Savannah River NUCLEAR SOLUTIONS℠

Scoping Summary for the General Separations Area Western Groundwater Operable Unit (U)

SEMS Number: 85

ERD-EN-2005-0127

Final

June 2026

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Printed in the United States of America

Prepared for
U.S. Department of Energy
and
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Aiken, South Carolina

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KEY CHANGES TO THE SCOPING SUMMARY

Section	Description of Change	Rationale for Change
4.1 and 4.2	Revised sections to include results from 2025 GW sampling.	These changes update the Scoping Summary to include results from sampling in 2025.
Figures	Figures were updated based on the results of 2025 GW sampling.	These changes update the Scoping Summary with sampling results from 2025.
Appendix B	Data table was updated with the results of 2025 GW sampling.	These changes update the Scoping Summary with sampling results from 2025.

RECORD OF CORE TEAM AGREEMENTS

Agreement	Meeting
Core Team agreed to increase sample frequency from annual to quarterly for wells FGW005C, FGW022C and FBP 43C. Wells will be sampled for gross alpha and nonvolatile beta. If trigger levels are exceeded (15 pCi/L gross alpha and 50 pCi/L nonvolatile beta), then the appropriate alpha, beta and/or gamma spectroscopy will be performed.	June 2024
Core Team agreed to add a surface water monitoring location on Waterfall Creek to be sampled annually for nitrates, gross alpha, and nonvolatile beta.	June 2024
Core Team agreed to verify the status of sixteen (16) legacy wells near F-Canyon. Due to questionable integrity, the wells that have not been previously abandoned will be abandoned.	June 2024
Core Team agreed to transition to annual sampling for locations FGW-023 and FGW-024.	October 2017
Locations FGW-023 and FGW-024 will be sampled at least 2 more times and results will be discussed in the 2016 Scoping Summary. Continued monitoring of these locations will be evaluated.	September 2015
Technetium-99 will be added to the analyte list for the South plume.	September 2014
Sampling data (one event) for new locations, FGW-023 and FGW-024, will be included in the final Scoping Summary for 2014.	September 2014
At the South plume, the Core Team agreed to move forward with installation of one surface water sample station and one shallow seepline piezometer on a tributary to the west of the Biomass Facility. The need for additional monitoring points will be evaluated based on monitoring results.	August 2013
Sampling of established wells will be performed annually. New monitoring locations added to the OU will be sampled semi-annually until a baseline is established.	August 2013
As documented in the GSA Eastern and Western GW OUs GW Monitoring Optimization White Paper, SRNS-RP-2012-00783, Rev. 1, January 2014, the Core Team agreed to discontinue monitoring at wells FNB-3, FNB-12, FBP-13D, FBP-44D, FBP-46D, FBP-47D, BRR-5D and UTR-7.	August 2013
As documented in the GSA Eastern and Western GW OUs GW Monitoring Optimization White Paper, SRNS-RP-2012-00783, Rev. 1, January 2014, the Core Team agreed to add alpha and beta/gamma speciation to analyte list for well FGW005C.	August 2013
The Core Team recognized the difficulty of installing a new well down gradient of UTR-18R and agreed that a new well is not needed at this time as long as SRS continues to monitor water at the seep in well UTR-18R.	August 2013
Add one monitoring well in the lower aquifer zone down gradient of FGW-012C, if possible.	August 2012
Add one seepline and one surface water monitoring location down gradient of FGW-012C along unnamed tributary, if surface water is present.	August 2012
Data are being collected and reported for future evaluation of VOC degradation as a remedial alternative.	August 2011
The Core Team agreed to include information on wells FBP 44D, 46D, and 47D in the August 2011 Scoping Summary instead of submitting the February 2011 white paper that was agreed to during the June 2010 meeting.	August 2011

RECORD OF CORE TEAM AGREEMENTS (CONTINUED)

Agreement	Meeting
FBP 44D, FBP 46D, and FBP 47D can be dry during periods of lower water table. This could represent a data gap if the UTR 18R seepline piezometer is also dry (monitors the same aquifer zone). UTR 18R typically contains water. Historical data associated with the dry wells will be evaluated with respect to contaminants to determine if modifications to the well network are necessary to define plume extent. The evaluation will be reported in February 2011 as a white paper.	June 2010

1.0 PROJECT PHASE AND STATUS

The *Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI)/Remedial Investigation (RI) Phase 1 Work Plan for the General Separations Area (GSA) Western Groundwater Operable Unit (OU)*, Revision 1.1, was approved by the United States Environmental Protection Agency (USEPA) and by the South Carolina Department of Environmental Services (SCDES[1]) on September 9, 2004. A Field Start was achieved for the OU on September 20, 2004.

In 2007, SRS completed establishment of the groundwater (GW) monitoring network, and the GSA Western GW OU has since remained in a GW monitoring program. The purpose of this Scoping Summary is to present the 2025 analytical results to the Core Team (i.e., representatives from the United States Department of Energy [USDOE], USEPA, and SCDES) to determine whether the existing monitoring network and analytical suite remain appropriate for continued monitoring.

In 2025, concentrations were generally consistent with previous sampling results, except for nonvolatile beta at wells FGW 005C and FGW 022C. Continued GW monitoring is recommended, including annual sampling at surface water station UTR-002-FOU on Waterfall Creek and the agreed upon increase in sampling frequency at wells FGW 005C, FGW 022C and FBP 43C. These adjustments will support tracking plume movement and further evaluation of the nonvolatile beta trend at FGW 005C.

Overall, except for nonvolatile beta in the western plume, GW plume concentrations and extents remain stable, and surface water results do not exceed maximum contaminant limits (MCLs).

[1] South Carolina Department of Environmental Services (SCDES) was known as South Carolina Department of Health and Environmental Control prior to July 1, 2024.

2.0 BACKGROUND

The GSA is located on a topographic ridge near the center of the SRS. The GSA Western GW OU is in the northwest portion of the GSA on a GW divide and encompasses approximately (~) 485.6 hectares (ha [1,200 acres {ac}]) beneath F Area. This OU is bordered to the south by the F-Area Hazardous Waste Management Facility and to the east by the Mixed Waste Management Facility (see Figure 1). Because the OU sits on a GW divide, shallow GW flows toward both Fourmile Branch and Upper Three Runs Creek (UTRC) (see Figure 2).

The GSA Western GW OU underlies many operating facilities and waste units in and around F Area that represent potential sources of contamination. Some of these facilities and units have previously been investigated through RCRA RFI/RI activities. Based on those investigations and review of the existing monitoring networks, three distinct GW plumes have been identified in the Upper Three Runs Aquifer (UTRA). The plumes are referred to by their geographic position as the North plume, the West plume, and the South plume.

Several of the facilities in the area are undergoing deactivation and decommissioning and will be brought to closure in the near term. However, other facilities will remain active for the foreseeable future. In September 2005, the Core Team determined:

- It is not appropriate to achieve a Record of Decision (ROD) on the GSA Western GW OU until all sources of potential contamination are brought to closure (including closure of the F-Area High Level Waste Tanks).

- The most appropriate action at this time is continued GW monitoring to ensure that surface water resources are adequately protected.

- If contamination in GW is thought to represent a threat to surface water resources, the Core Team will reconvene to determine if early response actions are required.

SRS has characterized the nature and extent of GW contamination in the area. The primary contaminants detected in GW include volatile organic compounds (VOCs), radionuclides, and nitrate. Tritium, iodine-129, and trichloroethylene (TCE) are sporadically above MCLs in GW at discharge points along the seeplines. However, concentrations in adjacent surface water remain consistently below MCLs.

3.0 LAND USE

The area encompassed by the GSA Western GW OU is extensively developed and contains numerous active industrial facilities. No future residential use is anticipated. Land use controls will remain in place throughout the GSA Western GW OU to prevent the use of GW that exceeds MCLs. Neither the UTRA nor Gordon Aquifer (GA) is used as a drinking water source at SRS.

4.0 SUBUNITS

The GSA Western GW OU includes the following two subunits:

- GW (i.e., North Plume, West Plume, South Plume), including shallow GW discharging to surface at the seeplines, and
- Surface Water.

In September 2005, the Core Team determined that soil contamination from the potential source units will be addressed during closure of the individual waste units and operating facilities.

4.1 GW Subunit

The UTRA is the shallowest aquifer unit beneath the GSA Western GW OU and is composed of two aquifer zones: the Upper Aquifer Zone (UAZ) and the Lower Aquifer Zone (LAZ). The GA lies beneath the UTRA and is separated from it by the Gordon Confining Unit (GCU). Contamination is present only within the UTRA. Previous investigations have shown that the GA is protected by the competent GCU, preventing contaminant migration into the deeper aquifer.

In 2025, the GSA Western GW OU monitoring program included sampling all 33 monitoring wells, three out of four shallow seepline sampling points (i.e., seepline piezometers), and four of five surface water sampling stations (see Table 1 and Figure 2). With the exception of wells associated with the F-Area Retention Basin (281-3F) and wells FGW 005C, FGW 022C, and FBP 43C for nonvolatile beta sampling, established wells were sampled annually. F-Area Retention Basin wells FRB1, FRB2, FRB3, and FRB4 are sampled semi-annually per the F-Area Retention Basin ROD.

In June 2024, the Core Team approved increasing sampling frequency to quarterly at wells FGW 005C, FGW 022C, and FBP 43C to monitor plume movement downgradient and assess the nonvolatile beta trend at FGW 005C. The Core Team also established a new surface water monitoring location, (UTR-002-FOU) on Waterfall Creek, to be sampled annually. UTR-002-FOU was sampled for the first time in 2025. Newly installed wells

within the GSA Western GW OU are sampled semi-annually until baseline conditions are established, in accordance with Table 1.

Results from the 2025 sampling program are summarized below for the North, West, and South plumes, with detailed analytical data provided in Appendix B.

Since 2011, all locations within the North and West plumes have been sampled for TCE and its degradation products to support evaluation of natural attenuation as a potential future remedy. Cis-1,2-dichloroethylene has been detected historically in the West plume at very low levels, typically below the laboratory analytical quantitation limit (i.e., 1 microgram per liter [µg/L]). In 2025, cis-1,2-dichloroethylene was non-detect (less than detection limit 0.3 µg/L) in all but two wells (FBP 2A [0.46 J µg/L] and FBP 6D [0.66 J µg/L]). Vinyl chloride was non-detect in every well sampled in the North and West plumes in 2025.

GW contaminants within the UTRA include VOCs, radionuclides, and nitrate. Tritium, TCE, and nonvolatile beta are the most widespread contaminants in the OU and are therefore mapped annually. Other constituents are typically co-located with these primary contaminants; for example, TCE is the predominant chlorinated solvent, but tetrachloroethylene (PCE) and trichlorofluoromethane (TCFM) are occasionally present within the same plume areas. Similarly, tritium and nonvolatile beta represent the most widespread radioactive contaminants; although iodine-129, strontium-90, and uranium-238, are also present in portions of these plumes. Mapping the primary contaminants provides a means to evaluate plume distribution and behavior over time.

North Plume 2025

The North plume covers approximately 20.2 ha (50 ac) on the north side of the F-Area industrial facilities. Within this portion of the OU, both the water table and the plume are entirely contained within the LAZ of the UTRA. GW in this zone flows north toward UTRC and its tributaries.

In 2025, GW samples were collected from four wells, one of two seepline piezometers, and two surface water locations. One piezometer (UTR 6) could not be sampled because it was dry. Wells FNB 2 and FNB 5 were unable to be sampled during 2024 due to pump failures; however, the pumps were replaced in the first quarter of 2025, and sampling was completed shortly thereafter (March 2025). In alignment with the GW monitoring program, both wells were sampled again during the second quarter of 2025. Analytical results for the first- and second-quarter sampling events are included in Appendix B.

Previous investigations have identified elevated concentrations of TCE, gross alpha, and nonvolatile beta to the east and north-east of the Old F-Area Seepage Basin (OFASB). In 2002, depth discrete sampling identified TCE concentrations up to 85 µg/L along with elevated gross alpha and nonvolatile beta levels. Sampling locations from that investigation were presented in the November 2005 Scoping Summary. The contamination in this portion of the plume is likely sourced from facilities within the F-Area fence line, including former Naval Fuels operations and the exterior facilities associated with F Canyon (221-F), located on the east and north sides of the canyon building.

During the 2025 monitoring period, TCE concentrations in the North plume were generally consistent with previous years, ranging from non-detect to 7.8 µg/L. The highest concentration was measured at well FNB 15 (7.8 µg/L) (Figure 3). At the adjacent well FNB 13, TCE was detected at 6.72 µg/L. TCE levels at all other North plume locations were below the laboratory quantitation limit (1 µg/L). Both PCE and TCFM remained below their respective MCL in the North plume.

In addition to VOCs, contaminants such as gross alpha, nonvolatile beta, nitrate, iodine-129, strontium-90, and tritium have historically been detected in the UTRA at concentrations exceeding MCLs. In 2025, concentrations were similar to 2024 levels and only slightly above their respective MCLs at most locations. The highest iodine-129 concentration was observed at well FNB 2 near the OFASB, at 8.35 picocuries per liter (pCi/L) which was consistent with historical results (Figure 4) . Iodine-129 also exceeded its MCL (1 pCi/L) at wells FNB 5, FNB 13 and FNB 15.

Tritium concentrations downgradient of the OFASB continue to decline and are now below the MCL, as shown in Figure 5. The long-term decreasing trend since monitoring began in 2000 indicates a shrinking plume and depletion of the tritium source. Nitrate concentrations were similar to last year, with a maximum of 16.5 milligrams per liter (mg/L) at well FNB 15. Nitrate also exceeded the MCL (10 mg/L) at well FNB 13 (10.1 mg/L) but was below the MCL at all other North plume locations in 2025. Nonvolatile beta exceeded its MCL (50 pCi/L) at FNB 13 (93.9 pCi/L), and FNB 13 (58.4 pCi/L). Strontium-90 exceeded its MCL (8 pCi/L) at FNB 2 (11.1 pCi/L), located downgradient of the OFASB. Gross alpha remained below its MCL (15 pCi/L) at all locations in 2025.

Shallow GW discharge in the North plume is monitored at two seepline piezometers, UTR 6 and UTR 16. In 2025, UTR 16 was sampled, while UTR 6 could not be sampled due to dry conditions. Historically, tritium levels at UTR 16 have been near or slightly above the MCL, and Iodine-129 has been intermittently detected above the MCL at both piezometers. During the 2025 sampling at UTR 16, tritium concentrations (2.09 pCi/mL) were below the MCL, while iodine-129 (3.09 pCi/L) exceeded the MCL. Both results were consistent with historical measurements at this location.

In accordance with the monitoring strategy, surface water samples were collected near GW discharge points in 2025. Results from surface water stations UTR-003-FOU and UTR-004-FOU showed very low tritium concentrations, with the highest measured value being 1.72 pCi/mL. Iodine-129 was non-detect at both surface water locations. SRS will continue monitoring iodine-129 in surface water within the North plume area.

Overall, the 2025 results were consistent with those from 2024. The data continue to indicate that the plume remains stable to decreasing in both extent and concentration, and that the North plume is not impacting this tributary to UTRC. Detailed results are provided in Appendix B.

West Plume 2025

The West plume covers approximately 26.3 ha (65 ac) on the western side of F Area. The plume extends through both the UAZ and LAZ of the UTRA. GW in this area generally flows west toward UTRC. In 2025, GW samples were collected from 12 wells, one seepline piezometer, and one of two surface water locations. Surface water station UTR-002-FOU, added to the monitoring network to assess conditions in Waterfall Creek, was sampled for the first time in June 2025. Surface water station UTR-005-FOU was dry and could not be sampled. Results from the monitoring network are provided in Appendix B.

Overall, the West plume consists primarily of VOCs (PCE, TCE, and TCFM), nitrates, and gross alpha/nonvolatile beta constituents. In 2025, exceedances of MCLs were observed for TCE, TCFM, PCE, nitrates, gross alpha, nonvolatile beta, iodine-129, radium-226, radium-228, strontium-90, tritium, uranium-233/234, and uranium-238. VOCs and nitrates remain the most widespread contaminants. VOCs are present beneath the F-Area Burning/Rubble Pits (FBRP) (231-R, 231-1F, and 231-2F) and extend upgradient toward the F-Area facilities. TCE and TCFM are the most prevalent VOCs. The highest TCE concentrations occur on the northwest side of the F-Area facilities at wells FGW 003C, FGW 022C, FBP 43DL and FBP 43C. In 2025, maximum concentrations of TCE and TCFM were measured at FGW 003C (21.8 µg/L) and FBP 43DL (19.8 µg/L), respectively.

TCE concentrations in these wells (FGW 003C, FGW 022C, FBP 43DL and FBP 43C) have been generally stable to decreasing over time (Figure 6). The exception of FGW 003C, which showed declining concentrations until 2015, followed by variable results between sampling events while still maintaining an overall decreasing trend through 2025.

In the distal portion of the plume TCE concentrations remained stable in 2025 (see Figure 7), with a maximum of 8.66 µg/L at well FBP 2A. PCE concentrations reached 5.28 µg/L, slightly lower than the 2024 maximum of 9.8 µg/L. TCFM exceeded the MCL in the distal plume, with a maximum concentration of 10.2 µg/L at well FBP 10D.

The highest concentrations of nitrates, gross alpha, and nonvolatile beta occur near the F-Area facilities perimeter fence and the F-Area Inactive Process Sewer Line (FIPSL), specifically at LAZ wells FGW 005C and FGW 022C. In 2025, the maximum nitrate (53.6 mg/L), gross alpha (1,870 pCi/L) and nonvolatile beta (1,160,000 pCi/L) concentrations were all observed at well FGW 005C. Nitrate and gross alpha results at FGW 005C fall within historical ranges; however, nonvolatile beta has been significantly above historical levels since 2022, as shown in Figure 8. Additional discussion of nonvolatile beta in the LAZ appears in the section titled "*Supplemental Information for the West Plume*."

Isotopic analysis indicates that elevated gross alpha at FGW 005C is attributable to radium-226 (maximum 925 pCi/L), uranium-233/234 (maximum 397 pCi/L) and uranium-238 (maximum 1,300 pCi/L). Beta activity includes strontium-90 (492,000 pCi/L) and technetium-99 (750 pCi/L). Isotopic speciation results for FGW 005C, FGW 022C and FBP 043C are provided in Appendix A.

Prior to 2023, the historical maximum nonvolatile beta concentration at well FGW 022C was 481 pCi/L. Since 2023, nonvolatile beta has shown an upward trend at this location, increasing from 558 pCi/L in 2023 to a maximum of 4,700 pCi/L in 2025 (Figure 9). Strontium-90 has followed a similar pattern, rising from 24.5 pCi/L in 2023 to a maximum of 1,730 pCi/L in 2025. These increasing concentrations likely reflect the downgradient migration of the leading edge of the plume observed at well FGW 005C. Aquifer pH at FGW 022C remains near historical levels (approximately 4), which influences strontium solubility. In contrast, pH levels upgradient at FGW-005C have recently been as low as 2.9.

Further downgradient, nonvolatile beta concentrations at FBP 043C remain within the historical range observed over the past 15 years, indicating that the elevated nonvolatile beta at FGW 005C has not impacted groundwater at FBP 043C. Historically in the West plume, concentrations of gross alpha and nonvolatile beta attenuate rapidly with distance from the F-Area facilities. As shown in Figure 10, the nonvolatile beta plume terminates approximately half-way between the F-Area fence line and the wetlands of UTRC. SRS

will continue to monitor nonvolatile beta at FGW 005C and at downgradient monitoring locations to ensure that plume migration does not pose a threat to surface water.

Since 2006, PCE, TCE, and TCFM have been detected in GW near the seepline at piezometer UTR 018R; however, surface water samples collected at UTR-005-FOU have historically been non-detect for VOCs. In 2025, all VOCs in GW at UTR 018R were below their respective MCLs.

Historically, nonvolatile beta at UTR 018R has remained below its MCL, with a maximum value of 48 pCi/L (recorded in 2013), and gross alpha has never been detected above the analytical quantitation limit. However, in 2024, both parameters were reported above their MCLs - gross alpha at 146 pCi/L and nonvolatile beta at 268 pCi/L. These results appear anomalous, given that the previous samples from 2022 were non-detect for both constituents (gross alpha: 1.89 pCi/L; nonvolatile beta: 13.4 pCi/L). The 2024 sample also exhibited very high turbidity (320 NTU). Combined with low gross alpha and nonvolatile beta levels at upgradient wells, the elevated 2024 concentrations are likely attributed to turbidity related particulate matter rather than to changes in GW quality or impacts from upgradient sources.

To verify the 2024 results, SRS collected both filtered and non-filtered samples from UTR 018R in 2025. The 2025 results confirm that the 2024 values were anomalous. Unfiltered concentrations were 16.6 pCi/L (gross alpha) and 40 pCi/L (nonvolatile beta), while filtered concentrations were significantly lower at 1.58 pCi/L and 9.04 pCi/L, respectively. Sample turbidity in 2025 was substantially lower (31.3 NTU), further supporting that the elevated 2024 values were turbidity-driven rather than reflective of true GW conditions.

UTR 018R is located at the base of a slope in an area of localized GW seeps where GW discharge rates are low and standing water is not present year-round. The seepline is approximately 182.9 meters (600 feet) from UTRC, and seepage water typically infiltrates back into the ground or evaporates before reaching the creek. Historically, all constituent concentrations at downstream surface water station UTR-005-FOU have been below their

MCLs. In 2025, a sample could not be collected at UTR 005-FOU because the location was dry.

Overall, the 2025 data indicate that the plumes remain stable in extent and concentrations, with the exception of nonvolatile beta at FGW 005C and FGW 022C. Both the VOC and nonvolatile beta plumes terminate prior to discharging at seeps to UTRC. Continued monitoring is recommended for the West plume. Monitoring results for 2025 are provided in Appendix B.

Supplemental Information for the West Plume

This supplemental section provides additional discussion on the increased levels of nonvolatile beta observed in the LAZ of the West Plume, along with the associated management approach.

Nonvolatile beta and gross alpha have been known to exist in the LAZ since at least 1996, when they were detected during characterization activities conducted upgradient of the FBRP. Nonvolatile beta has been present at FGW 005C since it was first sampled in 2006 (see Figure 8). Between 2006 and 2013 concentrations fluctuated between 62.5 pCi/L to 2,540 pCi/L. Beginning in 2013, nonvolatile beta levels at FGW 005C began steadily increasing reaching 7,766 pCi/L in 2021. Due to this increase, procedural changes were necessary to support subsequent sampling in 2022. Sampling conducted in October 2022 recorded nonvolatile beta and strontium-90 concentrations of 938,000 pCi/L and 571,000 pCi/L, respectively – the latter being the primary contributor to beta activity. In 2025, levels remained elevated, with maximum concentrations of 1,160,000 pCi/L (nonvolatile beta) and 492,000 pCi/L (strontium-90).

The source of the increased nonvolatile beta and strontium-90 detected at FGW 005C remains unknown. Few monitoring wells constructed to modern standards exist within the interior of the F-Area Facilities (Figure 11), limiting the ability to characterize GW conditions within the facility boundary. Potential sources include nearby process sewer lines (i.e., FIPSL and Active F-Area Process Sewer Line), the 772-F Laboratory

underground waste tanks, and the 221-F Canyon and associated ancillary facilities. All are known, based on process knowledge, to have contained or handled radioactive materials including strontium-90. Considering groundwater flow direction and the depth at which contamination is observed (in the deeper LAZ), the 221-F Canyon and its ancillary facilities are the most likely source. The F Area Operable Unit (SEMS Number 88) which includes combined spills from 221-F and its ancillary facilities, is scheduled for a characterization field start in 2035.

In late 1979, a series of 14 wells were installed around the perimeter of the 221-F Canyon Building. These wells pre-date standardized construction specifications, and available records do not sufficiently document how the borehole annular spaces were sealed. As a result, these wells may provide pathways for water at the surface to migrate downward along the well casings. During the June 2024 Core Team meeting, it was agreed that the status of these 1970 era wells would be verified and any that had not been previously abandoned would be properly abandoned. SRS confirmed that 8 of the 14 wells were already abandoned, and the remaining six were abandoned in 2026. Two additional wells, FCA 19D (installed 1988) and FCA 9DR (installed 1991) were constructed according to modern standards and have properly sealed annular spaces; therefore, SRS recommends retaining these wells for potential future characterization work.

SRS does not believe the elevated strontium-90 at FGW 005C poses an immediate threat to surface water at this time. Groundwater velocity in the LAZ is approximately 40 feet/year, and the distance between FGW 005C and the Upper Three Runs seepline is approximately 3,600 feet. Assuming no retardation, it would take approximately 90 years for strontium-90 to reach the seepline of Upper Three Runs at UTR 018R and UTR-005-FOU. This provides significant time and distance for natural attenuation to occur. Strontium-90 mobility increases at pH values below 5.5, and the acidic pH (approximately 3.5) in the source area may have enhanced transport to FGW 005C. However, downgradient geochemical conditions favor attenuation. The Santee formation within the LAZ contains calcareous sediments that naturally increase aquifer pH to values above 7 by the time GW reaches FBP 43C. These conditions promote immobilization of strontium-

90. Natural attenuation of alpha- and beta-emitting constituents in the West Plume has been observed for more than 15 years and is expected to continue.

Characterization work conducted in 2004 - 2005 demonstrated that the West Plume was not discharging contamination to the tributary north of the plume (informally known as Waterfall Creek; see Figure 10) as no plume-related constituents were detected in surface water. The primary flow path of the West Plume is toward the west-southwest. However, given the elevated nonvolatile beta and strontium-90 in the LAZ, SRS evaluated Waterfall Creek for an appropriate surface water monitoring location and established station (UTR-002-FOU) for annual sampling. The station is positioned at an elevation low enough to receive any potential LAZ discharge, ensuring that impacts to surface water can be identified. This approach is consistent with the OU monitoring strategy. UTR-002-FOU was sampled for the first time in the second quarter of 2025 and results showed very low concentrations of nitrate (0.97 mg/L), gross alpha (0.861 J pCi/L) and nonvolatile beta (3.4 pCi/L).

SRS has also increased the sampling frequency from annually to quarterly at FGW 005C and at two downgradient wells, FGW 022C and FBP 43C. These three LAZ wells will be analyzed for gross alpha and nonvolatile beta and will undergo alpha and beta speciation to better evaluate the trends in nonvolatile beta and strontium-90 concentrations at FGW 005C.

South Plume 2025

The South plume covers approximately 22.3 ha (55 ac) on the southwest corner of F Area. The plume extends through both the UAZ and LAZ of the UTRA. GW flow in this portion of the OU is generally toward the southwest and discharges to UTRC. In 2025, GW samples were collected from 13 monitoring wells, and analytical results are presented in Appendix B.

The South plume is composed primarily of tritium and nonvolatile beta. VOCs are not present in this plume. Radionuclides historically detected above their MCLs include iodine-129, strontium-90, radium-226, radium-228, technetium-99, and tritium. SRS

believes these contaminants originate from the FIPSL, which is addressed in the F-Area Hazardous Waste Management Post Closure RCRA Permit Renewal Application. Potential release mechanisms include historical leaks along portions of the FIPSL. A known collapsed section of the vitrified clay process sewer line is located downgradient of the Tank Farm (see Figure 2). Potential sampling locations near the collapse cannot currently be accessed due to interferences from aboveground power lines and active steam lines.

In 2025, nonvolatile beta remained the most widespread contaminant, with concentrations exceeding 50 pCi/L MCL in 7 of the 13 wells. Concentrations ranged from 52.8 pCi/L (BRR 6D) to 862 pCi/L (FTF 28). Historically, elevated concentrations have been observed near wells FTF 28 and FSL 5D (adjacent to the FIPSL collapsed section), as well as at downgradient well FGW 12C. Figure 13 shows that nonvolatile beta concentrations have remained stable over time near the facility area (FTF 28) and further downgradient along the plume's flow path (BRR 6C and FGW 12C). Additionally, concentrations at seepline groundwater sampling location FGW023 and surface water location FGW024 remain unimpacted.

Several radionuclides and related constituents also exceeded MCLs in 2025 at wells located along or near the FIPSL, including iodine-129, gross alpha, nitrate, strontium-90, radium-226, radium-228, technetium-99, and tritium. Maximum concentrations included iodine-129 at 26.6 pCi/L, nitrate at 19.1 mg/L, technetium-99 at 1,250 pCi/L, and tritium at 106 pCi/mL. Nitrate and tritium, which are more mobile, had their highest concentrations at downgradient well FGW 12C rather than directly adjacent to the FIPSL.

Overall, the 2025 results are consistent with those from 2024. Complete monitoring results for 2025 are provided in Appendix B.

In 2025, shallow GW discharging to the surface was monitored using one seepline piezometer (FGW 023). Historically, nitrate, gross alpha, radium-226, radium-228, nonvolatile beta, technetium-99, and tritium have been detected at this location, but always at very low concentrations below their respective MCLs. The 2025 sampling results show

that these constituents remain present at low levels below MCLs in shallow groundwater at FGW 023.

Surface water samples were also collected in 2025 near GW discharge point at FGW 024. Nitrate, gross alpha, nonvolatile beta, radium-226, and tritium were detected, but at very low concentrations below MCLs. Iodine-129 was not detected at FGW 024. The 2025 results continue to indicate that the South plume is not impacting this tributary to UTRC. Detailed results are provided in Appendix B.

F-Area Retention Basin

The Core Team previously agreed to incorporate the monitoring and reporting for the F-Area Retention Basin (FRB) (281-3F) into this report. The GSA Western GW OU monitoring network includes four FRB wells (FRB 1 through FRB 4), as shown in Figure 2 and detailed in Table 1. In accordance with the FRB OU ROD, these wells are sampled semi-annually. In 2025, samples were collected during the second and fourth quarters. All 2025 results were below their respective MCLs at the FRB. Analytical data are provided in Appendix B.

4.1.1 Problem Warranting Action

- VOCs, nitrate, and radionuclides in the UTRA are present at levels that exceed the respective MCLs.
- VOCs and radionuclides have been present in GW at the seepline at levels above the MCLs.

4.1.2 Remedial Action Objectives

- Ensure that contaminants in GW do not impact surface water at levels that exceed MCLs.
- Prevent human exposure to contaminants in GW at levels that exceed MCLs.

4.1.3 Scope of Problem

- GW contaminants in the UTRA include VOCs, radionuclides, and nitrate. Tritium, TCE, and nonvolatile beta are recognized as the most widespread contaminants in the GW at the OU. Figures 3, 11, and 12 show the distribution of these contaminants in the UTRA during 2025.

4.1.4 Likely Response Actions

- Continue monitoring the GW in the UTRA and at the seepline on an annual frequency, except for FGW 005C and two wells downgradient (FGW 022C and FBP 43C) to monitor plume movement downgradient and better understand the trend of nonvolatile beta and strontium-90 concentrations at FGW 005C.

4.1.5 Uncertainties

- There is some uncertainty regarding the potential sources of shallow GW contamination due to the number of operating facilities and waste units within the boundaries of the GSA Western GW OU. Individually and collectively, these facilities and waste sites have contaminated the shallow aquifer that underlies this GW OU. The closure of the F-Area facilities will manage the uncertainties associated with residual sources. The uncertainty regarding source areas will ultimately be addressed by the F-Area OU remedial investigation (prior to Area Closure). Until then, the impact of the combined sources on GW will be tracked by continued GW monitoring in the GSA Western GW OU. The well network for each plume area, sampling frequency, and specific analyte lists are summarized in Table 1.

4.2 Surface Water

Shallow GW within the OU discharges to surface water at seepline locations along UTRC and Fourmile Branch. The Phase 1 Work Plan states that if GW contamination is detected at the seeplines above the MCLs, surface water quality in the receiving streams will be evaluated. Four surface water sample locations are included in the GW monitoring plan for this purpose (see Figure 2). In June 2010, the Core Team agreed that surface water would be sampled at the same frequency as GW.

Characterization and monitoring data indicate that GW contamination above MCLs occurs at a few seepline locations within the OU. At the North and West plumes, GW at the seepline has historically exceeded MCLs for tritium, strontium-90, iodine-129, and VOCs. However, 2025 surface water sampling results show that contaminant concentrations in tributaries to UTRC remain below MCLs.

4.2.1 Problem Warranting Action

- No problems warranting action have been identified for surface water at the OU.

4.2.2 Remedial Action Objectives

- To date there were no confirmed MCL exceedances in surface water; therefore, remedial action objectives are not applicable at this time.

4.2.3 Surface Water Scope of Problem Warranting Action

The GSA Western GW OU contains three distinct areas of GW contamination. Since routine monitoring started in 2005, two of these plumes, the North plume and the West plume, have been above MCLs in GW near the discharge zone to the seeplines. In 2025, the North plume groundwater at the seepline was slightly above the MCL for iodine-129 at a concentration of 3.09 pCi/L. However, iodine-129 was non-detect at both North plume surface water locations UTR-003-FOU and UTR-004-FOU. The West plume groundwater at the seepline was slightly above the MCL for gross alpha at a concentration of 16.6 pCi/L at UTR 018R. The West plume surface water location UTR-005-FOU was unable to be sampled due to dry conditions in 2025. However, historically confirmation sampling of the surface water has demonstrated that contaminant levels have been and continue to be below MCLs in the tributaries to UTRC.

4.2.4 Surface Water Likely Response Actions

- Monitoring of surface water per the schedule in Table 1.

4.2.5 Uncertainties

- It is uncertain if surface water of tributaries to UTRC will be impacted by GW discharging from the North and West plumes. Historically, at some of the seepline locations contaminants have been detected above the MCL in GW. However, the associated streams continue to remain below MCLs for all contaminants. As more data is obtained, trends will be developed as necessary. This uncertainty is managed by monitoring surface water in the tributaries to UTRC. Sample locations and analytes are summarized in Table 1.

5.0 Operable Unit Strategy

- SRS will sample the monitoring network annually for contaminants of concern unless the frequency is modified through future Core Team agreements. In June 2024, the Core Team approved increasing the sampling frequency to quarterly at wells FGW 005C, FGW 022C, and FBP 43C to monitor downgradient plume movement and to better understand the trend in nonvolatile beta concentrations at FGW 005C. The Core Team also established a new surface water monitoring location, UTR-002-FOU, on Waterfall Creek to be sampled annually; this station was sampled for the first time in 2025. New GW and surface water monitoring locations added to the GSA Western Groundwater OU will be sampled semi-annually until baseline conditions are established. Data trends will be used to support evaluation, and findings will be reported in an annual update to this Scoping Summary.
- SRS will convene the Core Team annually (or as necessary) to review data; re-evaluate the well network, sampling frequency, and analyte list; assess the effectiveness of the OU strategy; and determine whether the monitoring approach remains appropriate or requires modification (including the need for immediate action).
- SRS will promptly notify the Core Team if monitoring data indicate a problem that requires immediate attention.

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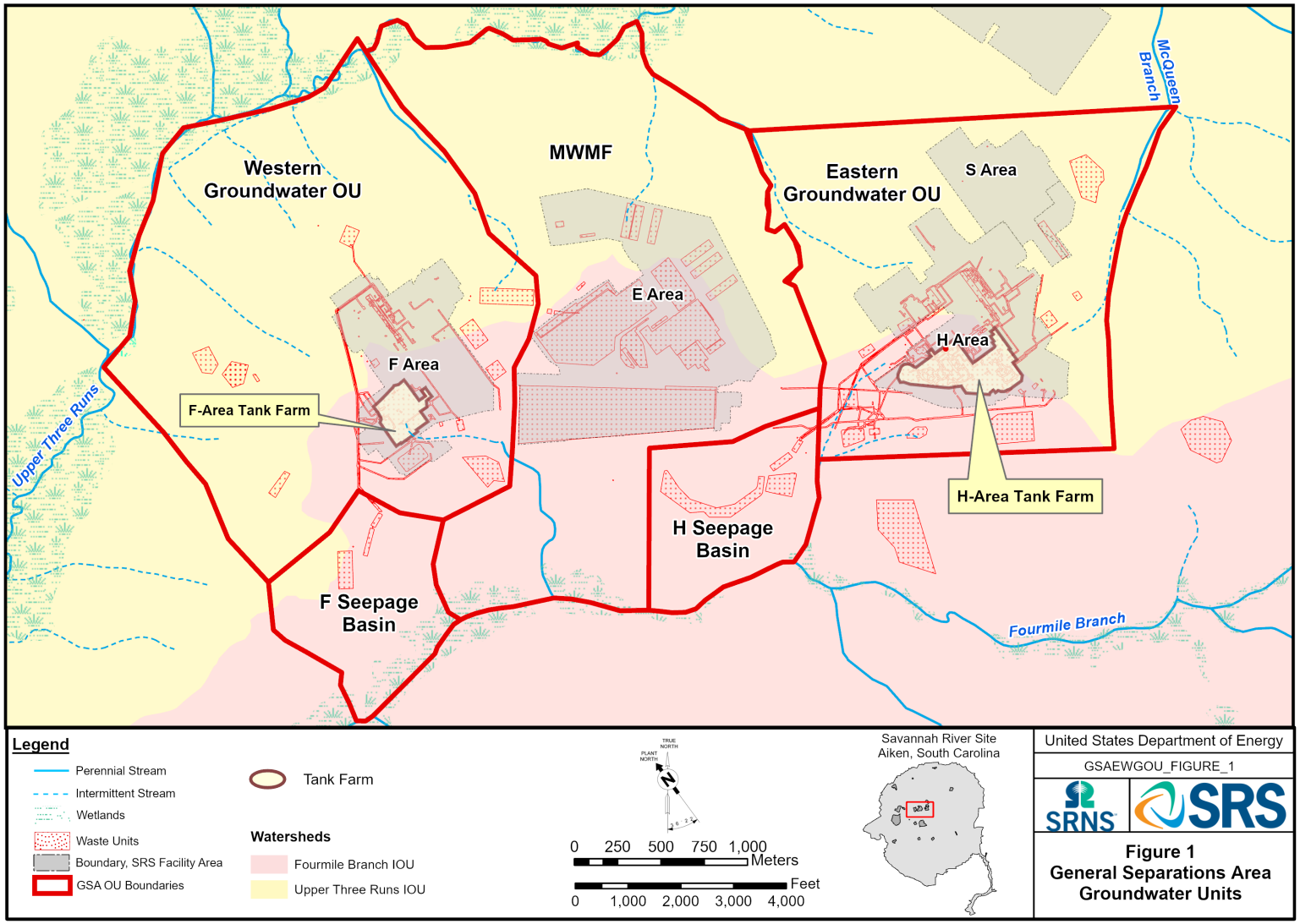


Figure 1. Groundwater Operable Units at the General Separations Area

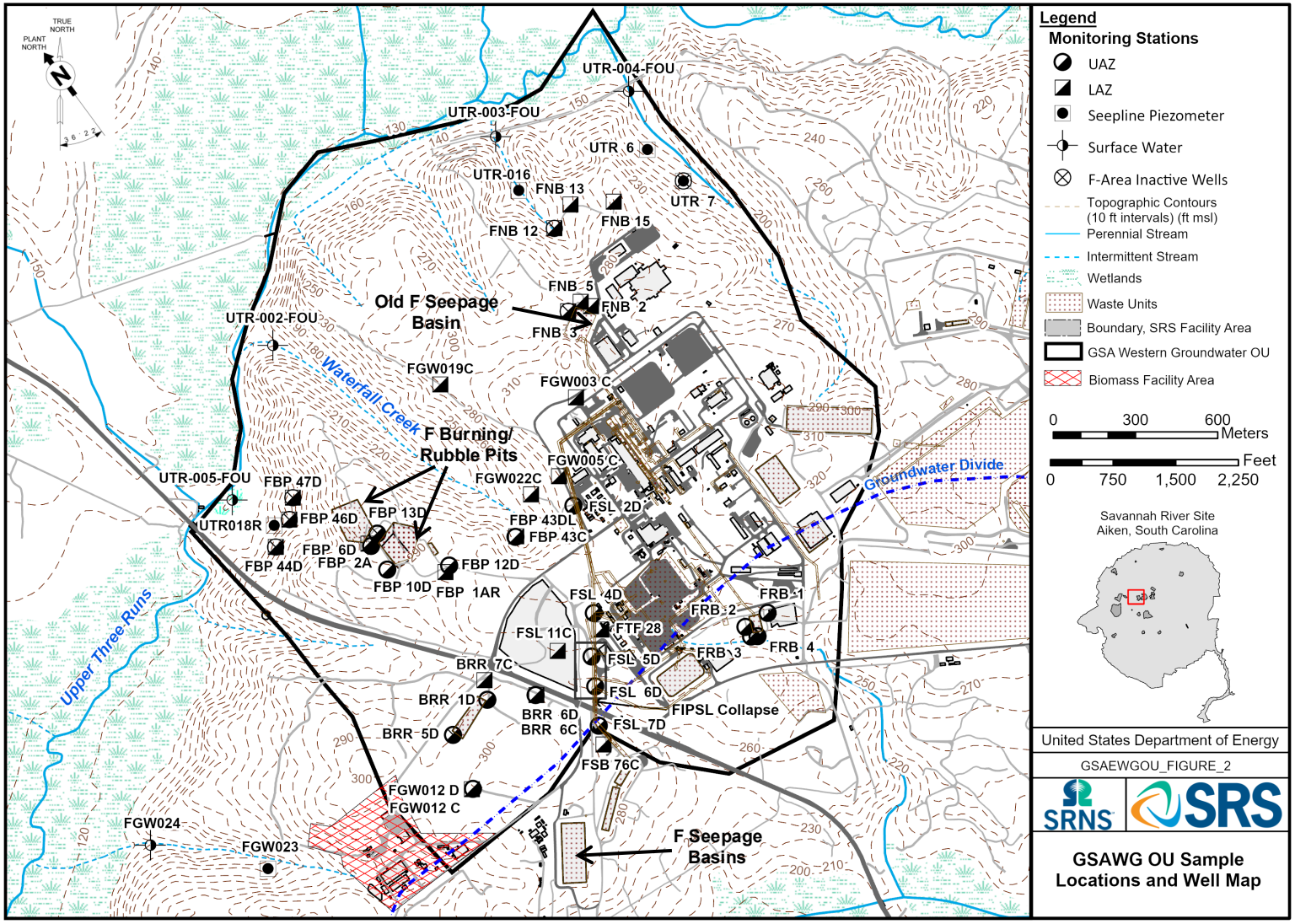


Figure 2. GSA Western Groundwater OU Sample Locations and Well Map

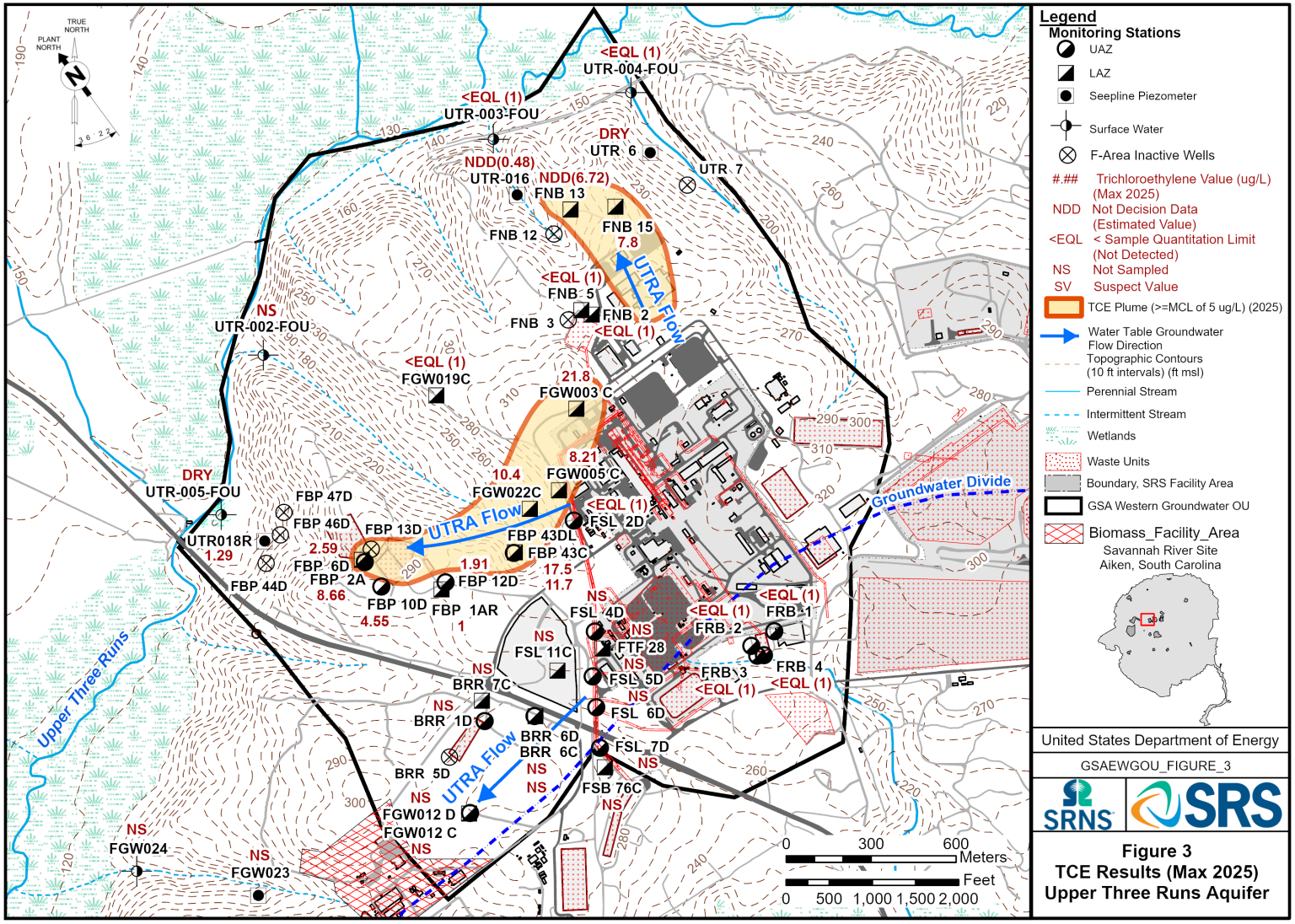


Figure 3. Trichloroethylene Results (Max 2025) Upper Three Runs Aquifer

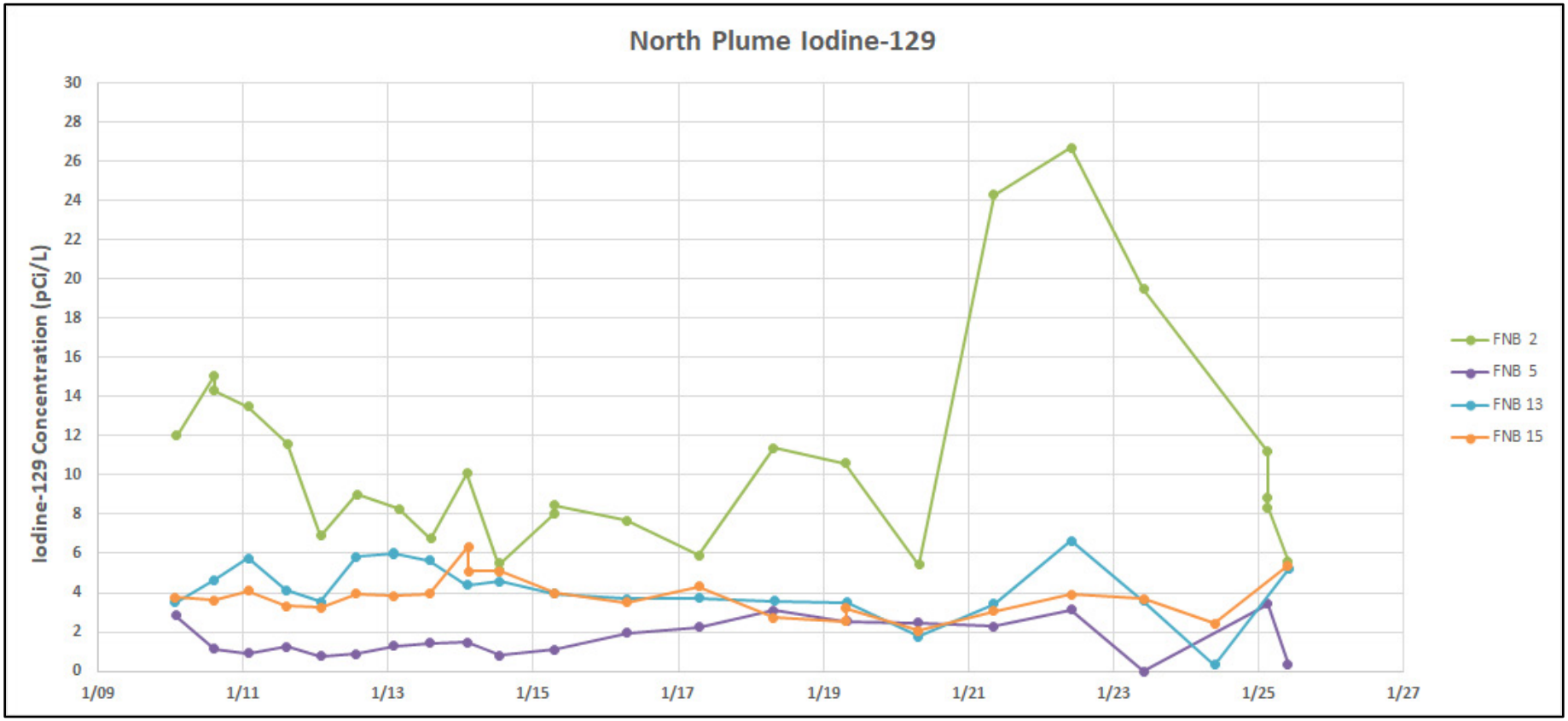


Figure 4. Time Series for Iodine-129 in the North Plume

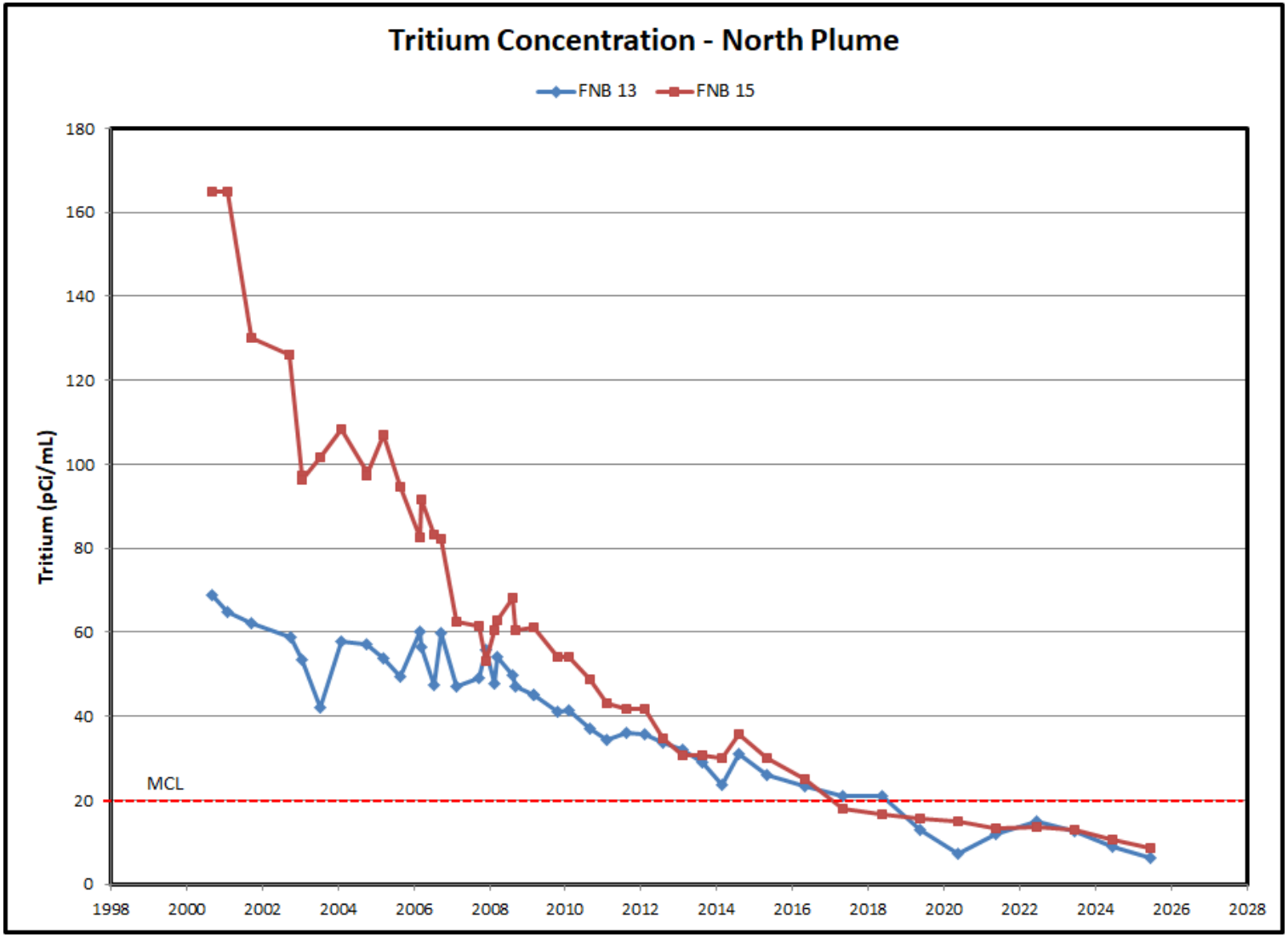


Figure 5. Tritium Concentration in the North Plume

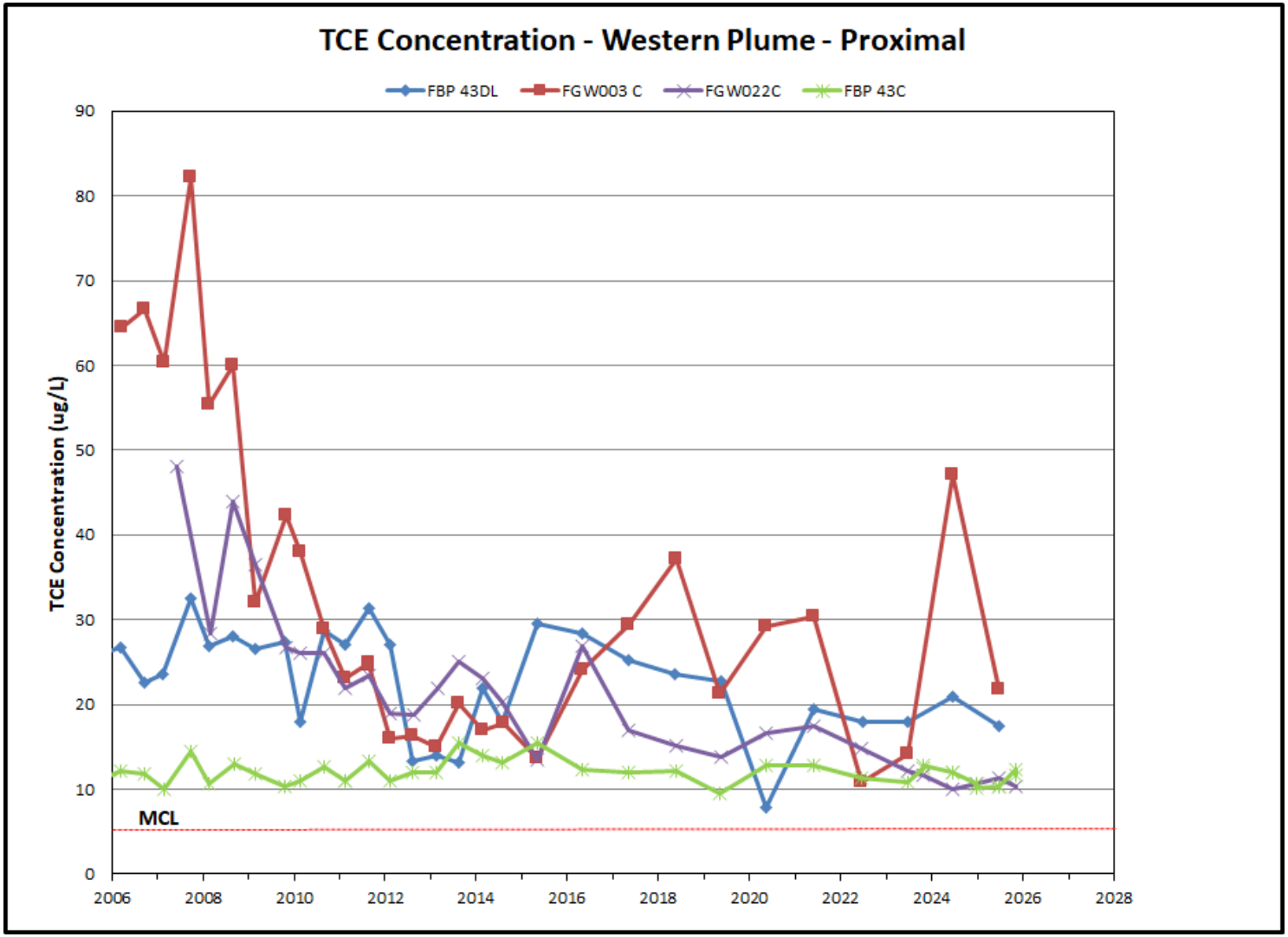


Figure 6. TCE Concentration Near the Source in the West Plume

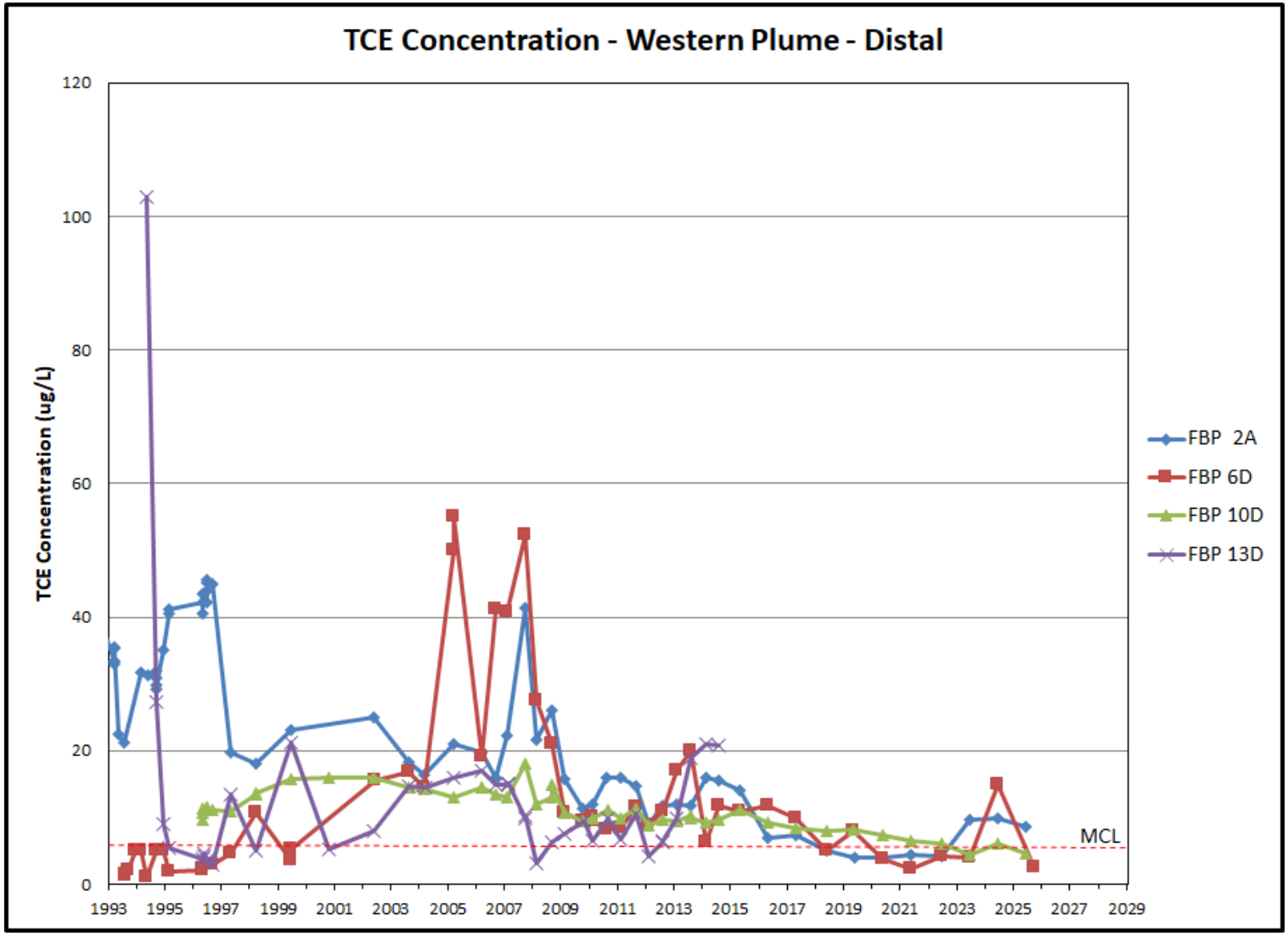


Figure 7. TCE Concentrations in the Distal Part of the West Plume

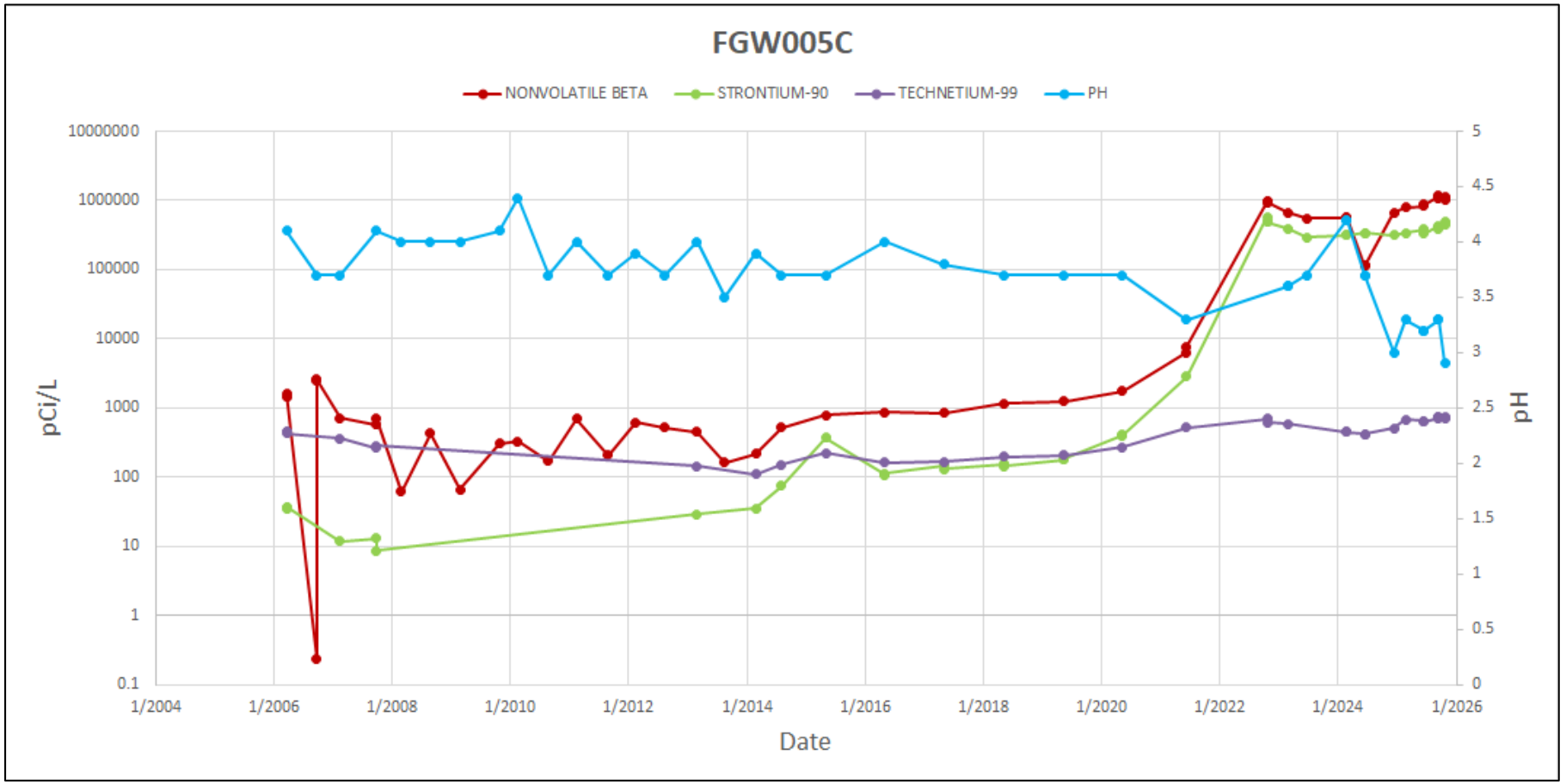


Figure 8. Nonvolatile Beta and Beta Constituent Concentrations at FGW 005C

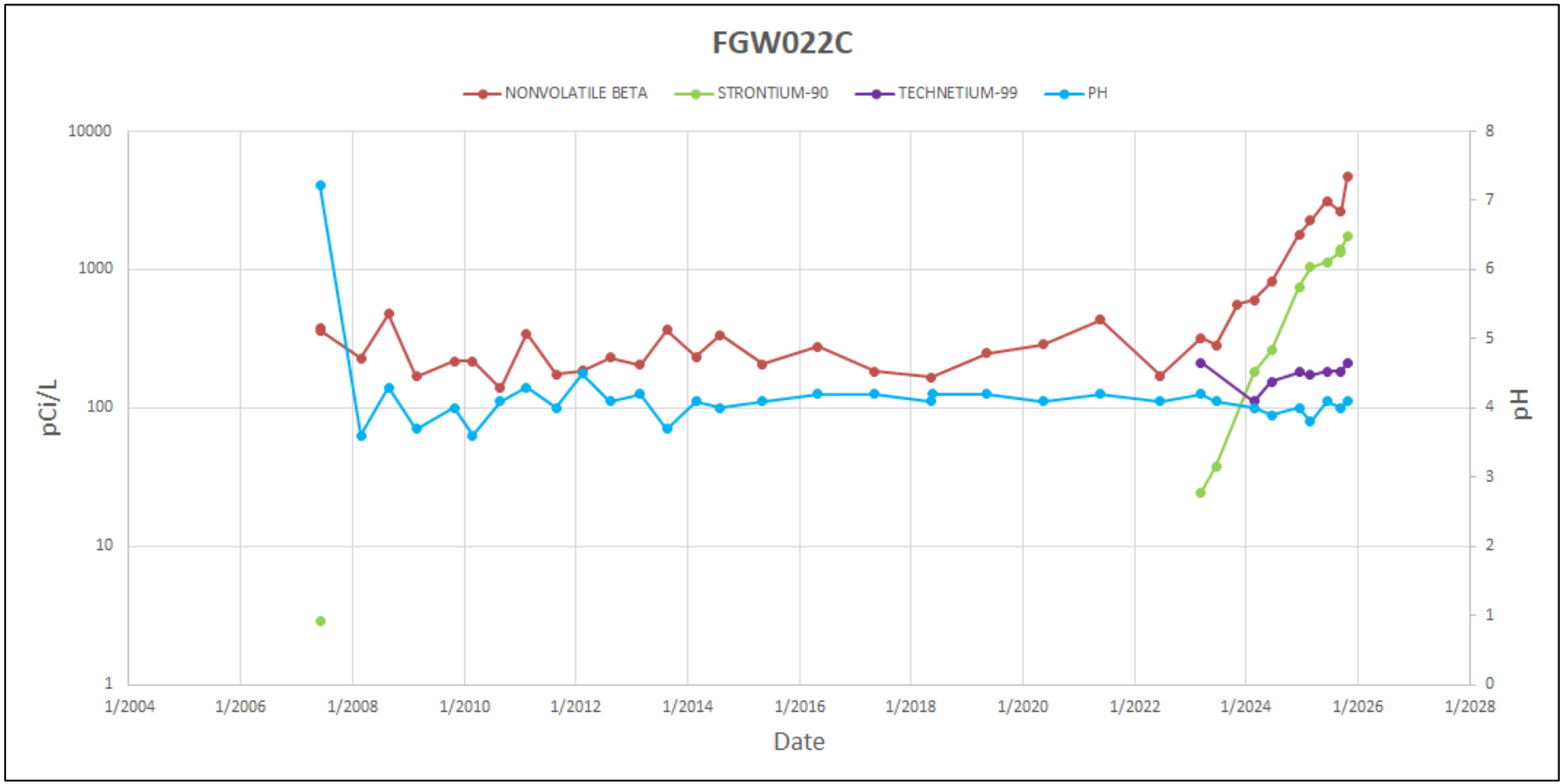


Figure 9. Nonvolatile Beta and Beta Constituent Concentrations at FGW 022C

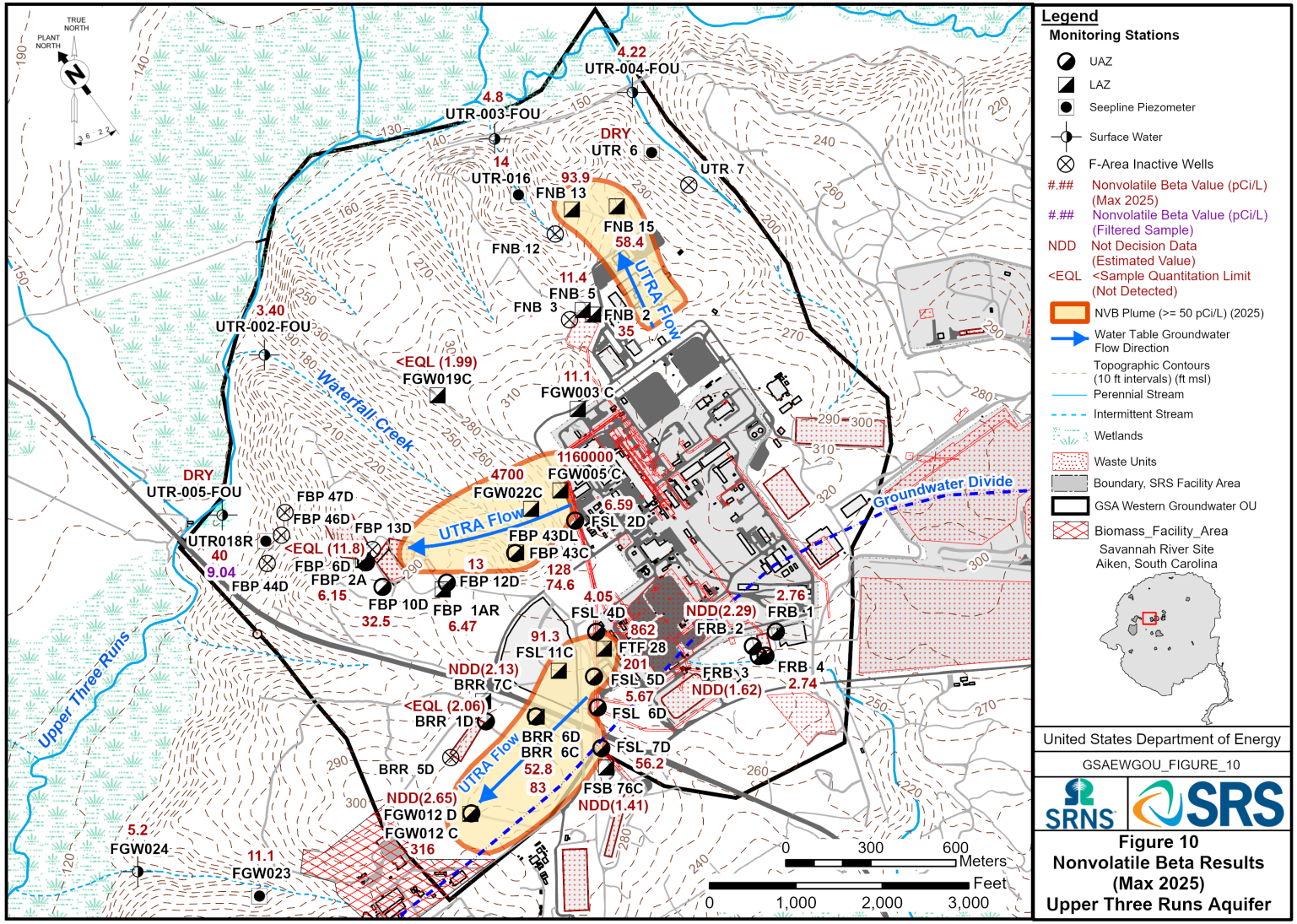


Figure 10. Nonvolatile Beta Results (Max 2025) Upper Three Runs Aquifer

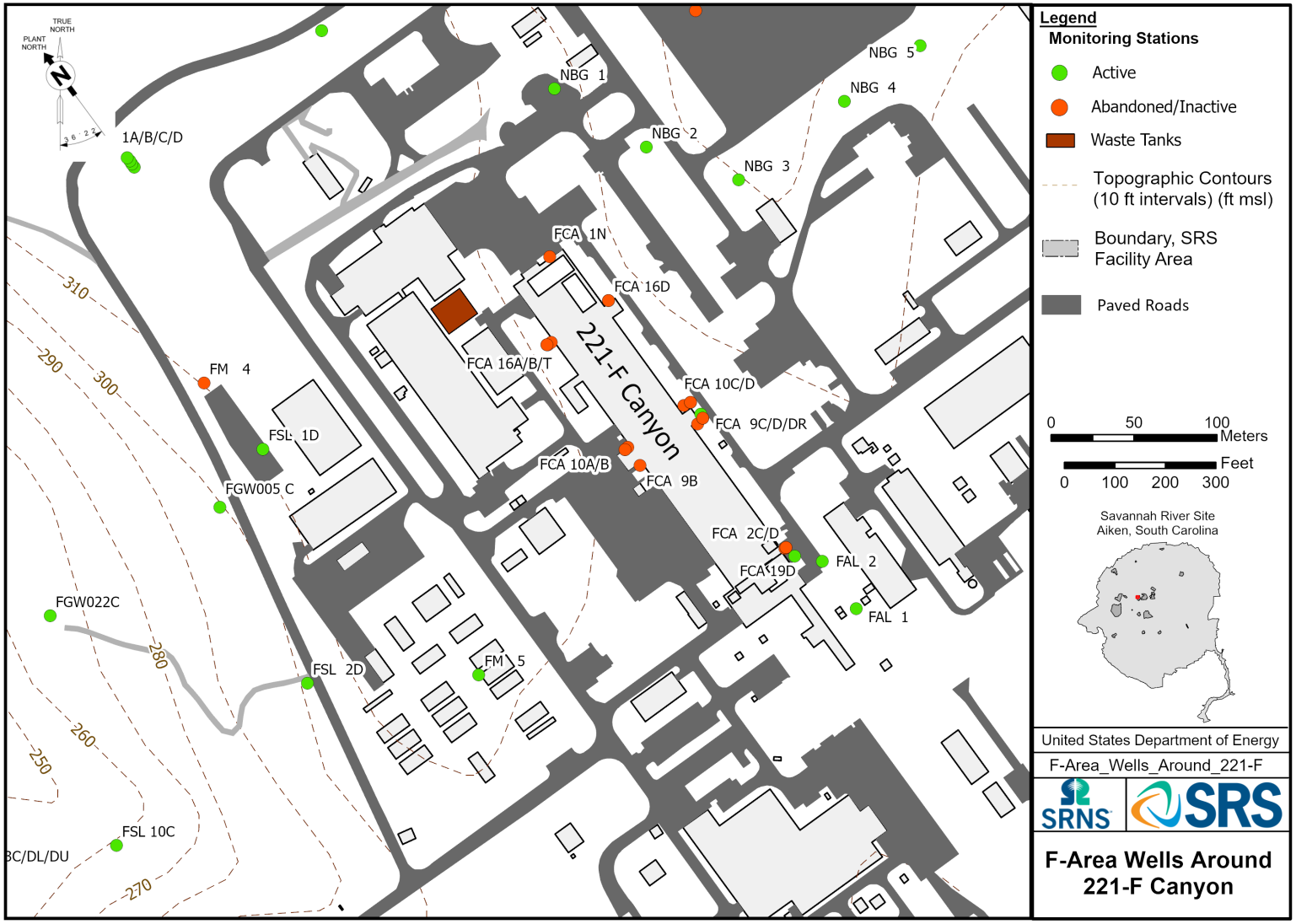


Figure 11. F-Area Wells around 221-F Canyon

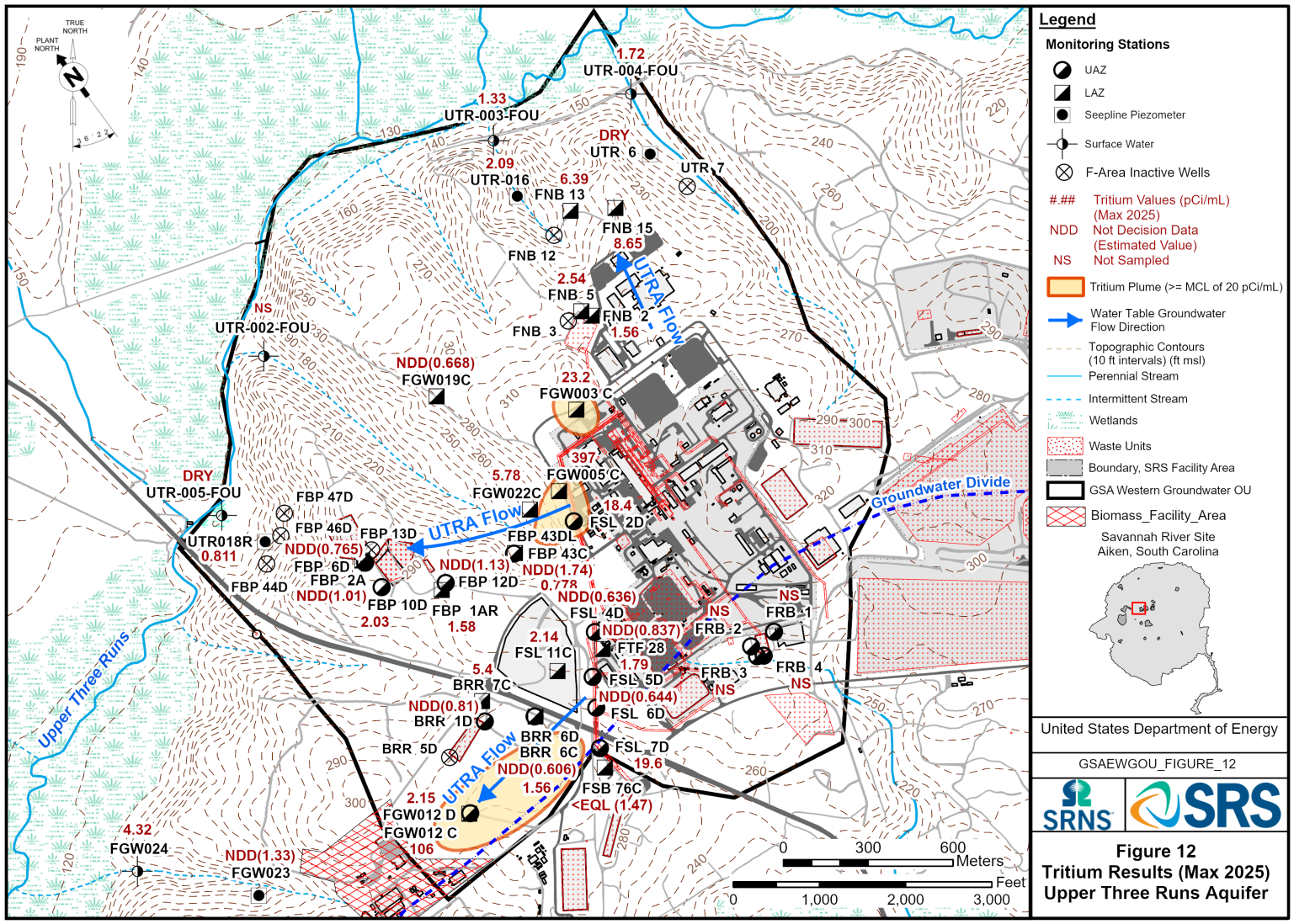


Figure 12. Tritium Results (Max 2025) Upper Three Runs Aquifer

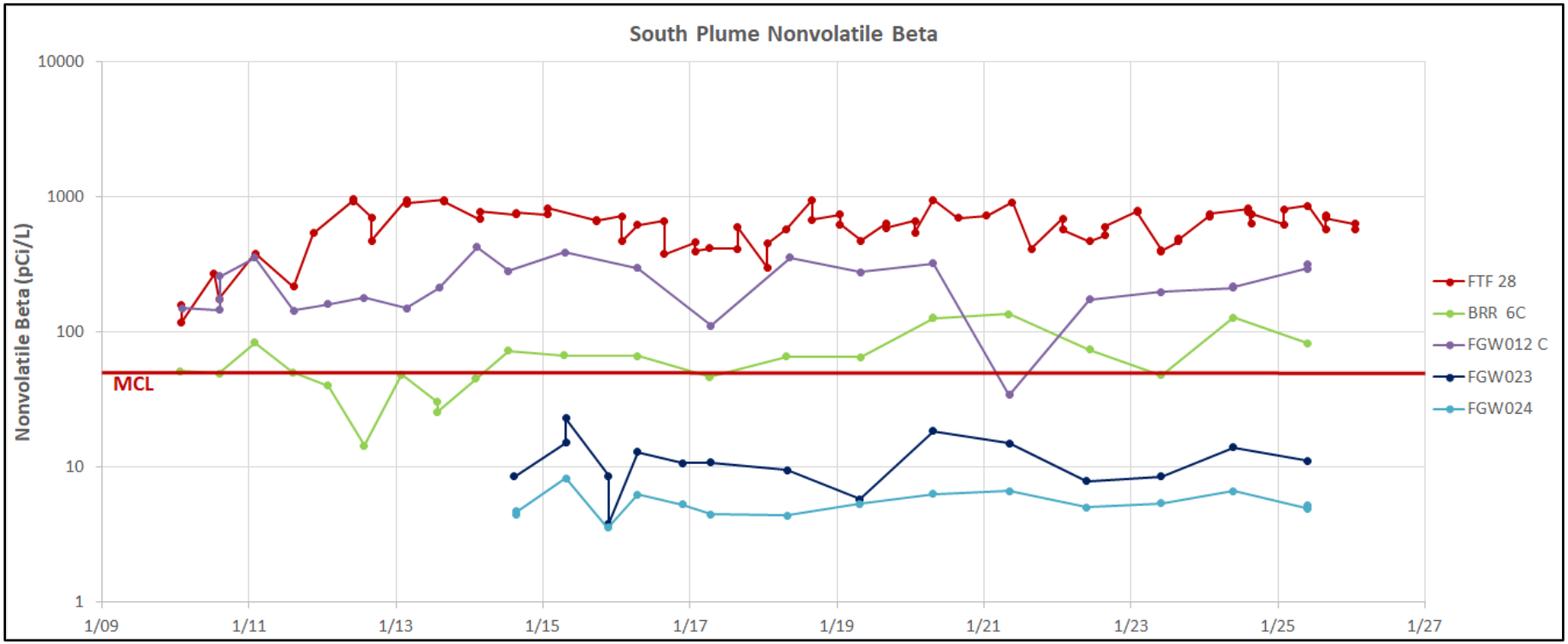


Figure 13. Time Series for Nonvolatile Beta in the South Plume

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Table 1. Monitoring Network

Plume Description	Aquifer Zone	Well ID	Analyte List
West Plume	UAZ of UTRA	FBP10D, FBP6D, FBP12D, FBP43DL, FSL2D	Nitrate, gross alpha, nonvolatile beta, tritium, and TCL VOCs, water quality parameters*
	LAZ of UTRA	FBP 1AR, FBP2A, FBP43C, FGW003C, FGW005C, FGW019C, FGW022C	Alpha and beta/gamma speciation for FGW005C, FGW022C, and FBP43C (sampled quarterly)
	Seepline/ Surface Water	UTR18R, UTR-005-FOU, UTR-002-FOU	At surface water locations: field parameters for VOC degradation and degradation products
North Plume	LAZ of UTRA	FNB2, FNB5, FNB13, FNB15	Nitrate, gross alpha, nonvolatile beta, tritium, iodine-129, strontium-90, and TCL VOCs, water quality parameters*
	Seepline/ Surface Water	UTR16, UTR6, UTR-003-FOU, UTR-004-FOU	
South Plume	UAZ of UTRA	BRR1D, BRR6D, FSL4D, FSL5D, FSL6D, FSL7D, FSB76C, FGW012D	Nitrate, gross alpha, nonvolatile beta, tritium, iodine-129, radium-226, 228, strontium-90, technetium-99, uranium-233/234, 238, water quality parameters*
	LAZ of UTRA	BRR6C, BRR7C, FTF28, FSL11C, FGW012C	
	Seepline/ Surface Water	FGW024, FGW023	
F Area Retention Basin	UAZ of UTRA	FRB1, FRB2, FRB3, FRB4	Gross alpha, nonvolatile beta, cesium-137, strontium-90, radium-226, TCE, water quality parameters*

*Water quality parameters include pH, conductivity, alkalinity, and turbidity.

- Sampling of the monitoring network is performed annually for existing wells starting in 2014 except for the F-Area Retention Basin. The FRB wells are sampled semi-annually according to the ROD. New monitoring locations added to the OU will be sampled semi-annually until a baseline is established. The monitoring network was revised during the August 2013 scoping meeting based on the Monitoring Optimization White Paper, SRNS-RP-2012-00783, Rev. 1, January 2014.
- Sample locations are shown on Figure 2. FBP-45D was abandoned in 2009.

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APPENDIX A

Isotopic Speciation Results for FGW 005C, FGW 022C, and FBP 043C

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FBP 43C	10/29/2025	ACTINIUM-228	26.4	69.4	U	U	16	pCi/L
FBP 43C	10/29/2025	ACTINIUM-228	19.1	68.3	U	U	5.52	pCi/L
FBP 43C	10/29/2025	ACTINIUM-228	26.3	68.1	U	U	1.27	pCi/L
FBP 43C	6/16/2025	ACTINIUM-228	49.0	100	U	U	-5.87	pCi/L
FBP 43C	6/16/2025	ACTINIUM-228	38.5	76.5	U	U	-8.86	pCi/L
FBP 43C	6/16/2025	AMERICIUM-241	0.100	0.288	U	U	0.0334	pCi/L
FBP 43C	6/16/2025	AMERICIUM-241	0.214	0.358	U	U	-0.0312	pCi/L
FBP 43C	10/29/2025	ANTIMONY-125	14.7	30.1	U	U	4.4	pCi/L
FBP 43C	10/29/2025	ANTIMONY-125	13.5	27.7	U	U	4.11	pCi/L
FBP 43C	6/16/2025	ANTIMONY-125	24.9	48.3	U	U	1.77	pCi/L
FBP 43C	10/29/2025	ANTIMONY-125	14.6	30.8	U	U	1.21	pCi/L
FBP 43C	6/16/2025	ANTIMONY-125	20.1	40.9	U	U	-3.1	pCi/L
FBP 43C	10/29/2025	BARIUM-133	6.49	15.0	U	U	5.25	pCi/L
FBP 43C	6/16/2025	BARIUM-133	14.7	28.5	U	U	5.11	pCi/L
FBP 43C	10/29/2025	BARIUM-133	5.96	16.3	U	U	3.13	pCi/L
FBP 43C	10/29/2025	BARIUM-133	6.31	13.9	U	U	0.405	pCi/L
FBP 43C	6/16/2025	BARIUM-133	10.0	20.4	U	U	-2.27	pCi/L
FBP 43C	6/16/2025	BISMUTH-214	29.9	56.7	U	U	14.9	pCi/L
FBP 43C	10/29/2025	BISMUTH-214	8.57	36.2	J	J	14.3	pCi/L
FBP 43C	10/29/2025	BISMUTH-214	9.92	44.3	U	U	9.53	pCi/L
FBP 43C	6/16/2025	BISMUTH-214	24.6	49.8	U	U	1.31	pCi/L
FBP 43C	10/29/2025	BISMUTH-214	12.4	35.4	U	U	0.127	pCi/L
FBP 43C	6/16/2025	CARBON-14	74.4	162	U	U	23.8	pCi/L
FBP 43C	6/16/2025	CARBON-14	74.4	159	U	U	-12.5	pCi/L
FBP 43C	10/29/2025	CARBON-14	74.0	157	UJ	UJ	-26.7	pCi/L
FBP 43C	10/29/2025	CARBON-14	73.9	157	UJ	U	-26.7	pCi/L
FBP 43C	10/29/2025	CARBON-14	73.9	157	UJ	UJ	-29.1	pCi/L
FBP 43C	10/29/2025	CESIUM-134	6.08	12.0	U	U	1.5	pCi/L
FBP 43C	10/29/2025	CESIUM-134	6.50	13.7	U	U	0.705	pCi/L
FBP 43C	10/29/2025	CESIUM-134	5.28	10.7	U	U	0.0943	pCi/L
FBP 43C	6/16/2025	CESIUM-134	9.78	20.4	U	U	-1.9	pCi/L
FBP 43C	6/16/2025	CESIUM-134	10.3	21.6	U	U	-2.55	pCi/L
FBP 43C	6/16/2025	CESIUM-137	11.4	21.1	U	U	3.15	pCi/L
FBP 43C	10/29/2025	CESIUM-137	4.95	9.89	U	U	1.67	pCi/L
FBP 43C	10/29/2025	CESIUM-137	5.06	10.8	U	U	-0.0663	pCi/L
FBP 43C	10/29/2025	CESIUM-137	5.03	10.8	U	U	-0.326	pCi/L
FBP 43C	6/16/2025	CESIUM-137	11.6	24.2	U	U	-1.81	pCi/L
FBP 43C	6/16/2025	COBALT-60	15.6	26.4	U	U	7.1	pCi/L
FBP 43C	10/29/2025	COBALT-60	6.26	11.9	U	U	1.97	pCi/L
FBP 43C	10/29/2025	COBALT-60	4.85	9.49	U	U	0.741	pCi/L
FBP 43C	6/16/2025	COBALT-60	10.8	20.4	U	U	-0.606	pCi/L
FBP 43C	10/29/2025	COBALT-60	5.30	11.1	U	U	-1.09	pCi/L
FBP 43C	6/16/2025	CURIUM-242	0.100	0.235	U	U	0	pCi/L
FBP 43C	6/16/2025	CURIUM-242	0.103	0.242	U	U	0	pCi/L
FBP 43C	6/16/2025	CURIUM-243/244	0.0987	0.231	U	U	0	pCi/L
FBP 43C	6/16/2025	CURIUM-243/244	0.177	0.313	U	U	-0.0154	pCi/L
FBP 43C	6/16/2025	CURIUM-245/246	0.115	0.269	U	U	0	pCi/L
FBP 43C	6/16/2025	CURIUM-245/246	0.178	0.332	U	U	-0.00892	pCi/L
FBP 43C	10/29/2025	EUROPIUM-152	13.2	27.2	U	U	2.68	pCi/L
FBP 43C	10/29/2025	EUROPIUM-152	12.7	26.6	U	U	-0.766	pCi/L
FBP 43C	10/29/2025	EUROPIUM-152	15.0	32.0	U	U	-1.26	pCi/L
FBP 43C	6/16/2025	EUROPIUM-152	23.4	49.2	U	U	-2.07	pCi/L
FBP 43C	6/16/2025	EUROPIUM-152	26.7	54.5	U	U	-3.17	pCi/L
FBP 43C	10/29/2025	EUROPIUM-154	13.9	28.0	U	U	1.8	pCi/L
FBP 43C	6/16/2025	EUROPIUM-154	34.3	65.3	U	U	-1.13	pCi/L
FBP 43C	10/29/2025	EUROPIUM-154	13.7	27.9	U	U	-1.51	pCi/L
FBP 43C	10/29/2025	EUROPIUM-154	13.5	28.1	U	U	-1.65	pCi/L

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FBP 43C	6/16/2025	EUROPIUM-154	21.4	48.2	U	U	-10.9	pCi/L
FBP 43C	10/29/2025	EUROPIUM-155	17.1	36.5	U	U	2.44	pCi/L
FBP 43C	10/29/2025	EUROPIUM-155	11.0	25.1	U	U	-3.93	pCi/L
FBP 43C	10/29/2025	EUROPIUM-155	13.3	28.0	U	U	-5.85	pCi/L
FBP 43C	6/16/2025	EUROPIUM-155	25.8	55.8	U	U	-7.51	pCi/L
FBP 43C	6/16/2025	EUROPIUM-155	27.9	60.5	U	U	-10.6	pCi/L
FBP 43C	10/29/2025	GROSS ALPHA	0.793	1.86	U	U	0.574	pCi/L
FBP 43C	6/16/2025	GROSS ALPHA	0.427	1.09	U	U	0.408	pCi/L
FBP 43C	10/29/2025	GROSS ALPHA	0.742	1.65	U	U	0.315	pCi/L
FBP 43C	10/29/2025	GROSS ALPHA	0.719	1.55	U	U	0.212	pCi/L
FBP 43C	2/19/2025	GROSS ALPHA	0.686	1.48	U	U	0.181	pCi/L
FBP 43C	6/16/2025	GROSS ALPHA	0.515	1.08	U	U	0.0169	pCi/L
FBP 43C	9/16/2025	GROSS ALPHA	0.543	1.17	U	U	-0.0305	pCi/L
FBP 43C	10/29/2025	IODINE-129	0.661	1.21	U	U	0.248	pCi/L
FBP 43C	10/29/2025	IODINE-129	0.531	0.969	U	U	0.224	pCi/L
FBP 43C	6/16/2025	IODINE-129	0.478	0.898	U	U	0.15	pCi/L
FBP 43C	10/29/2025	IODINE-129	0.444	0.972	U	U	-0.11	pCi/L
FBP 43C	6/16/2025	IODINE-129	0.292	0.756	U	U	-0.168	pCi/L
FBP 43C	6/16/2025	LEAD-212	23.2	56.8	U	U	12	pCi/L
FBP 43C	10/29/2025	LEAD-212	11.4	31.6	U	U	6.2	pCi/L
FBP 43C	10/29/2025	LEAD-212	11.9	36.1	U	U	2.08	pCi/L
FBP 43C	10/29/2025	LEAD-212	9.84	30.4	U	U	0.857	pCi/L
FBP 43C	6/16/2025	LEAD-212	20.2	41.2	U	U	-2.94	pCi/L
FBP 43C	10/29/2025	LEAD-214	13.4	38.2	U	U	5.83	pCi/L
FBP 43C	10/29/2025	LEAD-214	13.5	37.5	U	U	5.53	pCi/L
FBP 43C	6/16/2025	LEAD-214	24.0	50.0	U	U	-2.87	pCi/L
FBP 43C	6/16/2025	LEAD-214	23.3	47.7	U	U	-5.95	pCi/L
FBP 43C	10/29/2025	LEAD-214	11.4	28.9	U	U	-7.92	pCi/L
FBP 43C	6/16/2025	NEPTUNIUM-237	0.478	0.912	U	U	-0.00605	pCi/L
FBP 43C	6/16/2025	NEPTUNIUM-237	0.463	0.837	U	U	-0.0548	pCi/L
FBP 43C	6/16/2025	NONVOLATILE BETA	0.793	5.45			74.6	pCi/L
FBP 43C	6/16/2025	NONVOLATILE BETA	0.764	5.42			74.6	pCi/L
FBP 43C	2/19/2025	NONVOLATILE BETA	0.666	3.47			72.1	pCi/L
FBP 43C	9/16/2025	NONVOLATILE BETA	0.618	3.38			69.7	pCi/L
FBP 43C	10/29/2025	NONVOLATILE BETA	0.959	5.82		J	52.4	pCi/L
FBP 43C	10/29/2025	NONVOLATILE BETA	0.975	5.72			50.5	pCi/L
FBP 43C	10/29/2025	NONVOLATILE BETA	0.981	4.60		J	28.5	pCi/L
FBP 43C	6/16/2025	PLUTONIUM-238	0.235	0.467	U	U	0.00923	pCi/L
FBP 43C	6/16/2025	PLUTONIUM-238	0.140	0.269	U	U	-0.000198	pCi/L
FBP 43C	6/16/2025	PLUTONIUM-239/240	0.245	0.493	U	U	0.0193	pCi/L
FBP 43C	6/16/2025	PLUTONIUM-239/240	0.198	0.384	U	U	-0.000593	pCi/L
FBP 43C	6/16/2025	POTASSIUM-40	94.8	271	U	U	78.8	pCi/L
FBP 43C	10/29/2025	POTASSIUM-40	63.0	230	U	U	37.1	pCi/L
FBP 43C	10/29/2025	POTASSIUM-40	79.0	165	U	U	2.67	pCi/L
FBP 43C	6/16/2025	POTASSIUM-40	177	341	U	U	0.435	pCi/L
FBP 43C	10/29/2025	PROMETHIUM-146	5.32	12.8	U	U	1.99	pCi/L
FBP 43C	6/16/2025	PROMETHIUM-146	12.0	23.5	U	U	0.434	pCi/L
FBP 43C	10/29/2025	PROMETHIUM-146	6.48	13.7	U	U	0.34	pCi/L
FBP 43C	10/29/2025	PROMETHIUM-146	5.62	12.1	U	U	-1.1	pCi/L
FBP 43C	6/16/2025	PROMETHIUM-146	11.4	23.2	U	U	-1.16	pCi/L
FBP 43C	6/16/2025	RADIUM-226	188	706	U	U	152	pCi/L
FBP 43C	10/29/2025	RADIUM-226	72.5	303	U	J	99.2	pCi/L
FBP 43C	6/16/2025	RADIUM-226	175	545	U	U	72.4	pCi/L
FBP 43C	10/29/2025	RADIUM-226	83.6	358	U	U	56.1	pCi/L
FBP 43C	10/29/2025	RADIUM-226	96.0	404	U	U	13.5	pCi/L
FBP 43C	10/29/2025	RADIUM-228	26.4	69.4	U	U	16	pCi/L
FBP 43C	10/29/2025	RADIUM-228	19.1	68.3	U	U	5.52	pCi/L

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FBP 43C	10/29/2025	RADIUM-228	26.3	68.1	U	U	1.27	pCi/L
FBP 43C	6/16/2025	RADIUM-228	49.0	100	U	U	-5.87	pCi/L
FBP 43C	6/16/2025	RADIUM-228	38.5	76.5	U	U	-8.86	pCi/L
FBP 43C	10/29/2025	SODIUM-22	4.84	9.80	U	U	0.52	pCi/L
FBP 43C	10/29/2025	SODIUM-22	4.74	9.52	U	U	0.217	pCi/L
FBP 43C	6/16/2025	SODIUM-22	12.1	23.1	U	U	-0.399	pCi/L
FBP 43C	10/29/2025	SODIUM-22	4.90	9.98	U	U	-0.475	pCi/L
FBP 43C	6/16/2025	SODIUM-22	7.60	17.1	U	U	-3.86	pCi/L
FBP 43C	10/29/2025	STRONTIUM-90	4.13	8.83	U	U	1.37	pCi/L
FBP 43C	6/16/2025	STRONTIUM-90	4.96	9.98	U	U	-0.327	pCi/L
FBP 43C	10/29/2025	STRONTIUM-90	4.63	9.41	U	U	-0.492	pCi/L
FBP 43C	10/29/2025	STRONTIUM-90	5.90	11.9	U	U	-1.09	pCi/L
FBP 43C	6/16/2025	STRONTIUM-90	5.81	11.6	U	U	-3.67	pCi/L
FBP 43C	10/29/2025	TECHNETIUM-99	13.3	42.9			130	pCi/L
FBP 43C	10/29/2025	TECHNETIUM-99	13.2	42.4			128	pCi/L
FBP 43C	10/29/2025	TECHNETIUM-99	12.7	41.1			126	pCi/L
FBP 43C	6/16/2025	TECHNETIUM-99	18.7	50.9			124	pCi/L
FBP 43C	6/16/2025	TECHNETIUM-99	17.9	47.9			106	pCi/L
FBP 43C	6/16/2025	THALLIUM-208	12.5	23.7	U	U	4.25	pCi/L
FBP 43C	10/29/2025	THALLIUM-208	4.76	19.5	U	U	2.45	pCi/L
FBP 43C	10/29/2025	THALLIUM-208	5.92	14.4	U	U	-2.59	pCi/L
FBP 43C	6/16/2025	THALLIUM-208	12.7	26.0	U	U	-2.9	pCi/L
FBP 43C	6/16/2025	THORIUM-228	0.244	0.538	U	U	0.0756	pCi/L
FBP 43C	6/16/2025	THORIUM-228	0.212	0.393	U	U	-0.0139	pCi/L
FBP 43C	6/16/2025	THORIUM-230	0.332	0.678	U	U	0.0392	pCi/L
FBP 43C	6/16/2025	THORIUM-230	0.377	0.697	U	U	-0.0664	pCi/L
FBP 43C	6/16/2025	THORIUM-232	0.191	0.362	U	U	-0.0046	pCi/L
FBP 43C	6/16/2025	THORIUM-232	0.323	0.613	U	U	-0.0205	pCi/L
FBP 43C	10/29/2025	TRITIUM	0.813	1.87	J	J	0.951	pCi/mL
FBP 43C	6/16/2025	TRITIUM	0.746	1.71	J	J	0.811	pCi/mL
FBP 43C	6/16/2025	TRITIUM	0.578	1.30	J		0.778	pCi/mL
FBP 43C	6/16/2025	TRITIUM	0.738	1.67	U	U	0.699	pCi/mL
FBP 43C	10/29/2025	TRITIUM	0.812	1.82	U	U	0.674	pCi/mL
FBP 43C	10/29/2025	TRITIUM	0.803	1.79	U	U	0.603	pCi/mL
FBP 43C	6/16/2025	URANIUM-233/234	0.282	0.614	U	U	0.0927	pCi/L
FBP 43C	6/16/2025	URANIUM-233/234	0.322	0.664	U	U	0.0566	pCi/L
FBP 43C	6/16/2025	URANIUM-235/236	0.268	0.498	U		-0.00764	pCi/L
FBP 43C	6/16/2025	URANIUM-235/236	0.236	0.404	U		-0.0278	pCi/L
FBP 43C	6/16/2025	URANIUM-238	0.229	0.511	U	U	0.0791	pCi/L
FBP 43C	6/16/2025	URANIUM-238	0.191	0.411	U	U	0.04	pCi/L
FGW005 C	9/16/2025	ACTINIUM-228	42.8	111	U	U	32.2	pCi/L
FGW005 C	10/29/2025	ACTINIUM-228	38.0	78.2	U	U	11.7	pCi/L
FGW005 C	10/29/2025	ACTINIUM-228	40.7	84.3	U	U	9.33	pCi/L
FGW005 C	2/26/2025	ACTINIUM-228	12.6	35.4	U	U	8.06	pCi/L
FGW005 C	2/26/2025	ACTINIUM-228	14.0	40.8	U	U	6.1	pCi/L
FGW005 C	9/16/2025	ACTINIUM-228	45.5	119	U	U	5	pCi/L
FGW005 C	9/16/2025	ACTINIUM-228	43.7	92.3	U	U	2.93	pCi/L
FGW005 C	2/26/2025	ACTINIUM-228	14.4	32.8	U	U	-1.09	pCi/L
FGW005 C	6/17/2025	ACTINIUM-228	68.3	141	U	U	-6.25	pCi/L
FGW005 C	10/29/2025	AMERICIUM-241	0.262	0.568	U	U	0.0672	pCi/L
FGW005 C	2/26/2025	AMERICIUM-241	0.270	0.582	U	U	0.0566	pCi/L
FGW005 C	2/26/2025	AMERICIUM-241	0.324	0.708	U	U	0.0513	pCi/L
FGW005 C	9/16/2025	AMERICIUM-241	0.297	0.625	U	U	0.0482	pCi/L
FGW005 C	9/16/2025	AMERICIUM-241	0.176	0.380	U	U	0.0368	pCi/L
FGW005 C	2/26/2025	AMERICIUM-241	0.232	0.474	U	U	0.0218	pCi/L
FGW005 C	6/17/2025	AMERICIUM-241	0.227	0.463	U	U	0.0213	pCi/L
FGW005 C	9/16/2025	AMERICIUM-241	0.298	0.556	U	U	-0.0149	pCi/L

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FGW005 C	10/29/2025	AMERICIUM-241	0.190	0.335	U	U	-0.0164	pCi/L
FGW005 C	9/16/2025	ANTIMONY-125	43.2	125	U	U	15.5	pCi/L
FGW005 C	10/29/2025	ANTIMONY-125	37.5	80.3	U	U	9.84	pCi/L
FGW005 C	2/26/2025	ANTIMONY-125	14.6	31.4	U	U	1.27	pCi/L
FGW005 C	2/26/2025	ANTIMONY-125	14.9	32.3	U	U	0.757	pCi/L
FGW005 C	9/16/2025	ANTIMONY-125	39.6	89.4	U	U	0.217	pCi/L
FGW005 C	10/29/2025	ANTIMONY-125	32.5	70.7	U	U	-0.812	pCi/L
FGW005 C	9/16/2025	ANTIMONY-125	35.5	76.5	U	U	-7.43	pCi/L
FGW005 C	6/17/2025	ANTIMONY-125	52.2	119	U	U	-20.9	pCi/L
FGW005 C	2/26/2025	BARIUM-133	7.64	17.3	U	U	4.23	pCi/L
FGW005 C	9/16/2025	BARIUM-133	19.7	42.5	U	U	4.08	pCi/L
FGW005 C	9/16/2025	BARIUM-133	19.2	43.0	U	U	3.72	pCi/L
FGW005 C	2/26/2025	BARIUM-133	7.80	17.7	U	U	1.28	pCi/L
FGW005 C	10/29/2025	BARIUM-133	17.1	37.1	U	U	0.373	pCi/L
FGW005 C	2/26/2025	BARIUM-133	7.38	17.0	U	U	-2.14	pCi/L
FGW005 C	9/16/2025	BARIUM-133	20.2	43.0	U	U	-2.41	pCi/L
FGW005 C	6/17/2025	BARIUM-133	32.1	67.3	U	U	-3.35	pCi/L
FGW005 C	10/29/2025	BARIUM-133	18.2	40.0	U	U	-3.59	pCi/L
FGW005 C	2/26/2025	BISMUTH-214	7.89	30.7			69.6	pCi/L
FGW005 C	2/26/2025	BISMUTH-214	8.44	29.0			64.5	pCi/L
FGW005 C	2/26/2025	BISMUTH-214	8.24	27.6			46.2	pCi/L
FGW005 C	10/29/2025	BISMUTH-214	21.8	72.2	J	J	31.2	pCi/L
FGW005 C	9/16/2025	BISMUTH-214	23.5	69.9	U	U	20.7	pCi/L
FGW005 C	10/29/2025	BISMUTH-214	21.9	58.7	U	U	20.5	pCi/L
FGW005 C	9/16/2025	BISMUTH-214	23.5	80.7	U	U	19.4	pCi/L
FGW005 C	9/16/2025	BISMUTH-214	23.9	62.9	U	U	19.2	pCi/L
FGW005 C	6/17/2025	BISMUTH-214	44.2	91.6	U	U	2.32	pCi/L
FGW005 C	9/16/2025	CARBON-14	63.9	138	U	U	14.3	pCi/L
FGW005 C	9/16/2025	CARBON-14	63.0	136	U	U	8.99	pCi/L
FGW005 C	9/16/2025	CARBON-14	64.1	137	U	U	-0.36	pCi/L
FGW005 C	2/26/2025	CARBON-14	71.8	154	U	U	-5.55	pCi/L
FGW005 C	6/17/2025	CARBON-14	74.0	158	U	U	-10.9	pCi/L
FGW005 C	10/29/2025	CARBON-14	41.4	86.2	UJ	UJ	-11.5	pCi/L
FGW005 C	2/26/2025	CARBON-14	71.4	152	UJ	U	-13.7	pCi/L
FGW005 C	2/26/2025	CARBON-14	70.7	151	U	U	-16.9	pCi/L
FGW005 C	10/29/2025	CARBON-14	41.4	85.2	UJ	U	-18.5	pCi/L
FGW005 C	10/29/2025	CESIUM-134	10.1	20.9	U	U	3.66	pCi/L
FGW005 C	9/16/2025	CESIUM-134	11.3	25.3	U	U	0.254	pCi/L
FGW005 C	2/26/2025	CESIUM-134	3.67	7.79	U	U	-0.335	pCi/L
FGW005 C	2/26/2025	CESIUM-134	3.91	8.31	U	U	-0.501	pCi/L
FGW005 C	2/26/2025	CESIUM-134	3.86	8.50	U	U	-0.711	pCi/L
FGW005 C	10/29/2025	CESIUM-134	9.78	20.6	U	U	-2.19	pCi/L
FGW005 C	9/16/2025	CESIUM-134	10.9	23.8	U	U	-2.63	pCi/L
FGW005 C	9/16/2025	CESIUM-134	10.5	23.4	U	U	-4.47	pCi/L
FGW005 C	6/17/2025	CESIUM-134	17.8	38.4	U	U	-5.51	pCi/L
FGW005 C	2/26/2025	CESIUM-137	4.41	9.53	U	U	1.62	pCi/L
FGW005 C	9/16/2025	CESIUM-137	11.4	24.3	U	U	1.29	pCi/L
FGW005 C	9/16/2025	CESIUM-137	12.9	28.9	U	U	0.612	pCi/L
FGW005 C	2/26/2025	CESIUM-137	4.10	8.96	U	U	0.202	pCi/L
FGW005 C	2/26/2025	CESIUM-137	4.13	9.07	U	U	-1.06	pCi/L
FGW005 C	10/29/2025	CESIUM-137	9.94	20.7	U	U	-1.53	pCi/L
FGW005 C	9/16/2025	CESIUM-137	11.6	24.9	U	U	-1.96	pCi/L
FGW005 C	10/29/2025	CESIUM-137	9.47	19.9	U	U	-2.33	pCi/L
FGW005 C	6/17/2025	CESIUM-137	15.8	35.4	U	U	-9.24	pCi/L
FGW005 C	9/16/2025	COBALT-60	11.8	24.4	R	R	14.4	pCi/L
FGW005 C	9/16/2025	COBALT-60	10.9	24.8	U	U	8.52	pCi/L
FGW005 C	2/26/2025	COBALT-60	2.50	8.22	J	J	6.38	pCi/L

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FGW005 C	9/16/2025	COBALT-60	11.6	29.6	U	U	4.29	pCi/L
FGW005 C	6/17/2025	COBALT-60	18.9	35.0	U	U	3.47	pCi/L
FGW005 C	2/26/2025	COBALT-60	2.51	6.93	J		3.1	pCi/L
FGW005 C	10/29/2025	COBALT-60	10.6	21.8	U	U	2.7	pCi/L
FGW005 C	2/26/2025	COBALT-60	3.42	6.96	U	U	2.32	pCi/L
FGW005 C	10/29/2025	COBALT-60	8.23	17.5	U	U	0.496	pCi/L
FGW005 C	2/26/2025	CURIUM-242	0.219	0.629	U	U	0.0729	pCi/L
FGW005 C	9/16/2025	CURIUM-242	0.200	0.428	U	U	0.0261	pCi/L
FGW005 C	9/16/2025	CURIUM-242	0.152	0.308	U	U	3.32E-09	pCi/L
FGW005 C	2/26/2025	CURIUM-242	0.136	0.318	U	U	0	pCi/L
FGW005 C	2/26/2025	CURIUM-242	0.143	0.335	U	U	0	pCi/L
FGW005 C	6/17/2025	CURIUM-242	0.126	0.295	U	U	0	pCi/L
FGW005 C	9/16/2025	CURIUM-242	0.198	0.464	U	U	0	pCi/L
FGW005 C	10/29/2025	CURIUM-242	0.121	0.284	U	U	0	pCi/L
FGW005 C	10/29/2025	CURIUM-242	0.178	0.332	U	U	-0.0089	pCi/L
FGW005 C	6/17/2025	CURIUM-243/244	0.194	0.474	U	U	0.0711	pCi/L
FGW005 C	2/26/2025	CURIUM-243/244	0.198	0.434	U	U	0.0314	pCi/L
FGW005 C	9/16/2025	CURIUM-243/244	0.139	0.298	U	U	0.0182	pCi/L
FGW005 C	2/26/2025	CURIUM-243/244	0.200	0.468	U	U	0	pCi/L
FGW005 C	10/29/2025	CURIUM-243/244	0.162	0.302	U	U	-0.00811	pCi/L
FGW005 C	2/26/2025	CURIUM-243/244	0.209	0.390	U	U	-0.0105	pCi/L
FGW005 C	10/29/2025	CURIUM-243/244	0.243	0.407	U	U	-0.0354	pCi/L
FGW005 C	9/16/2025	CURIUM-243/244	0.404	0.678	U	U	-0.0589	pCi/L
FGW005 C	9/16/2025	CURIUM-243/244	0.343	0.637	U	U	-0.0952	pCi/L
FGW005 C	2/26/2025	CURIUM-245/246	0.355	0.769	U	U	0.0911	pCi/L
FGW005 C	10/29/2025	CURIUM-245/246	0.118	0.338	U	U	0.0392	pCi/L
FGW005 C	2/26/2025	CURIUM-245/246	0.144	0.337	U	U	0	pCi/L
FGW005 C	2/26/2025	CURIUM-245/246	0.232	0.544	U	U	0	pCi/L
FGW005 C	6/17/2025	CURIUM-245/246	0.141	0.330	U	U	0	pCi/L
FGW005 C	10/29/2025	CURIUM-245/246	0.128	0.300	U	U	0	pCi/L
FGW005 C	9/16/2025	CURIUM-245/246	0.341	0.635	U	U	-0.0171	pCi/L
FGW005 C	9/16/2025	CURIUM-245/246	0.161	0.304	U	U	-0.0211	pCi/L
FGW005 C	9/16/2025	CURIUM-245/246	0.264	0.506	U	U	-0.0276	pCi/L
FGW005 C	10/29/2025	EUROPIUM-152	41.2	88.6	U	U	9.35	pCi/L
FGW005 C	2/26/2025	EUROPIUM-152	18.0	38.4	U	U	9.02	pCi/L
FGW005 C	9/16/2025	EUROPIUM-152	46.3	98.3	U	U	6.01	pCi/L
FGW005 C	2/26/2025	EUROPIUM-152	18.2	39.0	U	U	2.06	pCi/L
FGW005 C	9/16/2025	EUROPIUM-152	49.4	104	U	U	0.91	pCi/L
FGW005 C	6/17/2025	EUROPIUM-152	73.0	152	U	U	-2.72	pCi/L
FGW005 C	9/16/2025	EUROPIUM-152	43.5	92.5	U	U	-3.49	pCi/L
FGW005 C	2/26/2025	EUROPIUM-152	18.2	40.2	U	U	-7.66	pCi/L
FGW005 C	10/29/2025	EUROPIUM-152	43.8	97.0	U	U	-17.2	pCi/L
FGW005 C	2/26/2025	EUROPIUM-154	8.16	16.7	U	U	3.76	pCi/L
FGW005 C	9/16/2025	EUROPIUM-154	27.1	54.3	U	U	0.761	pCi/L
FGW005 C	2/26/2025	EUROPIUM-154	7.28	15.5	U	U	-0.458	pCi/L
FGW005 C	2/26/2025	EUROPIUM-154	7.21	16.0	U	U	-0.919	pCi/L
FGW005 C	10/29/2025	EUROPIUM-154	22.1	46.3	U	U	-0.99	pCi/L
FGW005 C	9/16/2025	EUROPIUM-154	22.7	47.5	U	U	-3.89	pCi/L
FGW005 C	9/16/2025	EUROPIUM-154	19.5	41.5	U	U	-5.87	pCi/L
FGW005 C	6/17/2025	EUROPIUM-154	26.3	52.7	U	U	-6.36	pCi/L
FGW005 C	10/29/2025	EUROPIUM-154	22.0	47.6	U	U	-7.2	pCi/L
FGW005 C	10/29/2025	EUROPIUM-155	104	230	U	U	18	pCi/L
FGW005 C	2/26/2025	EUROPIUM-155	51.0	112	U	U	16.9	pCi/L
FGW005 C	9/16/2025	EUROPIUM-155	124	271	U	U	11.7	pCi/L
FGW005 C	2/26/2025	EUROPIUM-155	49.1	108	U	U	8.98	pCi/L
FGW005 C	2/26/2025	EUROPIUM-155	49.5	109	U	U	3.63	pCi/L
FGW005 C	6/17/2025	EUROPIUM-155	199	431	U	U	1.73	pCi/L

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FGW005 C	10/29/2025	EUROPIUM-155	110	235	U	U	-6.48	pCi/L
FGW005 C	9/16/2025	EUROPIUM-155	105	230	U	U	-25.6	pCi/L
FGW005 C	9/16/2025	EUROPIUM-155	109	242	U	U	-62.9	pCi/L
FGW005 C	10/29/2025	GROSS ALPHA	109	503			1870	pCi/L
FGW005 C	10/29/2025	GROSS ALPHA	167	1230			1550	pCi/L
FGW005 C	9/16/2025	GROSS ALPHA	1080	2670	J	J	1390	pCi/L
FGW005 C	6/17/2025	GROSS ALPHA	0.473	25.7		J	1370	pCi/L
FGW005 C	2/26/2025	GROSS ALPHA	2.11	67.7		J	1210	pCi/L
FGW005 C	2/26/2025	GROSS ALPHA	1.71	60.3		J	1080	pCi/L
FGW005 C	9/16/2025	GROSS ALPHA	956	2340	U	U	935	pCi/L
FGW005 C	2/26/2025	GROSS ALPHA	1.83	59.4		J	867	pCi/L
FGW005 C	6/17/2025	GROSS ALPHA	0.457	19.7		J	819	pCi/L
FGW005 C	9/16/2025	GROSS ALPHA	950	2380	U	U	749	pCi/L
FGW005 C	2/26/2025	IODINE-129	0.771	2.97		J	4.47	pCi/L
FGW005 C	10/29/2025	IODINE-129	1.18	4.32			4.44	pCi/L
FGW005 C	9/16/2025	IODINE-129	1.16	3.80			4.31	pCi/L
FGW005 C	6/17/2025	IODINE-129	1.06	4.24	J		3.49	pCi/L
FGW005 C	9/16/2025	IODINE-129	1.09	4.21	J	J	3.1	pCi/L
FGW005 C	2/26/2025	IODINE-129	1.46	4.74	J	J	2.98	pCi/L
FGW005 C	2/26/2025	IODINE-129	1.41	4.37	J	J	2.75	pCi/L
FGW005 C	9/16/2025	IODINE-129	1.80	5.90	J	J	2.24	pCi/L
FGW005 C	10/29/2025	IODINE-129	3.85	8.43	U	U	1.59	pCi/L
FGW005 C	9/16/2025	LEAD-212	33.9	91.7	U	U	32.3	pCi/L
FGW005 C	10/29/2025	LEAD-212	33.9	78.5	U	U	21.1	pCi/L
FGW005 C	10/29/2025	LEAD-212	31.8	86.0	U	U	19.1	pCi/L
FGW005 C	2/26/2025	LEAD-212	13.9	37.5	U	U	10.8	pCi/L
FGW005 C	2/26/2025	LEAD-212	13.9	31.6	U	U	5.58	pCi/L
FGW005 C	2/26/2025	LEAD-212	13.8	33.7	U	U	4.86	pCi/L
FGW005 C	9/16/2025	LEAD-212	37.5	84.1	U	U	4.54	pCi/L
FGW005 C	6/17/2025	LEAD-212	59.8	131	U	U	1.93	pCi/L
FGW005 C	9/16/2025	LEAD-212	32.6	76.0	U	U	0.00597	pCi/L
FGW005 C	2/26/2025	LEAD-214	17.2	48.4			77.6	pCi/L
FGW005 C	2/26/2025	LEAD-214	13.7	42.1			65.5	pCi/L
FGW005 C	2/26/2025	LEAD-214	16.5	40.7			59	pCi/L
FGW005 C	10/29/2025	LEAD-214	34.4	98.2	U	U	31.3	pCi/L
FGW005 C	9/16/2025	LEAD-214	37.0	100	U	U	29	pCi/L
FGW005 C	9/16/2025	LEAD-214	32.8	86.4	U	U	21.5	pCi/L
FGW005 C	10/29/2025	LEAD-214	36.7	78.9	U	U	8.98	pCi/L
FGW005 C	9/16/2025	LEAD-214	38.8	82.8	U	U	2.83	pCi/L
FGW005 C	6/17/2025	LEAD-214	59.2	124	U	U	-8.7	pCi/L
FGW005 C	6/17/2025	NEPTUNIUM-237	0.650	1.91	J	J	0.928	pCi/L
FGW005 C	2/26/2025	NEPTUNIUM-237	0.750	2.02	U	U	0.625	pCi/L
FGW005 C	9/16/2025	NEPTUNIUM-237	0.533	1.36	U	U	0.467	pCi/L
FGW005 C	9/16/2025	NEPTUNIUM-237	0.775	1.85	U	U	0.407	pCi/L
FGW005 C	2/26/2025	NEPTUNIUM-237	0.696	1.69	U	U	0.355	pCi/L
FGW005 C	2/26/2025	NEPTUNIUM-237	1.23	2.52	U	U	0.171	pCi/L
FGW005 C	9/16/2025	NEPTUNIUM-237	0.477	1.05	U	U	0.161	pCi/L
FGW005 C	9/16/2025	NONVOLATILE BETA	1550	20200			1160000	pCi/L
FGW005 C	9/16/2025	NONVOLATILE BETA	1440	19600			1110000	pCi/L
FGW005 C	10/29/2025	NONVOLATILE BETA	179	5920			1100000	pCi/L
FGW005 C	9/16/2025	NONVOLATILE BETA	1530	19300			1070000	pCi/L
FGW005 C	10/29/2025	NONVOLATILE BETA	170	5590			1040000	pCi/L
FGW005 C	6/17/2025	NONVOLATILE BETA	0.687	297			869000	pCi/L
FGW005 C	6/17/2025	NONVOLATILE BETA	0.649	293			838000	pCi/L
FGW005 C	2/26/2025	NONVOLATILE BETA	1.72	814		J	799000	pCi/L
FGW005 C	2/26/2025	NONVOLATILE BETA	1.78	822			798000	pCi/L
FGW005 C	2/26/2025	NONVOLATILE BETA	1.71	812		J	791000	pCi/L

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FGW005 C	2/26/2025	PLUTONIUM-238	0.261	0.605	U	U	0.0975	pCi/L
FGW005 C	2/26/2025	PLUTONIUM-238	0.302	0.674	U	U	0.0935	pCi/L
FGW005 C	10/29/2025	PLUTONIUM-238	0.199	0.449	U	U	0.0546	pCi/L
FGW005 C	9/16/2025	PLUTONIUM-238	0.344	0.680	U	U	0.026	pCi/L
FGW005 C	2/26/2025	PLUTONIUM-238	0.195	0.382	U	U	0.00895	pCi/L
FGW005 C	9/16/2025	PLUTONIUM-238	0.339	0.647	U	U	0.00336	pCi/L
FGW005 C	10/29/2025	PLUTONIUM-238	0.250	0.466	U	U	-0.0125	pCi/L
FGW005 C	6/17/2025	PLUTONIUM-238	0.215	0.390	U	U	-0.0396	pCi/L
FGW005 C	9/16/2025	PLUTONIUM-238	0.337	0.543	U	U	-0.0731	pCi/L
FGW005 C	9/16/2025	PLUTONIUM-239/240	0.232	0.568	U	U	0.106	pCi/L
FGW005 C	2/26/2025	PLUTONIUM-239/240	0.211	0.499	U	U	0.0972	pCi/L
FGW005 C	10/29/2025	PLUTONIUM-239/240	0.237	0.529	U	U	0.0733	pCi/L
FGW005 C	9/16/2025	PLUTONIUM-239/240	0.322	0.680	U	U	0.0678	pCi/L
FGW005 C	6/17/2025	PLUTONIUM-239/240	0.183	0.345	U	U	-0.0102	pCi/L
FGW005 C	9/16/2025	PLUTONIUM-239/240	0.416	0.766	U	U	-0.0297	pCi/L
FGW005 C	2/26/2025	PLUTONIUM-239/240	0.280	0.479	U	U	-0.033	pCi/L
FGW005 C	10/29/2025	PLUTONIUM-239/240	0.319	0.545	U	U	-0.0376	pCi/L
FGW005 C	2/26/2025	PLUTONIUM-239/240	0.282	0.472	U	U	-0.041	pCi/L
FGW005 C	9/16/2025	PLUTONIUM-242	0.257	0.629	U	U	0.117	pCi/L
FGW005 C	9/16/2025	PLUTONIUM-242	0.442	0.924	U	U	0.0938	pCi/L
FGW005 C	9/16/2025	PLUTONIUM-242	0.338	0.540	U	U	-0.0804	pCi/L
FGW005 C	10/29/2025	POTASSIUM-40	101	319	U	U	40.9	pCi/L
FGW005 C	9/16/2025	POTASSIUM-40	82.7	267	U	U	31.7	pCi/L
FGW005 C	10/29/2025	POTASSIUM-40	96.8	191	U	U	24.9	pCi/L
FGW005 C	2/26/2025	POTASSIUM-40	20.2	80.2	U	U	13.5	pCi/L
FGW005 C	9/16/2025	POTASSIUM-40	76.2	290	U	U	2.86	pCi/L
FGW005 C	2/26/2025	POTASSIUM-40	28.2	85.4	U	U	0.344	pCi/L
FGW005 C	2/26/2025	POTASSIUM-40	30.3	76.3	U	U	-9.18	pCi/L
FGW005 C	6/17/2025	POTASSIUM-40	200	376	U	U	-21.1	pCi/L
FGW005 C	9/16/2025	POTASSIUM-40	127	264	U	U	-66.9	pCi/L
FGW005 C	2/26/2025	PROMETHIUM-146	6.47	13.9	U	U	3.22	pCi/L
FGW005 C	9/16/2025	PROMETHIUM-146	16.9	35.7	U	U	2.62	pCi/L
FGW005 C	9/16/2025	PROMETHIUM-146	16.4	34.8	U	U	2.3	pCi/L
FGW005 C	2/26/2025	PROMETHIUM-146	6.41	13.9	U	U	-1.46	pCi/L
FGW005 C	2/26/2025	PROMETHIUM-146	6.35	14.8	U	U	-1.92	pCi/L
FGW005 C	9/16/2025	PROMETHIUM-146	16.9	36.0	U	U	-2.06	pCi/L
FGW005 C	10/29/2025	PROMETHIUM-146	16.5	36.4	U	U	-3.15	pCi/L
FGW005 C	10/29/2025	PROMETHIUM-146	13.9	30.7	U	U	-3.74	pCi/L
FGW005 C	6/17/2025	PROMETHIUM-146	25.5	54.7	U	U	-9.9	pCi/L
FGW005 C	10/29/2025	RADIUM-226	425	1510	J	J	764	pCi/L
FGW005 C	9/16/2025	RADIUM-226	450	1290	R	R	453	pCi/L
FGW005 C	9/16/2025	RADIUM-226	433	1290	U	U	341	pCi/L
FGW005 C	10/29/2025	RADIUM-226	405	1170	U	U	302	pCi/L
FGW005 C	9/16/2025	RADIUM-226	482	1420	U	U	286	pCi/L
FGW005 C	9/16/2025	RADIUM-228	42.8	111	U	U	32.2	pCi/L
FGW005 C	10/29/2025	RADIUM-228	38.0	78.2	U	U	11.7	pCi/L
FGW005 C	10/29/2025	RADIUM-228	40.7	84.3	U	U	9.33	pCi/L
FGW005 C	2/26/2025	RADIUM-228	12.6	35.4	U	U	8.06	pCi/L
FGW005 C	2/26/2025	RADIUM-228	14.0	40.8	U	U	6.1	pCi/L
FGW005 C	9/16/2025	RADIUM-228	45.5	119	U	U	5	pCi/L
FGW005 C	9/16/2025	RADIUM-228	43.7	92.3	U	U	2.93	pCi/L
FGW005 C	2/26/2025	RADIUM-228	14.4	32.8	U	U	-1.09	pCi/L
FGW005 C	6/17/2025	RADIUM-228	68.3	141	U	U	-6.25	pCi/L
FGW005 C	2/26/2025	SODIUM-22	2.86	5.86	U	U	1.28	pCi/L
FGW005 C	9/16/2025	SODIUM-22	9.48	19.0	U	U	0.173	pCi/L
FGW005 C	2/26/2025	SODIUM-22	2.60	5.52	U	U	-0.0216	pCi/L
FGW005 C	2/26/2025	SODIUM-22	2.54	5.62	U	U	-0.308	pCi/L

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FGW005 C	10/29/2025	SODIUM-22	7.59	16.0	U	U	-0.69	pCi/L
FGW005 C	9/16/2025	SODIUM-22	8.02	16.7	U	U	-1.37	pCi/L
FGW005 C	10/29/2025	SODIUM-22	7.89	16.5	U	U	-1.37	pCi/L
FGW005 C	9/16/2025	SODIUM-22	6.89	14.7	U	U	-2.07	pCi/L
FGW005 C	6/17/2025	SODIUM-22	9.31	18.7	U	U	-2.25	pCi/L
FGW005 C	10/29/2025	STRONTIUM-90	102	10800			492000	pCi/L
FGW005 C	10/29/2025	STRONTIUM-90	65.3	8550			445000	pCi/L
FGW005 C	9/16/2025	STRONTIUM-90	85.8	9070		J	429000	pCi/L
FGW005 C	9/16/2025	STRONTIUM-90	64.2	8560			411000	pCi/L
FGW005 C	6/17/2025	STRONTIUM-90	42.9	6060			386000	pCi/L
FGW005 C	9/16/2025	STRONTIUM-90	57.8	7900		J	386000	pCi/L
FGW005 C	2/26/2025	STRONTIUM-90	59.8	6680		J	338000	pCi/L
FGW005 C	6/17/2025	STRONTIUM-90	50.8	6230			329000	pCi/L
FGW005 C	2/26/2025	STRONTIUM-90	42.3	5560		J	300000	pCi/L
FGW005 C	2/26/2025	STRONTIUM-90	42.9	5400		J	258000	pCi/L
FGW005 C	2/26/2025	TECHNETIUM-99	23.7	77.7		J	846	pCi/L
FGW005 C	9/16/2025	TECHNETIUM-99	21.0	75.2			753	pCi/L
FGW005 C	10/29/2025	TECHNETIUM-99	21.2	70.2			750	pCi/L
FGW005 C	9/16/2025	TECHNETIUM-99	21.1	74.9			738	pCi/L
FGW005 C	9/16/2025	TECHNETIUM-99	20.9	73.7			714	pCi/L
FGW005 C	10/29/2025	TECHNETIUM-99	20.4	67.0			700	pCi/L
FGW005 C	2/26/2025	TECHNETIUM-99	23.9	74.1		J	682	pCi/L
FGW005 C	6/17/2025	TECHNETIUM-99	19.6	80.6			650	pCi/L
FGW005 C	2/26/2025	TECHNETIUM-99	23.7	72.5		J	633	pCi/L
FGW005 C	6/17/2025	TECHNETIUM-99	20.3	81.9			631	pCi/L
FGW005 C	9/16/2025	THALLIUM-208	12.4	40.4	U	U	7.96	pCi/L
FGW005 C	10/29/2025	THALLIUM-208	12.9	27.1	U	U	0.781	pCi/L
FGW005 C	2/26/2025	THALLIUM-208	4.90	11.0	U	U	0.712	pCi/L
FGW005 C	2/26/2025	THALLIUM-208	4.83	10.9	U	U	-0.0755	pCi/L
FGW005 C	9/16/2025	THALLIUM-208	13.1	28.5	U	U	-0.823	pCi/L
FGW005 C	2/26/2025	THALLIUM-208	4.76	10.8	U	U	-1.13	pCi/L
FGW005 C	10/29/2025	THALLIUM-208	11.8	26.5	U	U	-5.67	pCi/L
FGW005 C	9/16/2025	THALLIUM-208	12.7	28.5	U	U	-6.33	pCi/L
FGW005 C	6/17/2025	THALLIUM-208	20.6	44.8	U	U	-8.96	pCi/L
FGW005 C	9/16/2025	THORIUM-228	0.195	0.545	J	J	0.226	pCi/L
FGW005 C	2/26/2025	THORIUM-228	0.250	0.680	U	U	0.215	pCi/L
FGW005 C	2/26/2025	THORIUM-228	0.300	0.714	U	U	0.167	pCi/L
FGW005 C	6/17/2025	THORIUM-228	0.185	0.413	U	U	0.0821	pCi/L
FGW005 C	9/16/2025	THORIUM-228	0.201	0.435	U	U	0.0514	pCi/L
FGW005 C	9/16/2025	THORIUM-228	0.234	0.484	U	U	0.0396	pCi/L
FGW005 C	2/26/2025	THORIUM-228	0.352	0.656	U	U	-0.0165	pCi/L
FGW005 C	2/26/2025	THORIUM-230	0.329	0.877	J		0.346	pCi/L
FGW005 C	2/26/2025	THORIUM-230	0.357	0.903	U	U	0.326	pCi/L
FGW005 C	9/16/2025	THORIUM-230	0.272	0.720	U	U	0.317	pCi/L
FGW005 C	6/17/2025	THORIUM-230	0.256	0.620	U	J	0.265	pCi/L
FGW005 C	9/16/2025	THORIUM-230	0.242	0.598	U	U	0.196	pCi/L
FGW005 C	2/26/2025	THORIUM-230	0.328	0.748	U	U	0.145	pCi/L
FGW005 C	9/16/2025	THORIUM-230	0.335	0.661	U	U	0.0134	pCi/L
FGW005 C	2/26/2025	THORIUM-232	0.250	0.570	U	U	0.0862	pCi/L
FGW005 C	2/26/2025	THORIUM-232	0.193	0.455	U	U	0.0623	pCi/L
FGW005 C	6/17/2025	THORIUM-232	0.104	0.255	U	U	0.0532	pCi/L
FGW005 C	9/16/2025	THORIUM-232	0.192	0.392	U	U	0.0249	pCi/L
FGW005 C	2/26/2025	THORIUM-232	0.230	0.460	U	U	0.0164	pCi/L
FGW005 C	9/16/2025	THORIUM-232	0.177	0.330	U	U	-0.00329	pCi/L
FGW005 C	9/16/2025	THORIUM-232	0.213	0.391	U	U	-0.0102	pCi/L
FGW005 C	2/26/2025	TRITIUM	0.771	10.1			397	pCi/mL
FGW005 C	2/26/2025	TRITIUM	0.769	10.1			397	pCi/mL

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FGW005 C	2/26/2025	TRITIUM	0.772	9.57			354	pCi/mL
FGW005 C	10/29/2025	TRITIUM	0.727	6.25			110	pCi/mL
FGW005 C	10/29/2025	TRITIUM	0.724	6.18			108	pCi/mL
FGW005 C	9/16/2025	TRITIUM	0.564	5.38			83.9	pCi/mL
FGW005 C	9/16/2025	TRITIUM	0.532	5.11			79.8	pCi/mL
FGW005 C	9/16/2025	TRITIUM	0.519	5.02			79	pCi/mL
FGW005 C	6/17/2025	TRITIUM	0.631	4.49			58.5	pCi/mL
FGW005 C	6/17/2025	TRITIUM	0.617	4.42			58.1	pCi/mL
FGW005 C	9/16/2025	URANIUM-233/234	9.99	79.8			409	pCi/L
FGW005 C	2/26/2025	URANIUM-233/234	50.1	190			403	pCi/L
FGW005 C	2/26/2025	URANIUM-233/234	34.5	151			384	pCi/L
FGW005 C	9/16/2025	URANIUM-233/234	6.77	82.6			372	pCi/L
FGW005 C	10/29/2025	URANIUM-233/234	21.2	150			369	pCi/L
FGW005 C	6/17/2025	URANIUM-233/234	8.55	73.6			341	pCi/L
FGW005 C	6/17/2025	URANIUM-233/234	12.7	83.1			320	pCi/L
FGW005 C	10/29/2025	URANIUM-233/234	21.1	134			312	pCi/L
FGW005 C	9/16/2025	URANIUM-233/234	10.1	73.9			305	pCi/L
FGW005 C	2/26/2025	URANIUM-233/234	42.4	155			286	pCi/L
FGW005 C	2/26/2025	URANIUM-235/236	41.0	102	U		40	pCi/L
FGW005 C	9/16/2025	URANIUM-235/236	2.81	26.6			37.4	pCi/L
FGW005 C	10/29/2025	URANIUM-235/236	9.51	52.7	J		34.9	pCi/L
FGW005 C	9/16/2025	URANIUM-235/236	3.71	29.7			33.4	pCi/L
FGW005 C	6/17/2025	URANIUM-235/236	16.1	45.5	J		32.5	pCi/L
FGW005 C	9/16/2025	URANIUM-235/236	3.13	26.5			32.3	pCi/L
FGW005 C	2/26/2025	URANIUM-235/236	24.7	67.7	U		31	pCi/L
FGW005 C	2/26/2025	URANIUM-235/236	33.8	84.6	U		30.6	pCi/L
FGW005 C	6/17/2025	URANIUM-235/236	7.49	29.5	J		28.4	pCi/L
FGW005 C	10/29/2025	URANIUM-235/236	16.9	58.7	J		27.3	pCi/L
FGW005 C	2/26/2025	URANIUM-238	29.8	264			1300	pCi/L
FGW005 C	9/16/2025	URANIUM-238	11.1	152			1290	pCi/L
FGW005 C	9/16/2025	URANIUM-238	9.31	130			1250	pCi/L
FGW005 C	2/26/2025	URANIUM-238	35.4	232			1160	pCi/L
FGW005 C	9/16/2025	URANIUM-238	2.53	122			1110	pCi/L
FGW005 C	10/29/2025	URANIUM-238	17.4	237			1110	pCi/L
FGW005 C	6/17/2025	URANIUM-238	6.06	120			1060	pCi/L
FGW005 C	6/17/2025	URANIUM-238	14.0	137			1000	pCi/L
FGW005 C	10/29/2025	URANIUM-238	15.7	214			996	pCi/L
FGW005 C	2/26/2025	URANIUM-238	23.7	218			975	pCi/L
FGW022C	9/16/2025	ACTINIUM-228	35.5	75.9	U	U	9.84	pCi/L
FGW022C	10/29/2025	ACTINIUM-228	30.2	83.2	U	U	9.72	pCi/L
FGW022C	6/17/2025	ACTINIUM-228	53.8	108	U	U	-2.93	pCi/L
FGW022C	2/26/2025	ACTINIUM-228	15.6	33.1	U	U	-7.4	pCi/L
FGW022C	2/26/2025	ACTINIUM-228	15.1	36.7	U	U	-7.84	pCi/L
FGW022C	6/17/2025	AMERICIUM-241	0.208	0.470	U	U	0.0572	pCi/L
FGW022C	2/26/2025	AMERICIUM-241	0.0708	0.185	U	U	0.0555	pCi/L
FGW022C	9/16/2025	AMERICIUM-241	0.179	0.391	U	U	0.0284	pCi/L
FGW022C	2/26/2025	AMERICIUM-241	0.118	0.255	U	U	0.0247	pCi/L
FGW022C	10/29/2025	AMERICIUM-241	0.213	0.435	U	U	0.02	pCi/L
FGW022C	9/16/2025	AMERICIUM-241	0.290	0.464	U	U	-0.0691	pCi/L
FGW022C	10/29/2025	ANTIMONY-125	14.4	29.3	U	U	5.4	pCi/L
FGW022C	9/16/2025	ANTIMONY-125	15.0	32.2	U	U	-2.59	pCi/L
FGW022C	2/26/2025	ANTIMONY-125	8.09	17.4	U	U	-3.19	pCi/L
FGW022C	2/26/2025	ANTIMONY-125	10.1	22.0	U	U	-5.3	pCi/L
FGW022C	6/17/2025	ANTIMONY-125	26.6	58.8	U	U	-11.6	pCi/L
FGW022C	9/16/2025	BARIUM-133	7.23	15.7	U	U	2.1	pCi/L
FGW022C	2/26/2025	BARIUM-133	3.95	8.41	U	U	0.903	pCi/L
FGW022C	2/26/2025	BARIUM-133	4.90	9.94	U	U	0.828	pCi/L

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FGW022C	10/29/2025	BARIUM-133	5.69	12.5	U	U	-0.402	pCi/L
FGW022C	6/17/2025	BARIUM-133	14.4	29.3	U	U	-0.796	pCi/L
FGW022C	2/26/2025	BISMUTH-214	6.80	26.3	J	J	15.7	pCi/L
FGW022C	2/26/2025	BISMUTH-214	6.89	27.9	U	U	9.22	pCi/L
FGW022C	9/16/2025	BISMUTH-214	18.0	41.2	U	U	6.95	pCi/L
FGW022C	10/29/2025	BISMUTH-214	10.1	38.1	U	U	6.51	pCi/L
FGW022C	6/17/2025	BISMUTH-214	31.9	63.5	U	U	-0.0322	pCi/L
FGW022C	9/16/2025	CARBON-14	63.6	139	U	U	29.7	pCi/L
FGW022C	9/16/2025	CARBON-14	63.9	137	U	U	8.35	pCi/L
FGW022C	2/26/2025	CARBON-14	73.1	157	U	U	-3.13	pCi/L
FGW022C	2/26/2025	CARBON-14	72.8	156	U	U	-8.72	pCi/L
FGW022C	6/17/2025	CARBON-14	74.5	159	U	U	-10.4	pCi/L
FGW022C	10/29/2025	CARBON-14	41.4	85.8	UJ	UJ	-15.1	pCi/L
FGW022C	10/29/2025	CESIUM-134	5.69	11.0	U	U	1.65	pCi/L
FGW022C	9/16/2025	CESIUM-134	6.84	13.9	U	U	1.37	pCi/L
FGW022C	2/26/2025	CESIUM-134	4.93	9.87	U	U	1.29	pCi/L
FGW022C	2/26/2025	CESIUM-134	3.87	8.31	U	U	-0.665	pCi/L
FGW022C	6/17/2025	CESIUM-134	12.1	27.1	U	U	-5.96	pCi/L
FGW022C	10/29/2025	CESIUM-137	5.68	19.5	J	J	13.1	pCi/L
FGW022C	9/16/2025	CESIUM-137	6.85	14.5	U	U	1.4	pCi/L
FGW022C	2/26/2025	CESIUM-137	3.44	7.16	U	U	0.599	pCi/L
FGW022C	2/26/2025	CESIUM-137	3.53	7.17	U	U	0.163	pCi/L
FGW022C	6/17/2025	CESIUM-137	12.3	24.8	U	U	-1.61	pCi/L
FGW022C	6/17/2025	COBALT-60	14.2	24.7	U	U	1.47	pCi/L
FGW022C	2/26/2025	COBALT-60	4.37	8.41	U	U	1.39	pCi/L
FGW022C	2/26/2025	COBALT-60	3.86	7.58	U	U	0.0218	pCi/L
FGW022C	10/29/2025	COBALT-60	6.28	12.9	U	U	-0.366	pCi/L
FGW022C	9/16/2025	COBALT-60	6.55	13.3	U	U	-0.485	pCi/L
FGW022C	2/26/2025	CURIUM-242	0.0401	0.131	U	U	0.0134	pCi/L
FGW022C	2/26/2025	CURIUM-242	0.0300	0.085	U	U	0	pCi/L
FGW022C	6/17/2025	CURIUM-242	0.116	0.272	U	U	0	pCi/L
FGW022C	9/16/2025	CURIUM-242	0.115	0.269	U	U	0	pCi/L
FGW022C	9/16/2025	CURIUM-242	0.119	0.279	U	U	0	pCi/L
FGW022C	10/29/2025	CURIUM-242	0.200	0.372	U	U	-0.00999	pCi/L
FGW022C	9/16/2025	CURIUM-243/244	0.217	0.467	U	U	0.0454	pCi/L
FGW022C	2/26/2025	CURIUM-243/244	0.0875	0.189	U	U	0.0183	pCi/L
FGW022C	6/17/2025	CURIUM-243/244	0.227	0.445	U	U	0.0104	pCi/L
FGW022C	9/16/2025	CURIUM-243/244	0.258	0.480	U	U	-0.00737	pCi/L
FGW022C	2/26/2025	CURIUM-243/244	0.117	0.224	U	U	-0.0122	pCi/L
FGW022C	10/29/2025	CURIUM-243/244	0.232	0.397	U	U	-0.0273	pCi/L
FGW022C	6/17/2025	CURIUM-245/246	0.129	0.371	U	U	0.043	pCi/L
FGW022C	10/29/2025	CURIUM-245/246	0.211	0.461	U	U	0.0334	pCi/L
FGW022C	9/16/2025	CURIUM-245/246	0.205	0.449	U	U	0.0325	pCi/L
FGW022C	2/26/2025	CURIUM-245/246	0.0318	0.125	U	U	0.0318	pCi/L
FGW022C	9/16/2025	CURIUM-245/246	0.197	0.431	U	U	0.0313	pCi/L
FGW022C	2/26/2025	CURIUM-245/246	0.0424	0.153	U	U	0.0283	pCi/L
FGW022C	6/17/2025	EUROPIUM-152	33.2	64.8	U	U	4.44	pCi/L
FGW022C	2/26/2025	EUROPIUM-152	11.1	22.7	U	U	1.13	pCi/L
FGW022C	10/29/2025	EUROPIUM-152	14.6	30.7	U	U	-0.0209	pCi/L
FGW022C	9/16/2025	EUROPIUM-152	18.1	38.5	U	U	-0.809	pCi/L
FGW022C	2/26/2025	EUROPIUM-152	7.55	16.3	U	U	-4.18	pCi/L
FGW022C	9/16/2025	EUROPIUM-154	17.2	31.4	U	U	4.99	pCi/L
FGW022C	10/29/2025	EUROPIUM-154	19.2	38.4	U	U	2.51	pCi/L
FGW022C	2/26/2025	EUROPIUM-154	12.4	23.7	U	U	2.27	pCi/L
FGW022C	2/26/2025	EUROPIUM-154	9.25	19.6	U	U	-2.47	pCi/L
FGW022C	6/17/2025	EUROPIUM-154	32.3	70.1	U	U	-12.2	pCi/L
FGW022C	10/29/2025	EUROPIUM-155	17.1	37.9	U	U	4.48	pCi/L

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FGW022C	6/17/2025	EUROPIUM-155	39.0	80.2	U	U	-0.962	pCi/L
FGW022C	9/16/2025	EUROPIUM-155	22.2	47.0	U	U	-1.32	pCi/L
FGW022C	2/26/2025	EUROPIUM-155	14.5	31.3	U	U	-1.75	pCi/L
FGW022C	2/26/2025	EUROPIUM-155	8.78	19.7	U	U	-2.32	pCi/L
FGW022C	10/29/2025	GROSS ALPHA	119	331			561	pCi/L
FGW022C	2/26/2025	GROSS ALPHA	0.607	22.2			538	pCi/L
FGW022C	2/26/2025	GROSS ALPHA	0.853	21.9			521	pCi/L
FGW022C	6/17/2025	GROSS ALPHA	0.416	9.80		J	439	pCi/L
FGW022C	9/16/2025	GROSS ALPHA	0.438	8.46			320	pCi/L
FGW022C	10/29/2025	IODINE-129	0.884	2.94	J	J	1.71	pCi/L
FGW022C	9/16/2025	IODINE-129	0.513	1.72	J	J	1.7	pCi/L
FGW022C	6/17/2025	IODINE-129	0.883	2.45	J	J	1.31	pCi/L
FGW022C	2/26/2025	IODINE-129	0.893	2.64	J	J	1.3	pCi/L
FGW022C	9/16/2025	LEAD-212	14.0	39.8	U	U	7.76	pCi/L
FGW022C	2/26/2025	LEAD-212	8.79	22.2	U	U	6.08	pCi/L
FGW022C	6/17/2025	LEAD-212	22.8	53.8	U	U	5.12	pCi/L
FGW022C	2/26/2025	LEAD-212	5.19	15.9	U	U	4.27	pCi/L
FGW022C	10/29/2025	LEAD-212	10.7	30.7	U	U	1.07	pCi/L
FGW022C	9/16/2025	LEAD-214	17.3	45.3	R	R	19.3	pCi/L
FGW022C	2/26/2025	LEAD-214	7.88	22.3	J		13.4	pCi/L
FGW022C	10/29/2025	LEAD-214	16.0	51.2	U	U	10.2	pCi/L
FGW022C	2/26/2025	LEAD-214	10.2	26.6	U	U	9.93	pCi/L
FGW022C	6/17/2025	LEAD-214	27.5	54.1	U	U	4.23	pCi/L
FGW022C	6/17/2025	NEPTUNIUM-237	0.707	1.85	U	U	0.45	pCi/L
FGW022C	9/16/2025	NEPTUNIUM-237	0.458	1.21	U	U	0.433	pCi/L
FGW022C	2/26/2025	NEPTUNIUM-237	0.574	1.38	U	U	0.371	pCi/L
FGW022C	2/26/2025	NEPTUNIUM-237	0.401	0.919	U	U	0.16	pCi/L
FGW022C	9/16/2025	NEPTUNIUM-237	0.605	1.19	U	U	0.0418	pCi/L
FGW022C	10/29/2025	NONVOLATILE BETA	173	597			4700	pCi/L
FGW022C	6/17/2025	NONVOLATILE BETA	0.683	18.4			3150	pCi/L
FGW022C	9/16/2025	NONVOLATILE BETA	0.608	16.7			2630	pCi/L
FGW022C	2/26/2025	NONVOLATILE BETA	0.932	31.3			2310	pCi/L
FGW022C	2/26/2025	NONVOLATILE BETA	0.957	31.4			2250	pCi/L
FGW022C	9/16/2025	PLUTONIUM-238	0.267	0.611	U	U	0.106	pCi/L
FGW022C	9/16/2025	PLUTONIUM-238	0.201	0.439	U	U	0.0602	pCi/L
FGW022C	6/17/2025	PLUTONIUM-238	0.135	0.298	U	U	0.038	pCi/L
FGW022C	2/26/2025	PLUTONIUM-238	0.182	0.372	U	U	0.0171	pCi/L
FGW022C	2/26/2025	PLUTONIUM-238	0.184	0.360	U	U	0.00842	pCi/L
FGW022C	10/29/2025	PLUTONIUM-238	0.209	0.388	U	U	-0.00595	pCi/L
FGW022C	2/26/2025	PLUTONIUM-239/240	0.144	0.458	J		0.173	pCi/L
FGW022C	9/16/2025	PLUTONIUM-239/240	0.319	0.671	U	U	0.0699	pCi/L
FGW022C	2/26/2025	PLUTONIUM-239/240	0.157	0.344	U	U	0.0249	pCi/L
FGW022C	10/29/2025	PLUTONIUM-239/240	0.182	0.356	U	U	0.00832	pCi/L
FGW022C	9/16/2025	PLUTONIUM-239/240	0.158	0.310	U	U	0.00726	pCi/L
FGW022C	6/17/2025	PLUTONIUM-239/240	0.191	0.337	U	U	-0.0388	pCi/L
FGW022C	9/16/2025	PLUTONIUM-242	0.294	0.570	U	U	0.0122	pCi/L
FGW022C	9/16/2025	PLUTONIUM-242	0.143	0.253	U	U	-0.0124	pCi/L
FGW022C	10/29/2025	POTASSIUM-40	57.4	275	U	J	83.9	pCi/L
FGW022C	6/17/2025	POTASSIUM-40	286	536	U	U	38.2	pCi/L
FGW022C	9/16/2025	POTASSIUM-40	81.0	205	U	U	23.9	pCi/L
FGW022C	2/26/2025	POTASSIUM-40	54.9	113	U	U	-10.2	pCi/L
FGW022C	2/26/2025	POTASSIUM-40	48.4	114	U	U	-16.9	pCi/L
FGW022C	6/17/2025	PROMETHIUM-146	16.3	30.9	U	U	4.66	pCi/L
FGW022C	9/16/2025	PROMETHIUM-146	8.13	16.6	U	U	2.97	pCi/L
FGW022C	2/26/2025	PROMETHIUM-146	4.32	8.90	U	U	0.434	pCi/L
FGW022C	10/29/2025	PROMETHIUM-146	5.58	11.8	U	U	-0.33	pCi/L
FGW022C	2/26/2025	PROMETHIUM-146	4.50	9.50	U	U	-0.956	pCi/L

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FGW022C	2/26/2025	RADIUM-226	82.0	284	J		138	pCi/L
FGW022C	2/26/2025	RADIUM-226	55.7	201	J	J	91.8	pCi/L
FGW022C	9/16/2025	RADIUM-226	117	419	U	U	91.7	pCi/L
FGW022C	10/29/2025	RADIUM-226	88.0	402	U	U	29.4	pCi/L
FGW022C	6/17/2025	RADIUM-226	263	841	U	U	0.214	pCi/L
FGW022C	9/16/2025	RADIUM-228	35.5	75.9	U	U	9.84	pCi/L
FGW022C	10/29/2025	RADIUM-228	30.2	83.2	U	U	9.72	pCi/L
FGW022C	6/17/2025	RADIUM-228	53.8	108	U	U	-2.93	pCi/L
FGW022C	2/26/2025	RADIUM-228	15.6	33.1	U	U	-7.4	pCi/L
FGW022C	2/26/2025	RADIUM-228	15.1	36.7	U	U	-7.84	pCi/L
FGW022C	9/16/2025	SODIUM-22	6.07	11.1	U	U	1.77	pCi/L
FGW022C	10/29/2025	SODIUM-22	6.94	13.8	U	U	1.14	pCi/L
FGW022C	2/26/2025	SODIUM-22	4.49	8.55	U	U	0.958	pCi/L
FGW022C	2/26/2025	SODIUM-22	3.25	6.89	U	U	-0.916	pCi/L
FGW022C	6/17/2025	SODIUM-22	10.8	25.2	U	U	-6.15	pCi/L
FGW022C	10/29/2025	STRONTIUM-90	4.10	69.5			1730	pCi/L
FGW022C	9/16/2025	STRONTIUM-90	4.62	65.6			1410	pCi/L
FGW022C	9/16/2025	STRONTIUM-90	3.53	60.7			1340	pCi/L
FGW022C	2/26/2025	STRONTIUM-90	5.98	66.4		J	1300	pCi/L
FGW022C	6/17/2025	STRONTIUM-90	32.4	354			1130	pCi/L
FGW022C	2/26/2025	STRONTIUM-90	3.05	52.3		J	1040	pCi/L
FGW022C	10/29/2025	TECHNETIUM-99	19.9	51.7			211	pCi/L
FGW022C	6/17/2025	TECHNETIUM-99	19.7	57.3			185	pCi/L
FGW022C	9/16/2025	TECHNETIUM-99	8.56	35.6			183	pCi/L
FGW022C	2/26/2025	TECHNETIUM-99	19.6	56.8			182	pCi/L
FGW022C	2/26/2025	TECHNETIUM-99	19.8	56.6			173	pCi/L
FGW022C	9/16/2025	THALLIUM-208	6.48	24.8	R	R	6.51	pCi/L
FGW022C	10/29/2025	THALLIUM-208	4.75	18.1	U	U	2.84	pCi/L
FGW022C	6/17/2025	THALLIUM-208	14.5	28.9	U	U	-0.992	pCi/L
FGW022C	2/26/2025	THALLIUM-208	3.96	9.22	U	U	-1.44	pCi/L
FGW022C	2/26/2025	THALLIUM-208	4.60	10.1	U	U	-1.9	pCi/L
FGW022C	9/16/2025	THORIUM-228	0.302	0.650	U	U	0.063	pCi/L
FGW022C	6/17/2025	THORIUM-228	0.204	0.412	U	U	0.0195	pCi/L
FGW022C	9/16/2025	THORIUM-228	0.323	0.627	U	U	0.0131	pCi/L
FGW022C	2/26/2025	THORIUM-228	0.261	0.495	U	U	0.00132	pCi/L
FGW022C	2/26/2025	THORIUM-228	0.302	0.550	U	U	-0.0182	pCi/L
FGW022C	2/26/2025	THORIUM-230	0.316	0.862	J	J	0.355	pCi/L
FGW022C	2/26/2025	THORIUM-230	0.343	0.781	U	U	0.159	pCi/L
FGW022C	6/17/2025	THORIUM-230	0.192	0.448	U	U	0.107	pCi/L
FGW022C	9/16/2025	THORIUM-230	0.359	0.693	U	U	0.00883	pCi/L
FGW022C	9/16/2025	THORIUM-230	0.384	0.726	U	U	-0.00273	pCi/L
FGW022C	9/16/2025	THORIUM-232	0.166	0.396	U	U	0.0365	pCi/L
FGW022C	6/17/2025	THORIUM-232	0.125	0.250	U	U	0.00565	pCi/L
FGW022C	9/16/2025	THORIUM-232	0.193	0.388	U	U	-0.00433	pCi/L
FGW022C	2/26/2025	THORIUM-232	0.203	0.368	U	U	-0.0139	pCi/L
FGW022C	2/26/2025	THORIUM-232	0.223	0.387	U	U	-0.0229	pCi/L
FGW022C	9/16/2025	TRITIUM	0.447	1.63			5.78	pCi/mL
FGW022C	2/26/2025	TRITIUM	0.464	1.65			5.38	pCi/mL
FGW022C	10/29/2025	TRITIUM	0.711	2.07			4.63	pCi/mL
FGW022C	6/17/2025	TRITIUM	0.609	1.78			3.87	pCi/mL
FGW022C	2/26/2025	URANIUM-233/234	3.91	27.5			149	pCi/L
FGW022C	2/26/2025	URANIUM-233/234	3.72	26.3			144	pCi/L
FGW022C	6/17/2025	URANIUM-233/234	12.5	54.9			137	pCi/L
FGW022C	9/16/2025	URANIUM-233/234	7.19	37.6			96.9	pCi/L
FGW022C	10/29/2025	URANIUM-233/234	10.2	51.8			95.2	pCi/L
FGW022C	9/16/2025	URANIUM-233/234	9.36	41.4			93.2	pCi/L
FGW022C	2/26/2025	URANIUM-235/236	2.13	11.1			17.5	pCi/L

Well ID	Date	Analyte	Detection Limit	Quantitation Limit	Lab Qualifier	Review Qualifier	Result	Units
FGW022C	2/26/2025	URANIUM-235/236	2.81	10.9			12.6	pCi/L
FGW022C	10/29/2025	URANIUM-235/236	7.66	25.0	J		11.8	pCi/L
FGW022C	9/16/2025	URANIUM-235/236	2.17	13.1	J	J	9.38	pCi/L
FGW022C	9/16/2025	URANIUM-235/236	2.42	13.8	J	J	8.86	pCi/L
FGW022C	6/17/2025	URANIUM-235/236	9.23	22.3	U		5.78	pCi/L
FGW022C	2/26/2025	URANIUM-238	3.41	44.2			455	pCi/L
FGW022C	2/26/2025	URANIUM-238	2.49	41.7			443	pCi/L
FGW022C	10/29/2025	URANIUM-238	6.20	89.4			401	pCi/L
FGW022C	6/17/2025	URANIUM-238	11.2	78.8			370	pCi/L
FGW022C	9/16/2025	URANIUM-238	8.02	67.4		J	345	pCi/L
FGW022C	9/16/2025	URANIUM-238	5.59	57.4			295	pCi/L

APPENDIX B

2025 Monitoring Well Results
Data Matrix Table and Field Conditions Key Codes

Field Code	Explanation
A	Pump is surging excessively; aerated
B	Blank sample was collected
C	Well is continuously pumping
D	Well is dry-no sample or field data collected
E	Equipment blank was collected
I	Well went dry during sampling; field data collected but insufficient water to collect all samples
L	Well went dry before sampling began; only depth to water can be determined
N	Well was not stabilized before sampling began
P	Inaccessibility or mechanical failure prevented sample collection and field analysis of the water
S	No water in standpipe; for water level events only
T	Samples were collected, but some samples were not sent to the laboratory due to high turbidity
W	Unable to sample well because of stabilization or sampling equipment failure; water-level measurements were obtained
X	Well went dry during purging; samples collected after well recovered measurements obtained
0	OK
1	Pump Dry
2	Sampled after recovery
3	Gallons purged through sample port
4	DI water obtained from 772-7B
5	High turbidity
6	Flow meter leaking
7	Pump failure
8	Flow meter not operating
9	# gallons added
10	Well is inaccessible, well cannot be Sampled
11	Well abandoned
12	No water to surface
13	Field measurements only
14	Not all samples were collected
15	Equipment failure
16	No water in standpipe
17	Bailed well
18	Water level tape not long enough
19	Well not sampled, maintenance required
20	Well sampled, maintenance required
21	Measurement Exceeded Criteria

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Matrix Table GSAWOU 2025

| Station | Well Use | Aquifer Zone | SAMPLE COLLECTED DATE | DEPTH TO WATER | pH | SAMPLING LEVEL WATER ELEVATION | SPECIFIC CONDUCTANCE | TOTAL ALKALINITY (AS CACO3) | WATER TEMPERATURE | TURBIDITY | Condition | GWPS | FIELD CONDITIONS | NITRATE+NITRITE AS NITROGEN | TRITIUM-3/H3 | COMBINED RADIUM (226 AND 228) | GROSS ALPHA | IODINE-129 | NON-VOLATILE BETA | RADIUM-226 | STRONTIUM-89/90 | TECHNETIUM-99 | TRITIUM | URANIUM-233/234 | URANIUM-238 | 1,1,1-TRICHLOROETHANE | 1,1,2,2-TETRACHLOROETHANE | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 1,1,2-TRICHLOROETHANE | 1,1-DICHLOROETHANE | 1,1-DICHLOROETHYLENE | 1,2-DICHLOROBENZENE | 1,2-DICHLOROETHANE | 1,2-DIBROMO-3-CHLOROPROPANE | 1,2-DIBROMOETHANE | 1,2-DICHLOROBENZENE | 1,2-DICHLOROETHANE (EDC) | 1,2-DICHLOROPROPANE | 1,3-DICHLOROBENZENE | 1,4-DICHLOROBENZENE | 1,4-DIOXANE | 2-HEXANONE | ACETONE | BENZENE | BROMOCHLOROMETHANE | BROMODICHLOROMETHANE | BROMOFORM (TRIBROMOMETHANE) | BROMOMETHANE (METHYL BROMIDE) | CARBON DISULFIDE | CARBON TETRACHLORIDE | CHLOROBENZENE | CHLOROETHANE (ETHYL CHLORIDE) | CHLOROMETHANE (METHYL CHLORIDE) | CHLOROFORM | CHLOROMETHANE (METHYLENE CHLORIDE) | CIS-1,2-DICHLOROETHYLENE | CIS-1,3-DICHLOROPROPENE | CUMENE (ISOPROPYLBENZENE) | CYCLOHEXANE | DIBROMOCHLOROMETHANE | DICHLORODIFLUOROMETHANE | DICHLOROMETHANE (METHYLENE CHLORIDE) | ETHYLBENZENE | M,P-XYLENE | METHYL ACETATE | METHYL ETHYL KETONE | METHYL ISOBUTYL KETONE | METHYL TERTIARY BUTYL ETHER (MTBE) | METHYLCYCLOHEXANE | O-XYLENE | STYRENE | TETRACHLOROETHYLENE (PCE) | TOLUENE | TRANS-1,2-DICHLOROETHYLENE | TRANS-1,3-DICHLOROPROPENE | TRICHLOROETHYLENE (TCE) | TRICHLOROFLUOROMETHANE |
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