9**	---	---	---	1	3
		---	---	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	1.25
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Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-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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		---	ND	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2
	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
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		---	---	---	---	---	---	---	**1.2 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1	5
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.05	0.25
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	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.2	1
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.25	1.25
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	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
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	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.05	0.25
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	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	ND	0.5	2.5
	July-2024	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	2.5
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	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
	April-2025	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	1.25
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Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-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
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	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
	April-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2600**	---	---	**---**	---	---	---	---	45.9	250
		---	---	---	---	---	---	---	---	---	---	**2240**	---	---	---	---	---	---	---	---	---	---	---	---	---	80	200

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
	April-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**35**	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	---	**43**	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5

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
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		---	---	---	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
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		---	---	---	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

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																									
Anthracene (continued)	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
	April-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.246**	---	---	---	---	---	**0.217**	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**1.96**	---	---	---	---	---	**2.95**	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.0284**	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.248**	---	---	---	---	---	**0.143**	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	**0.009 J**	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.132**	---	---	---	---	---	**0.0207**	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.00169**	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.001	0.001

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
	March-2025	---	**0.0933**	---	---	---	---	---	---	---	---	**0.0375**	---	---	---	---	---	**0.0818**	---	---	---	---	---	---	---	0.007	0.01
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.0161**	---	---	---	---	---	**0.0713**	---	---	---	---	---	---	---	0.007	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																									
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
	April-2025	---	---	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.007 J**	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0297**	---	---	---	---	---	---	---	0.01	0.01
		---	---	---	---	---	---	---	---	---	---	**0.366**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.05	0.05

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
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		---	---	---	**2280**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000
	January-2024	---	---	**1680**	---	---	---	---	---	---	**1970**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1030**	---	250
	February-2024	---	---	**1210**	---	**1510**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1980**	---	**2900**	---	---	---	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**570**	---	20
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	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	100
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	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
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	November-2024	**1300**	**310**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3300**	---	200
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	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1800**	---	---	---	---	---	100
Pyruvic Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	**46 J**	---	---	---	---	---	---	---	---	---	---	---	---	12	100
		---	---	---	---	---	---	---	---	---	**98 J**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	30	250
	December-2022	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	250
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	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250
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	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**410**	---	200
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	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
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	July-2023	---	**5860**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	60	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**13500**	750	2500
		---	---	---	---	---	---	---	**38400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**31600**	---	3000	10000
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**5950**	60	200
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		---	---	---	---	---	---	---	**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
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	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	30	100
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	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	60	200
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	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	60	200
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	July-2024	---	---	---	---	---	---	---	---	---	**15600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
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	August-2024	---	---	---	---	---	**17700**	---	---	---	---	---	---	---	---	---	---	---	---	---	**7260**	---	---	**17900**	---	150	500
	September-2024	---	---	---	**19000**	---	**16600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
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	October-2024	**28.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	10
		---	**2770**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	60	200
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	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
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		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**2540**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
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	April-2025	---	---	---	---	---	---	---	---	---	---	**20800**	---	---	---	---	---	**28100**	---	---	---	---	---	---	---	150	500

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
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	December-2022	---	---	---	---	---	---	---	---	---	**15600**	**5170**	---	---	---	---	---	**9800**	---	---	---	---	---	---	---	700	1000
		---	**8500**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
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	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**61200**	---	---	---	---	---	**78000**	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**938**	---	---	---	---	---	**1540**	---	---	---	---	---	---	---	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
	November-2024	**14.4 J**	**135**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**76**	---	---	---	---	---	20	50
	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**52.5**	---	---	---	---	---	**73.5**	---	---	---	---	---	---	---	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**3660**	---	---	---	---	---	**5920**	---	---	---	---	---	---	---	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
	November-2024	**44.6**	**245**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**72**	---	---	---	---	---	25	50
	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**51**	---	---	---	---	---	**114**	---	---	---	---	---	---	---	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
		---	---	---	**144 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**75.5 J**	---	---	---	---	---	50	150
	November-2024	ND	**223**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	60
	December-2024	---	---	---	**98.5 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**487**	50	150
	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
	April-2025	---	---	---	---	---	---	---	---	---	---	**87.5 J**	---	---	---	---	---	**144 J**	---	---	---	---	---	---	---	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

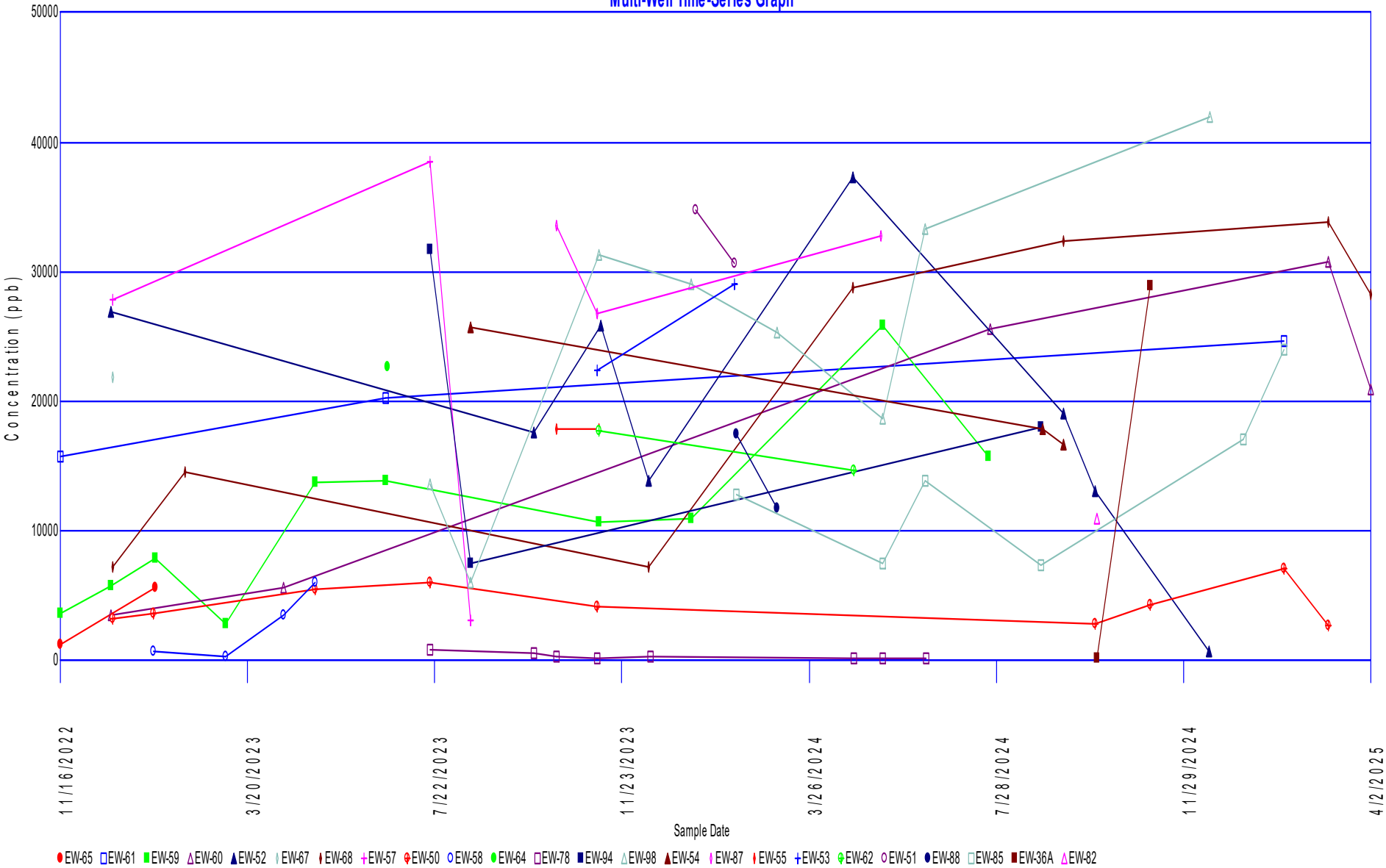
mg/L = milligrams per liter

ND = Not Detected

ug/L = micrograms per liter

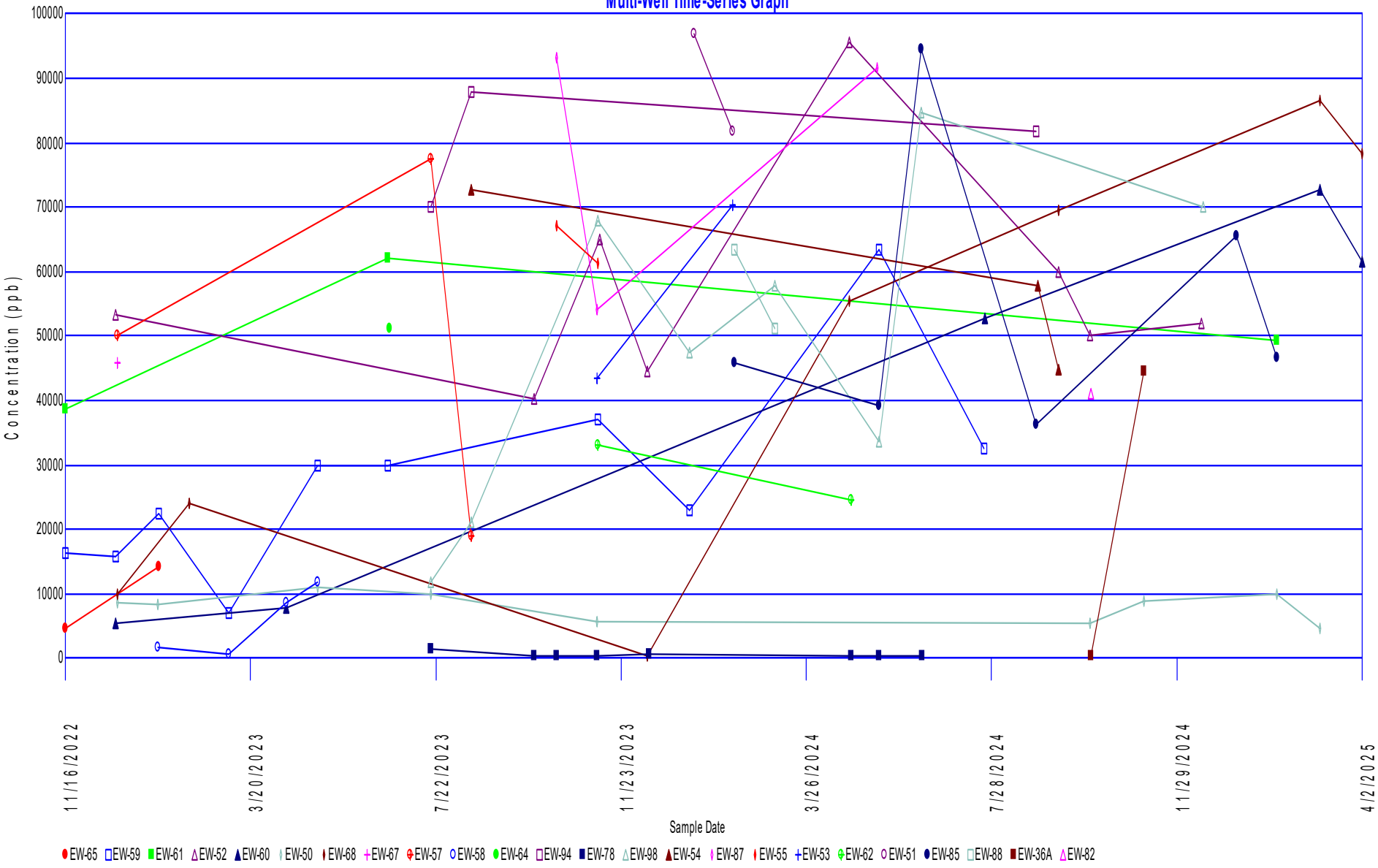
2-Butanone

Multi-Well Time-Series Graph



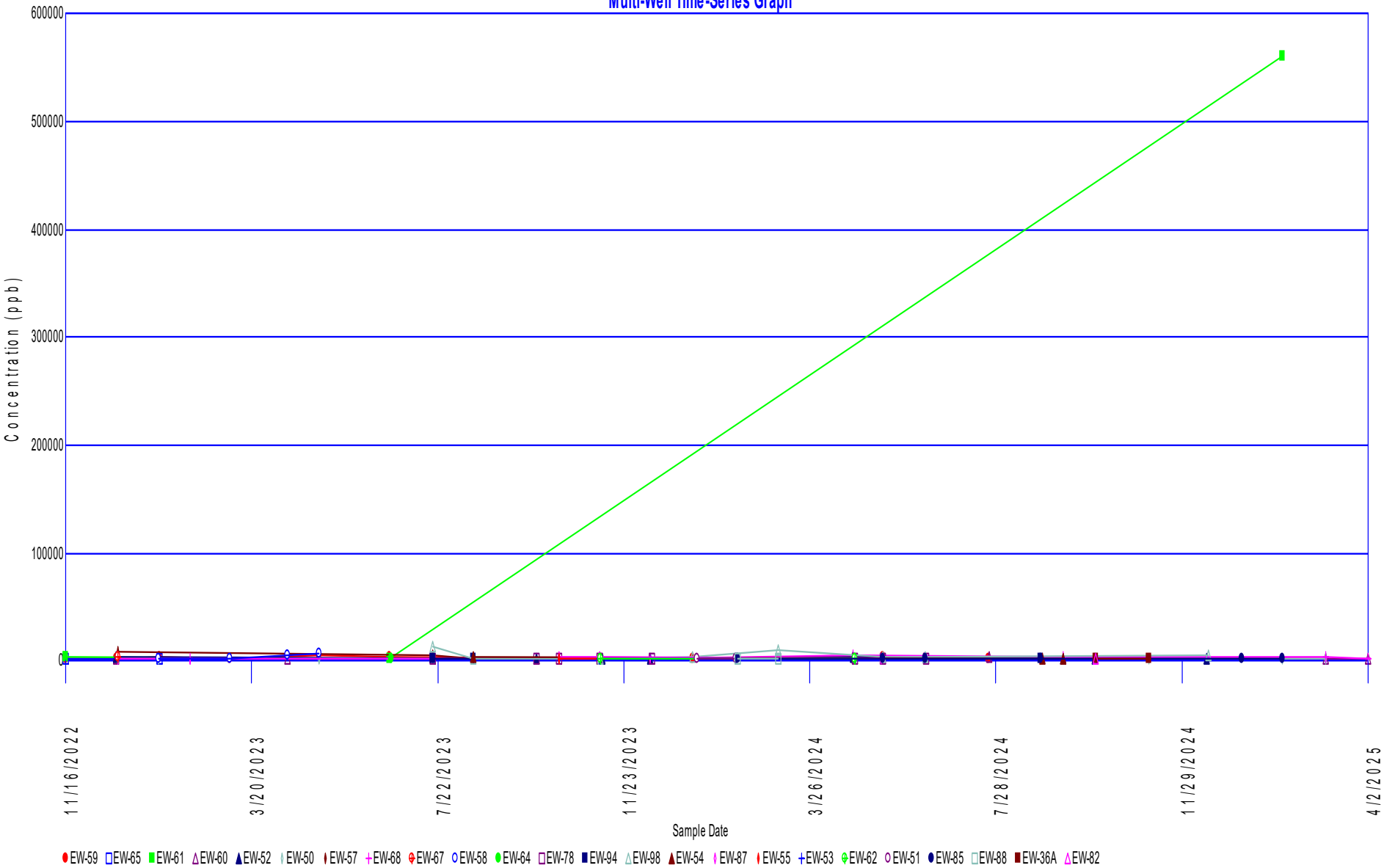
Acetone

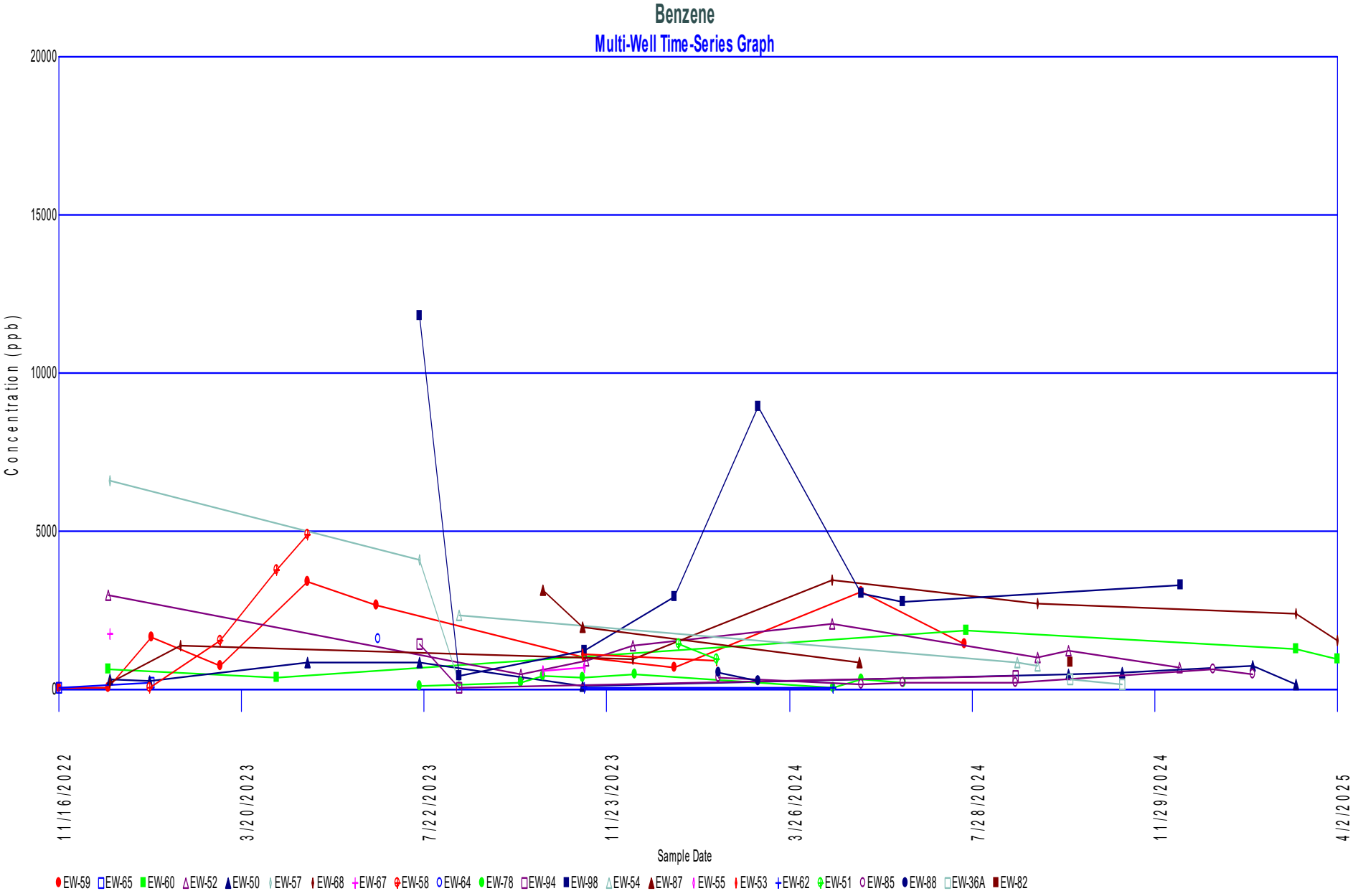
Multi-Well Time-Series Graph



Benzene

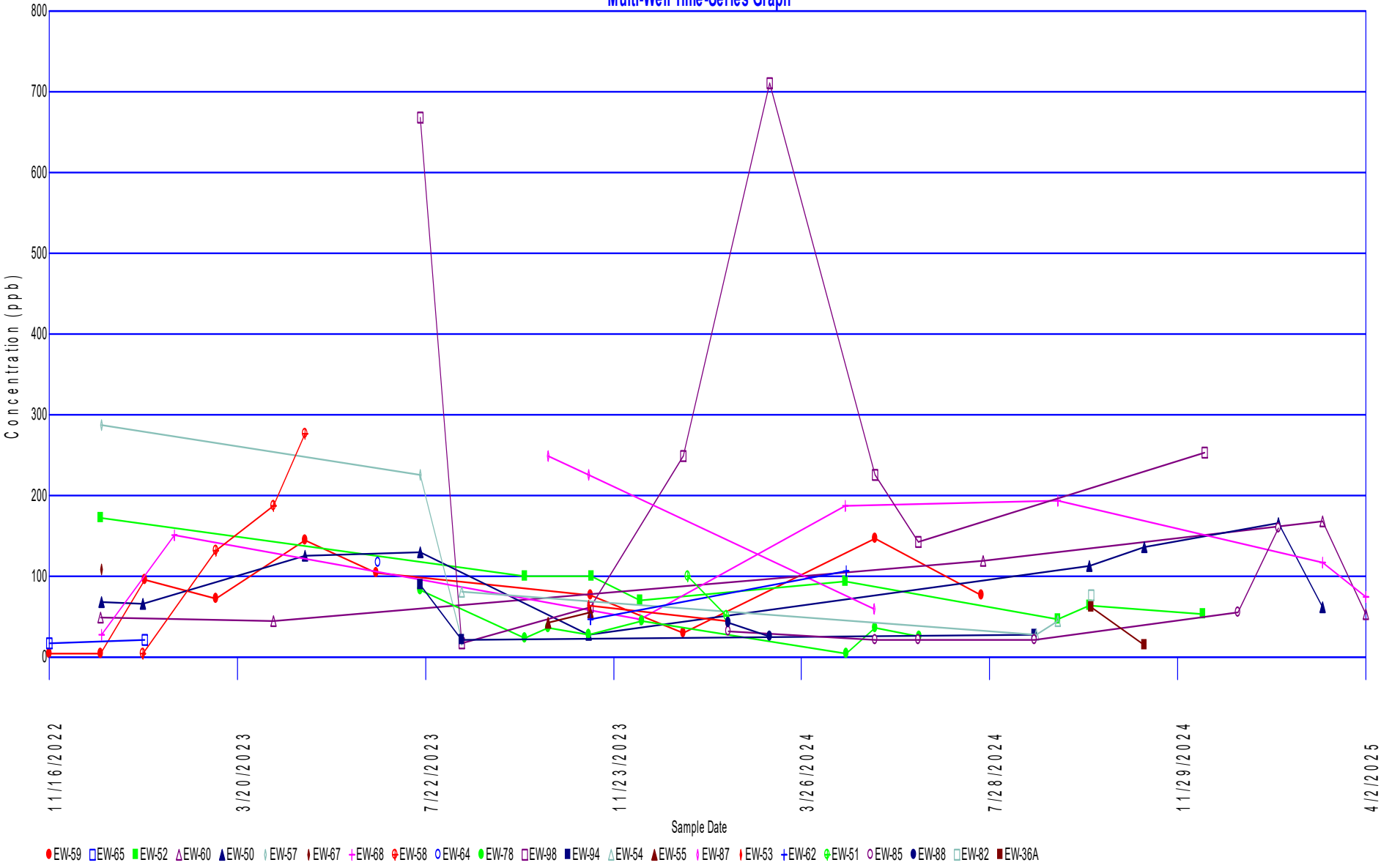
Multi-Well Time-Series Graph

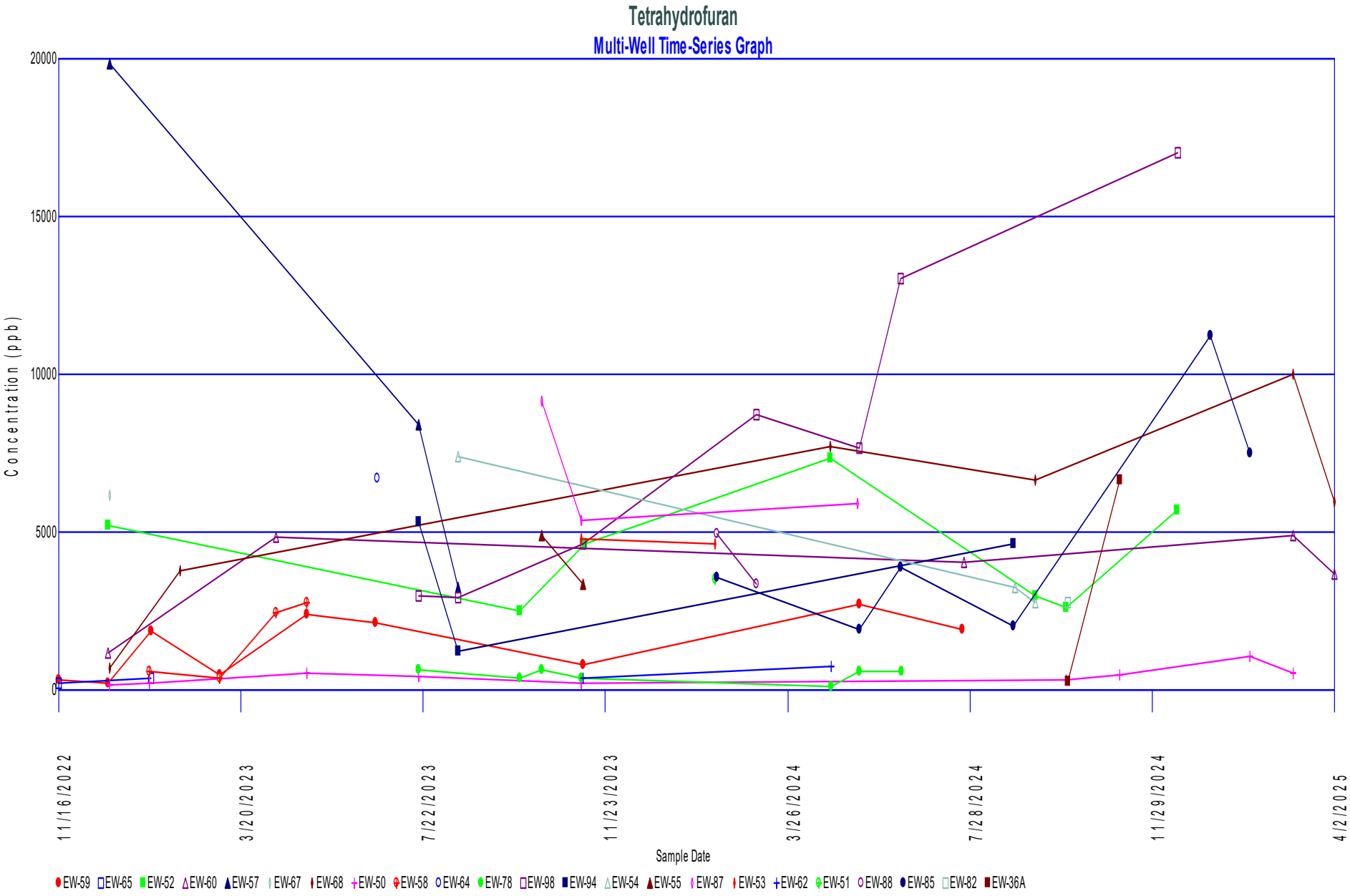



Benzene
Multi-Well Time-Series Graph
20000
15000
10000
5000
0
Concentration (ppb)
11/16/2022
3/20/2023
7/22/2023
11/23/2023
3/26/2024
7/28/2024
11/29/2024
4/2/2025
Sample Date
EW-59 EW-65 EW-60 EW-52 EW-50 EW-57 EW-68 EW-67 EW-58 EW-64 EW-78 EW-94 EW-98 EW-54 EW-87 EW-55 EW-53 EW-62 EW-51 EW-85 EW-88 EW-36A EW-82

Ethylbenzene

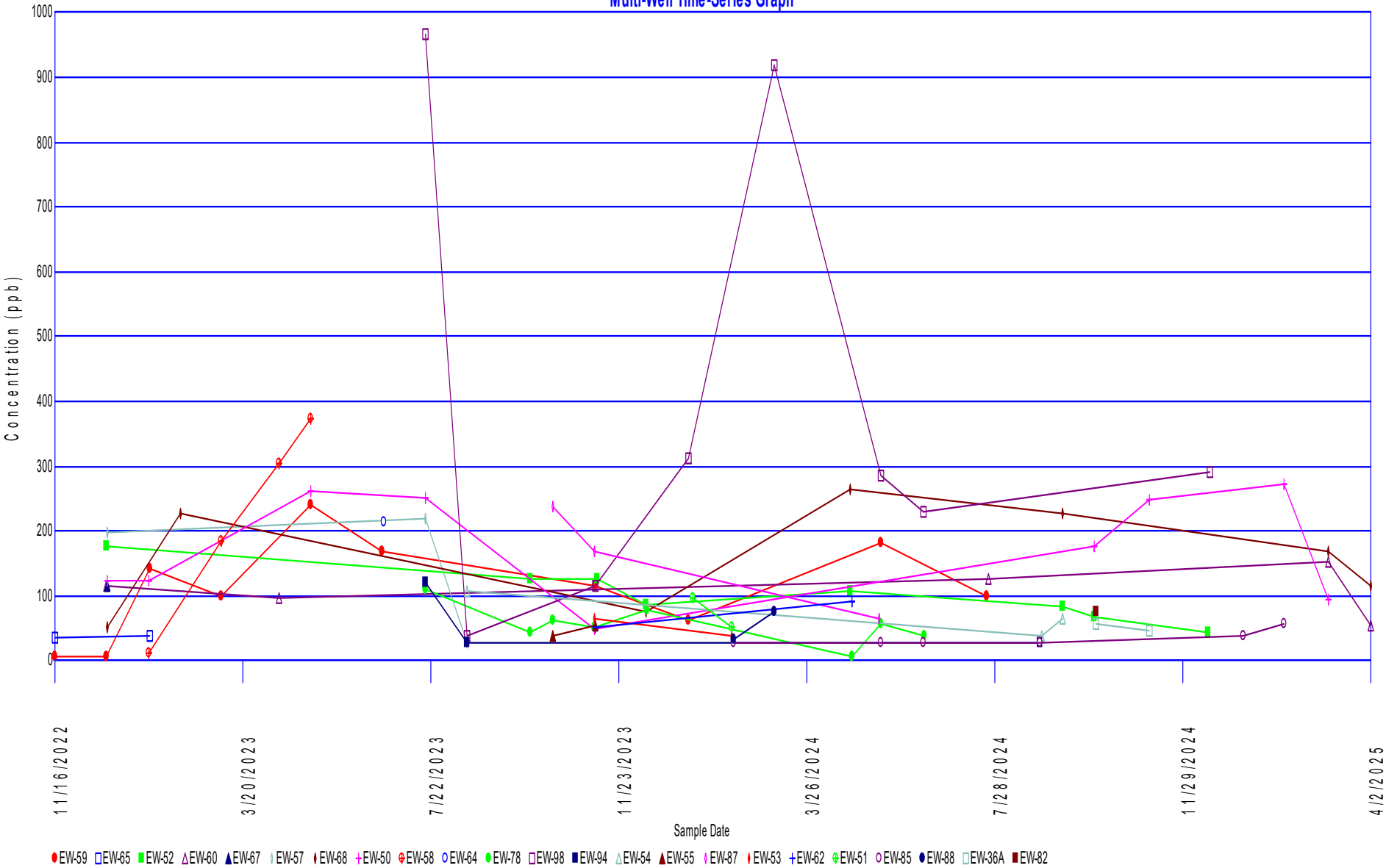
Multi-Well Time-Series Graph




Tetrahydrofuran
Multi-Well Time-Series Graph
Concentration (ppb)
20000
15000
10000
5000
0
11/16/2022
3/20/2023
7/22/2023
11/23/2023
3/26/2024
7/28/2024
11/29/2024
4/2/2025
Sample Date
EW-59 EW-65 EW-52 EW-60 EW-57 EW-67 EW-68 EW-50 EW-58 EW-64 EW-78 EW-98 EW-94 EW-54 EW-55 EW-87 EW-53 EW-62 EW-51 EW-88 EW-85 EW-82 EW-36A

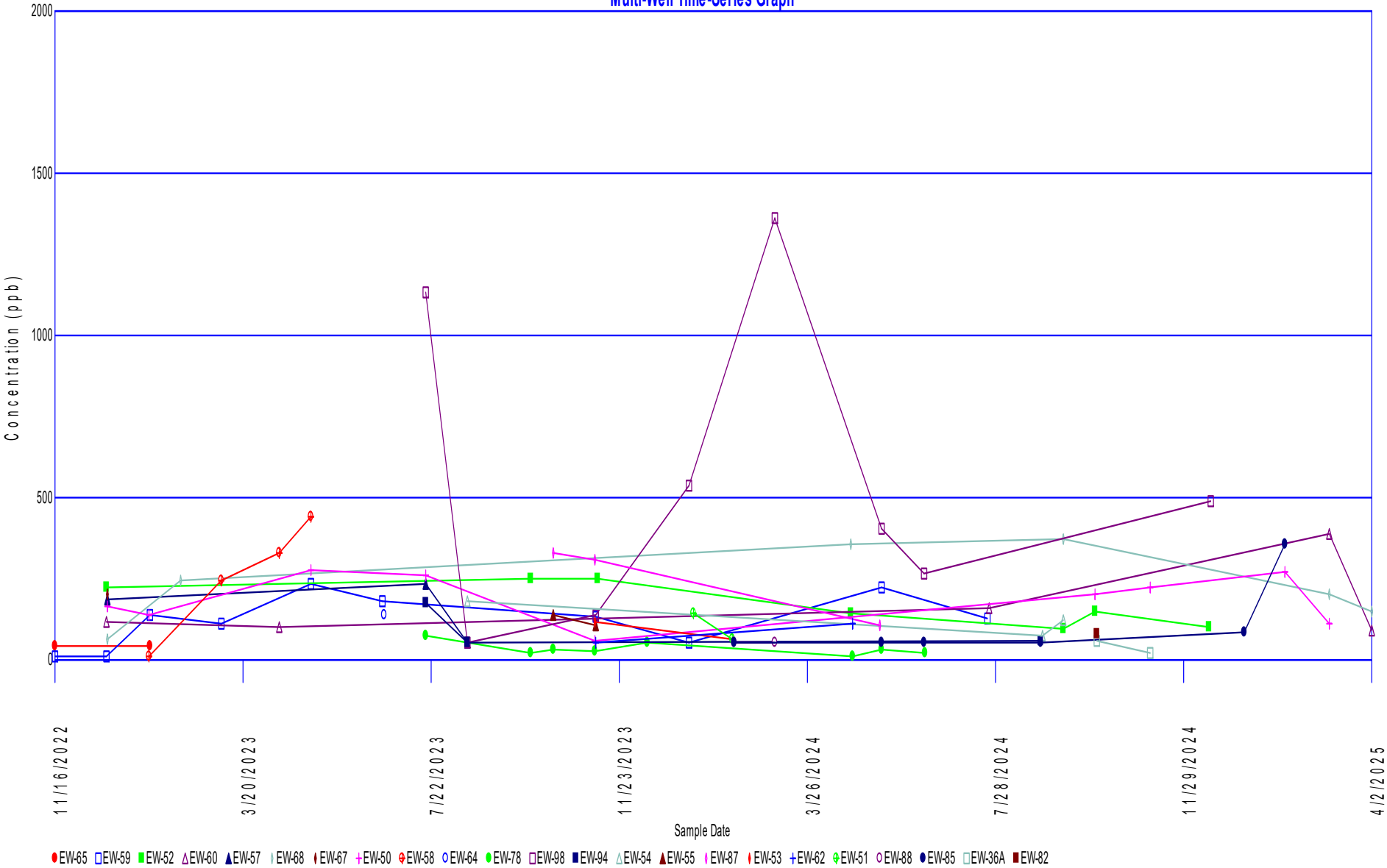
Toluene

Multi-Well Time-Series Graph



Xylenes

Multi-Well Time-Series Graph



Appendix G

LFG Dewatering Pump Stroke Counter Data Analysis

Stroke Counter Data Analysis

During the monthly liquid depth measurement event and during LFG monitoring, SCS collected stroke counter data from the pumps installed in the GCCS extraction wells. These stroke counts were collected from 40 wells from March 25, 2025 to April 21, 2025. The recorded stroke count data from each well during April 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	3/25/2025	4/8/2025	4/21/2025	# of strokes between measurements	Estimated liquid removed (gallons)
EW33B				-	-
EW36A				-	-
EW49	79565	79565		-	-
EW50	1548311	1555578	1562073	13,762	4,129
EW51				-	-
EW52	1239019	1239183	1239186	167	50
EW53		3294531	3294531	-	-
EW54				-	-
EW55	73374	73384	73384	10	3
EW57				-	-
EW59	3536810			-	-
EW60	140746	152901	161145	20,399	6,120
EW61		11268	30319	30,319	9,096
EW62	214599	214599	214599	-	-
EW64	196791	196791		-	-
EW65	79659	83180	91595	11,936	3,581
EW67	288743	288743	288743	-	-
EW68	2644962	2651319	2658730	13,768	4,130
EW69				-	-
EW70				-	-
EW74				-	-
EW75				-	-
EW76				-	-
EW78	28100	34588	40047	11,947	1,338
EW81				-	-
EW82				-	-
EW83				-	-
EW85	292827	300412	305085	12,258	1,373

Well	3/25/2025	4/8/2025	4/21/2025	# of strokes between measurements	Estimated liquid removed (gallons)
EW87		340749	340749	-	-
EW88	254736		291710	36,974	4,141
EW89				-	-
EW90				-	-
EW91				-	-
EW92				-	-
EW93	1292375	1292375	1314252	21,877	2,450
EW94	1096145	1172239	1263742	167,597	18,771
EW96				-	-
EW98	1706410		1771872	65,462	19,639
Total Estimated Liquid Removal					74,820