NEXTera ENERGY SEABROOK

2021 Annual Radiological Environmental Operating Report

April 2022

SEABROOK STATION

ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

For the Period

January - December 2021

Docket No. 50-443

Prepared By:

NextEra Energy Seabrook, LLC
Chemistry Department
Seabrook Station

And

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Executive Summary

Both the plant operations and Dry Fuel Storage Radiological Environmental Monitoring Programs (REMP) for Seabrook Station operated successfully for the period of January through December 2021. This report describes the REMP and its implementation as required by Technical Specifications and as defined in the Offsite Dose Calculation Manual (ODCM). It also contains analytical results, data evaluation, dose assessment (as needed), and data trends for each environmental sample medium. Also included are the results of the Land Use Census, historical data, and the environmental laboratory performance in the Quality Assurance Inter-comparison Program required by the ODCM.

Radioactivity levels in the vicinity of Seabrook Station from January 1 through December 31, 2021 in air, water, sediment, milk, fish, food crops, and vegetation, as well as direct radiation measurements have been analyzed, evaluated, and summarized. The results of the REMP are intended to supplement the results of the radiological effluent monitoring by verifying that any measurable concentration of radioactive materials and levels of radiation are not higher than expected on the basis of the effluent measurement and modeling of the environmental exposure pathways.

Radiation and radioactivity in the environment is monitored within a 10-mile radius of the site. Two types of samples are taken. The first type, control samples, is collected from areas that are beyond measurable influence of Seabrook Station. These samples are used as reference data. Normal background radiation levels, or radiation present due to causes other than Seabrook Station, can thus be compared to the environment surrounding the nuclear power station. Indicator samples are the second sample type obtained. These samples show how much measureable radiation or radioactivity (if any) is contributed to the environment by the site. Indicator samples are taken from areas close to the station where any plant contribution will be at the highest potential concentration. The ODCM minimum required plant operations REMP included the collection for 2021 of at least 576 samples, with a total of 2416 individual measurement analyses. In 2021, the total number of sample analysis sets (both required and non-required) equaled 822 taken from 98 locations around Seabrook Station. These were collected from aquatic, atmospheric, and terrestrial environments. An estimated 4952 individual measurement analyses were performed on these samples. The plant operations radiological environmental monitoring program is outlined in Table 2.0-1. Radiation environmental monitoring associated with Dry Fuel Storage (DFS) in 2021 included an additional 18 TLD direct radiation measurements beyond those listed as being part of the REMP. The DFS environmental monitoring program is shown on Table 4.0-1.

Prior to station operation, samples were collected and analyzed to determine the amount of radioactivity present in the area. The resulting values are used as a "pre-operational baseline." Current analysis results from the indicator samples are compared to both current control sample values and the pre-operational baseline to determine if changes in radioactivity levels are attributable to station operations.

A report is required to be submitted to the Nuclear Regulatory Commission when the level of radioactivity as a result of plant operations in an environmental sampling medium at a specified location exceeds the reporting level limits specified in the ODCM when averaged over any calendar quarter. Also, when more than one of the radionuclides is detected in the sampling medium, this report shall be submitted if:

$$\frac{\text{Concentration (1)}}{\text{Limit Level (1)}} + \frac{\text{Concentration (2)}}{\text{Limit Level (2)}} + \ldots \geq 1.0$$

Based on the analytical results of environmental samples during 2021, Seabrook Station reporting levels were not exceeded.

All off-site radioactivity detected was attributable to either naturally-occurring radionuclides, previous nuclear weapons tests, the Fukushima Daiichi nuclear accident in Japan on March 11, 2011, or other man-made sources.

In 2021, the maximum whole body dose to the hypothetically exposed individual due to Seabrook Station effluents and operations was estimated to be 0.109 mrem. This whole body dose is the sum of all the exposure pathways for liquid and gaseous effluents, plus the direct whole body dose from station sources. This total represents approximately 0.437% of the whole body dose limits for a member of the public as set forth in 40CFR190.

The average effective dose per individual in the U.S. population from ubiquitous or background radiation sources is about 3.11 mSv/yr (311 mrem/yr), with another 3.00 mSv/yr (300 mrem/yr) resulting from medical procedures and imaging (NCRP Report No. 160, "Ionizing Radiation Exposure of the Population of the United States" (2009)). The estimate for natural background includes radon gas which has always been present but has not always been included in previous estimates. In some regions of the country, the amount of natural radiation is significantly higher. Residents of Colorado, for example, receive an additional 60 mrem/yr due to the increase in cosmic and terrestrial radiation levels. In fact, for every 100 feet above sea level, a person will receive an additional 1 mrem/yr from cosmic radiation. In several regions of the world, naturally high concentrations of uranium and radium deposits result in doses of several thousand mrem/yr to their residents (CRC Handbook. "Radioecology: Nuclear Energy and the Environment", F. Ward Whicker and Vincent Schultz, Volume I, 1982).

Analytical results are divided into four categories based on exposure pathways: Airborne, direct radiation, ingestion, and waterborne. Each of these pathways is described below:

- The airborne exposure pathway includes airborne iodine and airborne particulate. The 2021 results were similar to previous years, excluding the Fukushima Daiichi event in 2011. There was no notable increase in natural products and no detectable fission products or other plant-related radionuclides in the airborne particulate media during the year.

- The direct exposure pathway measures environmental radiation exposures by use of thermoluminescent dosimeters (TLDs). TLD results have indicated a trend that compares with previous years which reflect the natural variability of background radiation from one location to another. The exposure rate response at some individual monitoring stations has exhibited step changes at some point in the past that appear to be related to changes in local conditions in the area of the dosimeter measurement. These step observations have been noted at various locations (both control and indicator stations) with no correlation with distance from Seabrook Station, leading to the conclusion that the changes in local TLD responses are not related to Seabrook operations. As a result, no detectable radiation contribution from Seabrook Station sources was identified via TLD environmental measurements off-site during the course of 2021 from either plant operations or from the spent fuel in the Dry Fuel Storage Facility.

- The ingestion exposure pathway includes milk, fish, shellfish, terrestrial food products and leafy vegetation samples. The gamma spectroscopy analyses indicated the most prominent positive results were for potassium-40 (K-40) at average environmental levels. Other naturally-occurring radionuclides were also periodically detected. However, past world-wide nuclear events such as atmospheric testing of nuclear weapons and the Fukushima Daiichi nuclear accident did result in detectable fallout of fission related radioactivity (Cs-137) in milk. Neither fish, shellfish, nor terrestrial food products (strawberries, blueberries and tomatoes) had any detectable fission product related radioactivity. No radionuclides related to plant effluents were detected in any of these sample media during 2021. For the one fission product (Cs-137) detected in milk, the concentration falls within the range of past and pre-operational measurements and can be attributed to past weapons testing fallout.

- The waterborne exposure pathway includes surface (ocean) water, drinking water supply, shallow well water, sea algae (Irish Moss) and sediment. Water samples were analyzed for tritium, gross-beta and gamma-emitting radionuclides. Irish Moss was analyzed for gamma-emitting radionuclides. Tritium was not identified in the water samples analyzed. For groundwater, the gross beta activity detected at all locations is similar to what was detected in the pre-operational program and is consistent with results from previous years of commercial operations. Gamma analysis of samples indicated no plant-related gamma-emitting radionuclides above detection limits.

The results of the 2021 REMP continue to clearly demonstrate that there is no significant short term or chronic long-term radiological impact on the environment in the vicinity of Seabrook Station from plant operations and that there is no detectable impact to members of the public associated with the DFS facility. The REMP monitoring did detect local area fallout related to past global nuclear events, such as atmospheric weapons testing and the Japanese nuclear accident in March 2011, thereby demonstrating the sensitivity and capability of the REMP to detect low level radiological changes in the environment and the likely source. The

REMP confirmed that plant effluents in 2021 did not contribute measurable radiation exposure to the general public. This finding is consistent with previous years' monitoring conclusions. As a result, no increasing or changing trends in plant related radiological impacts on the environment are found.

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1.0 Introduction

NextEra Energy Seabrook, LLC's Radiological Environmental Monitoring Program (REMP) consists of two interconnected sample collection and measurement schedules that look for environmental influences from: (1) plant operations which release to the environment radioactive materials in liquid and gaseous effluents, and direct radiation from plant facilities inside the power block Protected Area, and (2) direct radiation from used fuel placed in the Dry Fuel Storage (DFS) facility located in the West Southwest sector approximately 0.38 miles from the Containment Building. Several monitoring locations provide data that are shared or used in the assessment of both plant and DFS operations.

The plant operations REMP at Seabrook Station has been designed and carried out to achieve the following specific objectives:

- To provide an indication of the appearance or accumulation of any radioactive material in the environment caused by the operation of the nuclear power station.
- To provide assurance to regulatory agencies and the public that the station's environmental impact is known and within anticipated limits.
- To verify the adequacy and proper functioning of station effluent controls and monitoring systems.
- To provide standby monitoring capability for rapid assessment of risk to the general public in the event of unanticipated or accidental releases of radioactive material.

In July 2008, the plant operations REMP was supplemented with the DFS environmental monitoring for direct radiation when used nuclear fuel assemblies were for the first time transferred to the on-site DFS facility located WSW of the power block.

NextEra Energy Seabrook, LLC staff collected the terrestrial samples. Normandeau Associates, Inc. collected the marine and sediment samples. After initial sample preparation for shipment, the samples were sent to GEL Laboratories, Inc. of Charleston, SC for analysis. The Environmental Dosimetry Company located in Sterling, MA processed the environmental TLDs for the entire year.

This report is a summary of the findings of the REMP for 2021. It is being provided in compliance with Part A of Seabrook Station's ODCM and Technical Specification 6.8.1.3.

2.0 Plant Operations Environmental Monitoring Program

Table 2.0-1 outlines the plant operations monitoring program as specified in the Seabrook Station ODCM, Part B, Section 4. Table 2.0-2 lists the operational sampling stations and their specific locations (distances are measured from the center of the Unit 1 Containment Building). The sampling locations are shown on maps in Figures 2.1 through 2.6. The sampling and analysis program as described above fulfills the minimum requirements for environmental sample collection and analysis as contained in ODCM Table A.9.1-1, and includes additional sampling of various pathways and locations beyond the minimum requirements.

Below are listed the two-letter media codes and what they represent:

AP	Air Particulate
CF	Charcoal Filter
TM	Milk
WG	Ground Water
WS	Surface (Sea) Water
SE	Sediment
FH	Fish
HA	Lobsters
MU	Mussels (Shellfish – edible portion only)
MS	Mussels (Shellfish – shell portion only)
TL	Direct Radiation (TLD)
AL	Irish Moss (algae)
TF	Food Crop
TG	Vegetation (broad-leaf)

Table 2.0-1

Plant Operations Radiological Environmental Monitoring Program

Media	Sampling Frequency	Required Analyses
Air Particulate (AP)	-Bi-Weekly -Quarterly Composite	Gross Beta Gamma spectroscopy
Charcoal Filter (CF)	-Bi-Weekly	I-131
Milk (TM)*	-Monthly (Semimonthly when animals are on pasture)	Gamma spectroscopy I-131
Surface (Sea) Water (WS)	-Monthly -Quarterly Composite	Gamma spectroscopy H-3 (composite)
Sediment (SE)	-Semiannually	Gamma spectroscopy
Fish & Invertebrates (FH, HA, MU)	-Quarterly or -Semiannually	Gamma spectroscopy
Direct Radiation (TL)	-Quarterly	Integrated gamma exposure
Irish Moss (AL)	-Semiannually	Gamma spectroscopy
Ground Water (WG)	-Quarterly	Gamma spectroscopy Gross Beta H-3
Food Crops (TF)	-Monthly/Growing Season	Gamma spectroscopy
Vegetation (TG)	-Monthly/Growing Season	Gamma spectroscopy I-131

* Note that broad leaf vegetation is substituted for milk due to insufficient number of required milk sampling locations in the site area.

Table 2.0-2

Plant Operations Radiological Environmental Monitoring Locations[a] [b]
2021

Station Code (Media - Sta. No.)	Station Description	Zone	Approx. Distance From Plant (km)	Direction From Plant
AP/CF-01+	PSNH Barge Landing Area	1	2.6	ESE
AP/CF-02+	Hampton Marina (Harbor Rd)	1	2.5	E
AP/CF-03+	Southwest Boundary (Rock Pile)	1	1.0	SW
AP/CF-04+	West Boundary (Plate Yard)	1	1.2	W
AP/CF-05	Winnacunnet High School	1	4.0	NNE
AP/CF-07+	PSNH Substation	1	5.7	NNW
AP/CF-08	E&H Substation	1	3.4	SSE
AP/CF-09+	Georgetown Electric Light Co.	2	21.4	SSW
TM-15	Hampton Falls, NH	1	6.9	NW
WG-01	Seabrook Town Wells	1	5.6	W
WG-13	Seabrook Station Well No.13	1	1.0	N
WG-14	Brimmer's Lane	1	1.3	NNW
WS-01+	Hampton-Discharge Area	1	5.1	E
WS-51+	Ipswich Bay	2	26.2	SSE
WS-10 *	Seabrook Marsh	1	0.18	SSE
SE-02	Hampton-Discharge Area	1	5.2	E
SE-07	Hampton Beach	1	3.3	E
SE-08+	Seabrook Beach	1	3.3	ESE
SE-52	Ipswich Bay	2	26.2	SSE
SE-57	Plum Island Beach	2	22.4	SSE
FH-03+	Hampton-Discharge Area	1	5.0	ESE
FH-53+	Ipswich Bay	2	23.3	SSE
FH-06	Hampton-Discharge Area	1	5.2	E
HA-04+	Hampton-Discharge Area	1	5.1	E
HA-54+	Ipswich Bay	2	27.9	SSE
MU-06+	Hampton-Discharge Area	1	5.2	E
MU-09	Hampton Harbor	1	2.5	E
MU-56+	Ipswich Bay	2	28.6	SSE
MU-59	Plum Island	2	22.0	SSE
MS-06	Hampton-Discharge Area	1	5.2	E
MS-56	Ipswich Bay	2	28.6	SSE
AL-05	Hampton-Discharge Area	1	5.2	E
AL-55	Ipswich Bay	2	28.7	SSE
TF-02	Hampton Falls, NH	1	5.0	WNW
TF-03	Salisbury, MA	1	5.1	SW
TF-06	Ipswich, MA	2	26.0	S

Table 2.0-2 (Cont'd)

Plant Operations Radiological Environmental Monitoring Locations[a] [b]
2021

Station Code (Media - Sta. No.)	Station Description	Zone	Approx. Distance From Plant (km)	Direction From Plant
TG-08+	North Access Rd, Site Boundary	1	1.05	W
TG-09+	General Office Bld. Site Boundary	1	0.97	SW
TG-10+	Georgetown Electric Light Co.	2	21.4	SSW
TL-01+	Brimmer's Lane, Hampton Falls	I	0.97	N
TL-02+	Landing Road, Hampton	I	3.0	NNE
TL-03+	Glade Path, Hampton Beach	I	2.9	NE
TL-04+	Island Path, Hampton Beach	I	2.3	ENE
TL-05+	Harbor Road, Hampton Beach	I	2.5	E
TL-06+	PSNH Barge Landing Area	I	2.7	ESE
TL-07+	Cross Road, Seabrook Beach	I	2.6	SE
TL-08+	Farm Lane, Seabrook	I	1.3	SSE
TL-09+	Farm Lane, Seabrook	I	1.3	S
TL-10+	Site Boundary Fence	I	1.1	SSW
TL-11+	Site Boundary Fence	I	1.0	SW
TL-12+	Site Boundary Fence	I	1.2	WSW
TL-13+	Inside Site Boundary	I	1.2	W
TL-14+	Trailer Park, Seabrook	I	1.3	WNW
TL-15+	Brimmer's Lane, Hampton Falls	I	1.4	NW
TL-16+	Brimmer's Lane Hampton Falls	I	1.2	NNW
TL-17+	South Road, North Hampton	0	7.8	N
TL-18+	Mill Road, North Hampton	0	7.6	NNE
TL-19+	Appledore Avenue, North Hampton	0	7.7	NE
TL-20+	Ashworth Avenue, Hampton Beach	0	3.2	ENE
TL-21+	Route 1A, Seabrook Beach	0	3.7	SE
TL-22+	Cable Avenue, Salisbury Beach	0	7.6	SSE
TL-23+	Ferry Road, Salisbury	0	8.1	S
TL-24+	Ferry Lots Lane, Salisbury	0	7.2	SSW
TL-25+	Elm Street, Amesbury	0	7.6	SW
TL-26+	Route 107A, Amesbury	0	8.1	WSW
TL-27+	Highland St. S. Hampton	0	7.5	W
TL-28+	Rte. 150, Kensington	0	7.5	WNW
TL-29+	Frying Pan Ln., Hampton Falls	0	7.2	NW
TL-30+	Route 27, Hampton	0	7.6	NNW

Table 2.0-2 (Cont'd)

Plant Operations Radiological Environmental Monitoring Locations[a] [b]
2021

Station Code (Media - Sta. No.)	Station Description	Zone	Approx. Distance From Plant (km)	Direction From Plant
TL-31+	Alumni Drive, Hampton	S	3.8	NNE
TL-32+	Seabrook Elementary School	S	2.0	S
TL-33+	Dock Area, Newburyport	S	9.8	S
TL-34+	Bow Street, Exeter	S	12.0	NW
TL-35+	Lincoln Ackerman School	S	2.3	NNW
TL-36+	Route 97, Georgetown	2	22.6	SSW
TL-37+	Post Office Plaistow, NH	2	21.5	WSW
TL-38+	Emerson St. Hampstead, NH	2	27.7	W
TL-39+	Fremont, NH	2	27.0	WNW
TL-40+	Newmarket, NH	2	21.6	NNW
TL-41	Portsmouth, NH	2	21.0	NNE
TL-42	Ipswich, MA	2	22.8	SSE
TL-44	Education (Science & Nature) Center	S	0.6	SW
TL-45	Hampton Fire Station	S	4.4	NE
TL-46	Seabrook Beach (near Police Station)	S	2.8	ESE
TL-47	Hampton Falls, NH	S	4.1	WNW

Zone indices are: 1 = Indicator Stations; 2 = Control Stations; 0 = Outer Ring TLD;
I = Inner Ring TLD; S = Special Interest TLD

\+ = Sample Locations required by the Off-Site Dose Calculation Manual (ODCM)
* Note that WS-10 is the same location as WS-02 reported in previous reports.

(a) Dry Fuel Storage (DFS) locations are listed on Table 4.0-1.

(b) Table reflects those locations included in the 2021 sample collection program.

Figure 2.1 Radiological Environmental Monitoring Locations Within 4 Km of Seabrook Station

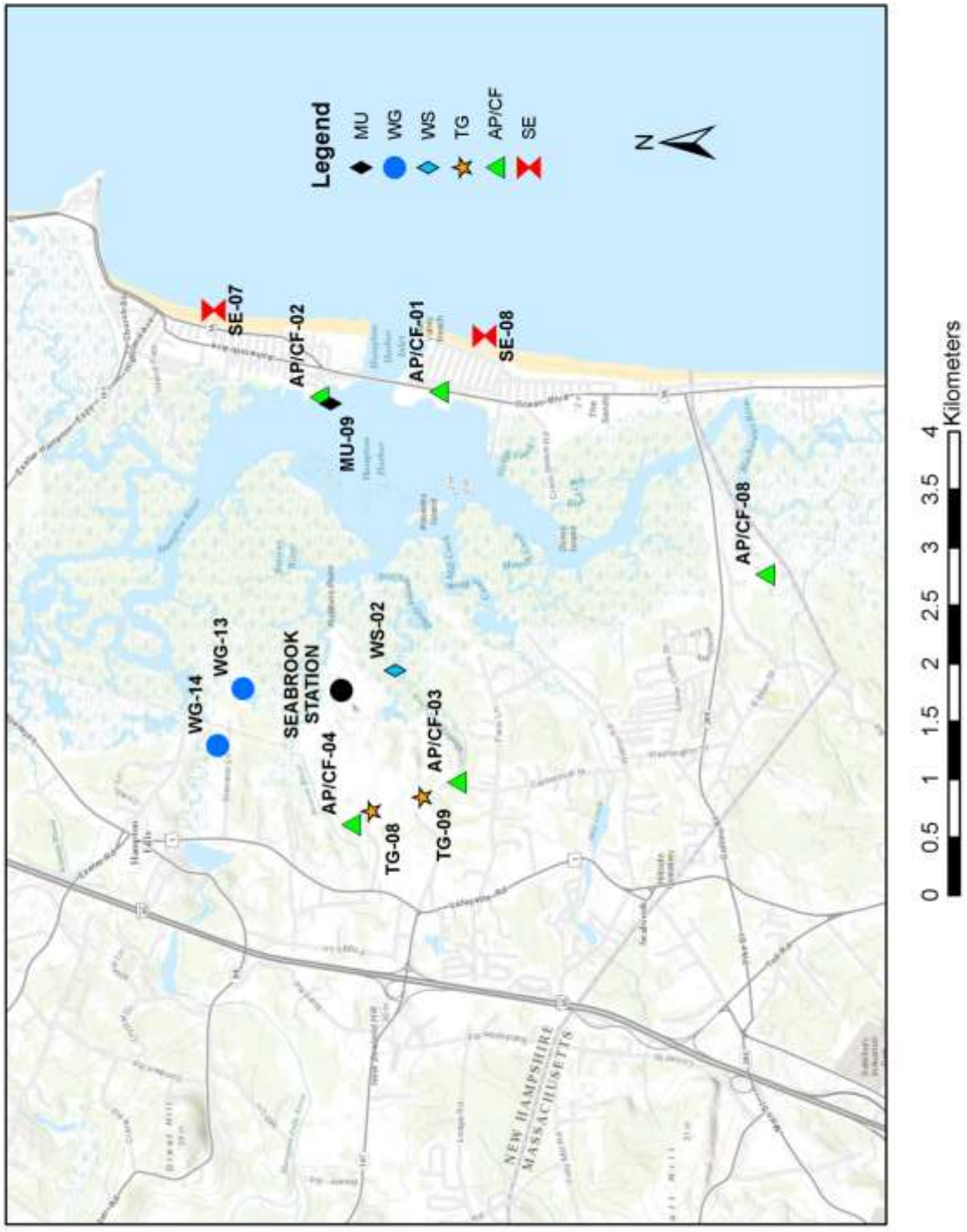


Figure 2.2 Radiological Environmental Monitoring Locations Between 4 & 12 Km of Seabrook Station

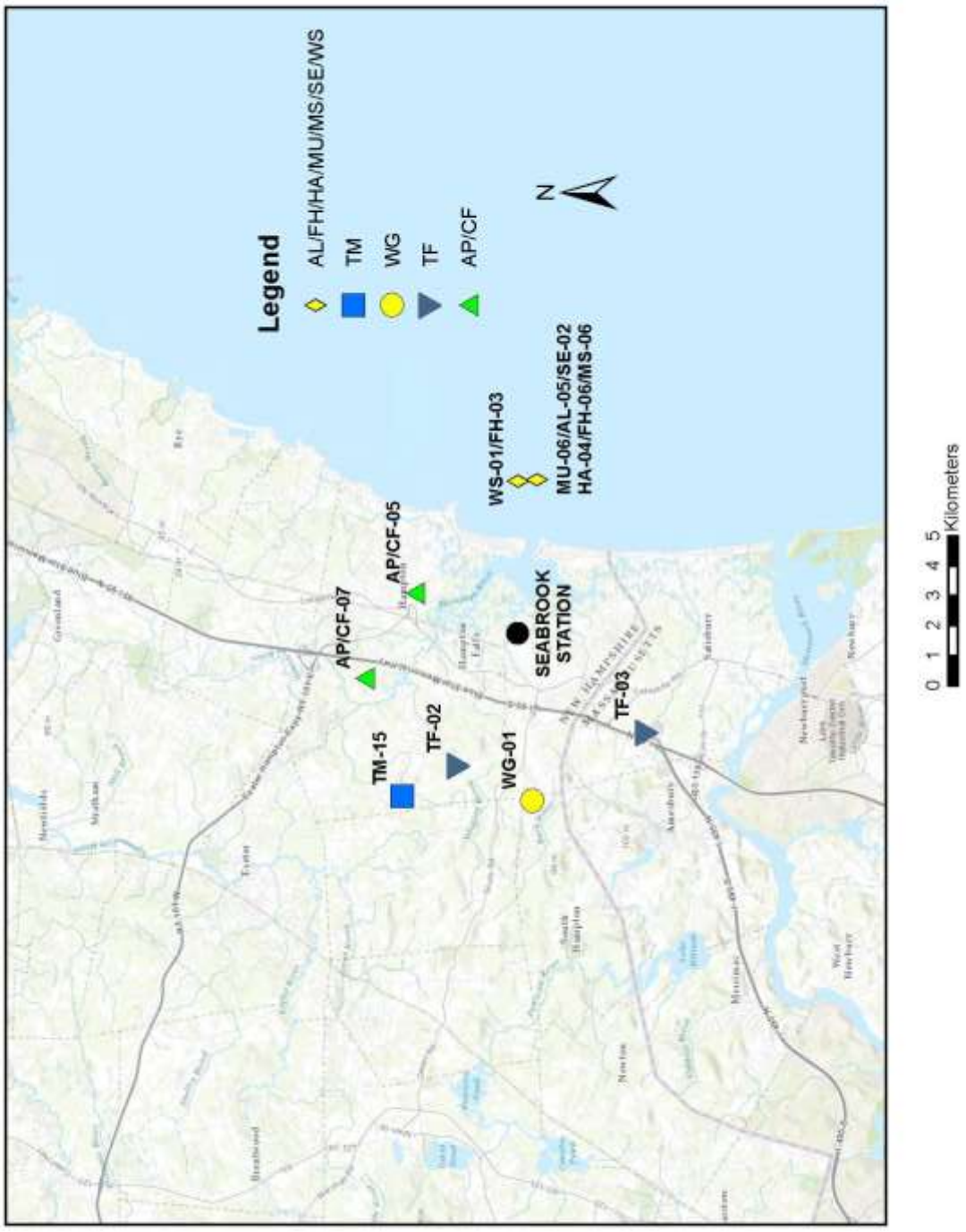


Figure 2.3 Radiological Environmental Monitoring Locations Outside 12 Km of Seabrook Station

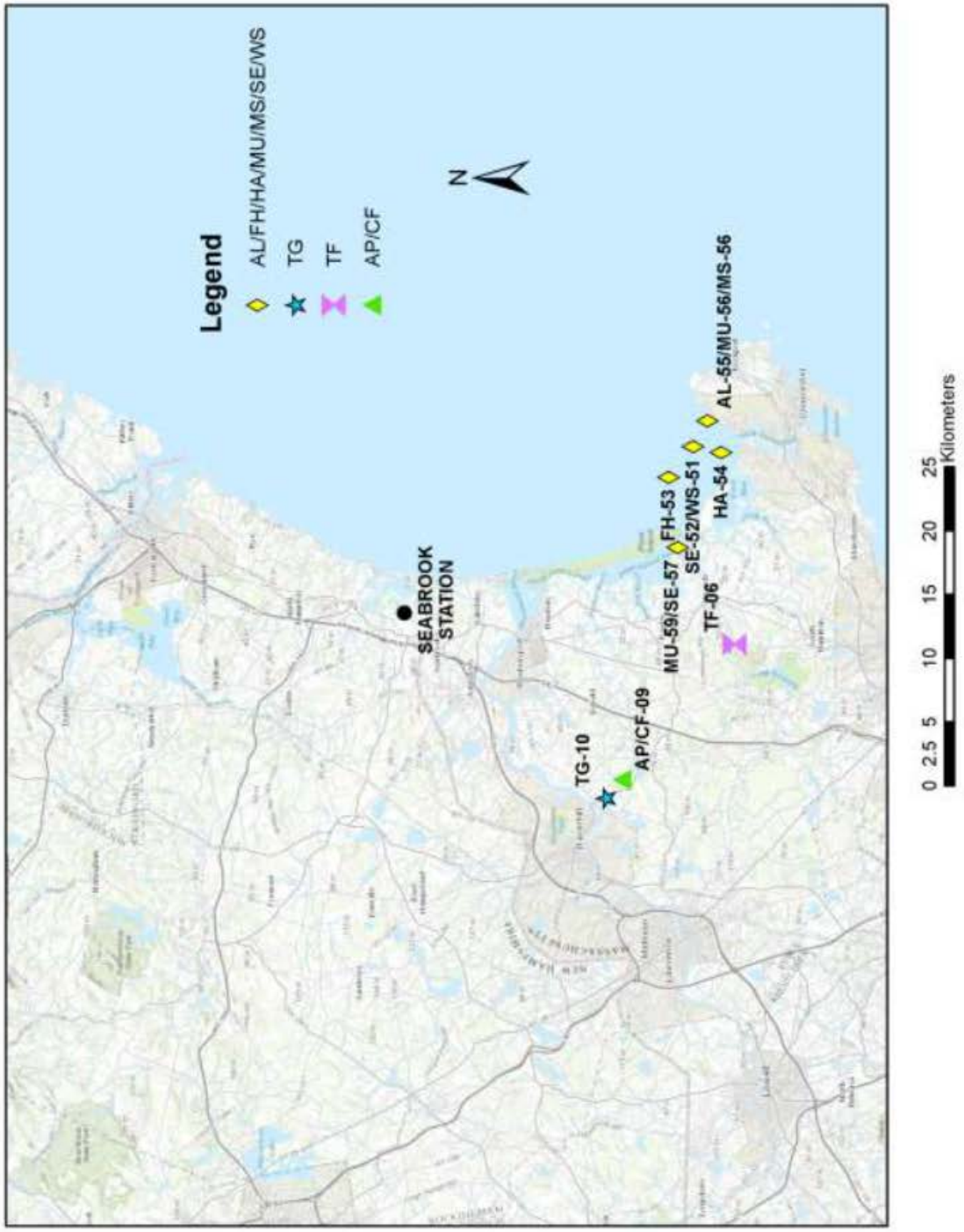


Figure 2.4 Direct Radiation Monitoring Locations Within 4 Km of Seabrook Station

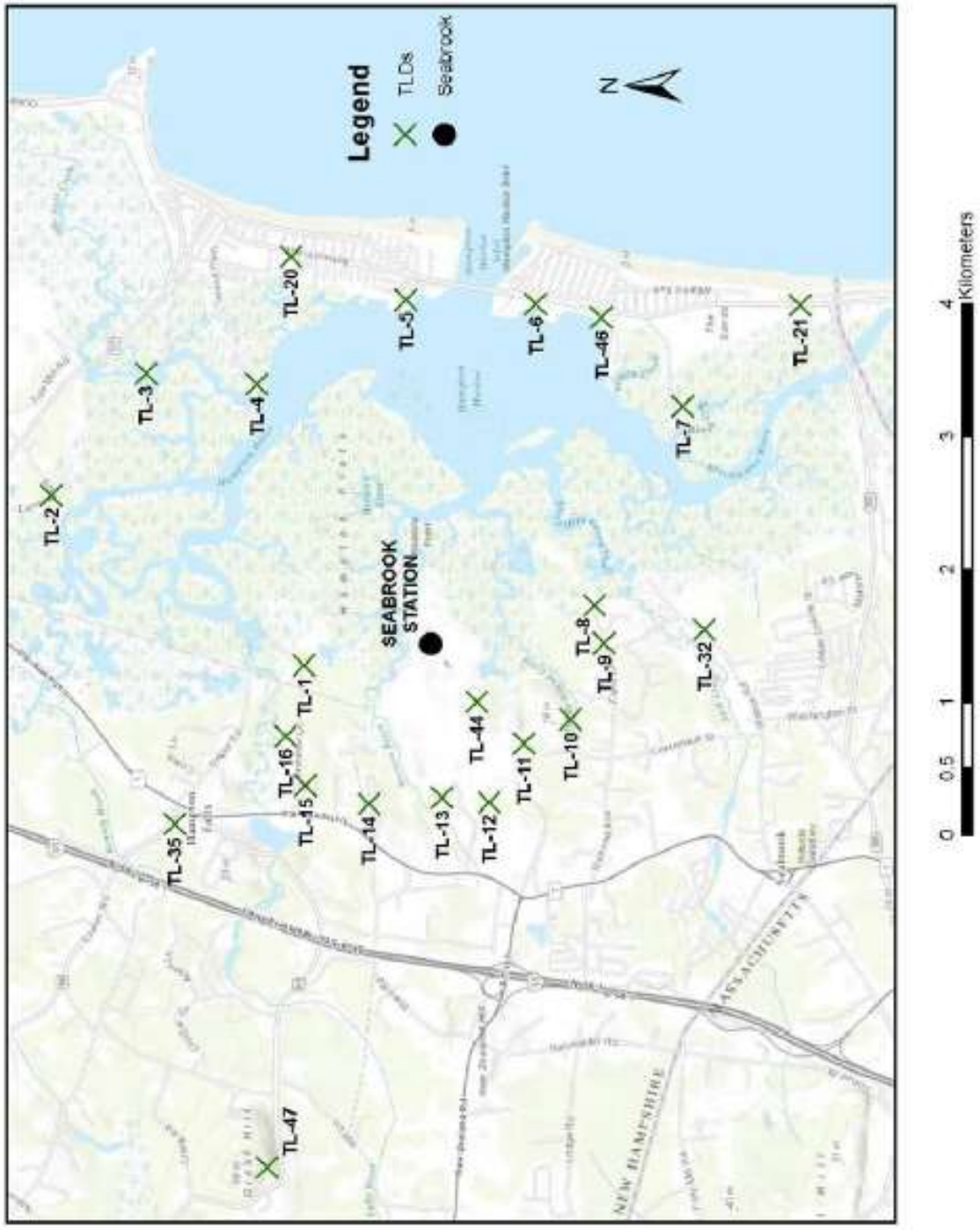


Figure 2.5 Direct Radiation Monitoring Locations Between 4 & 12 Km of Seabrook Station

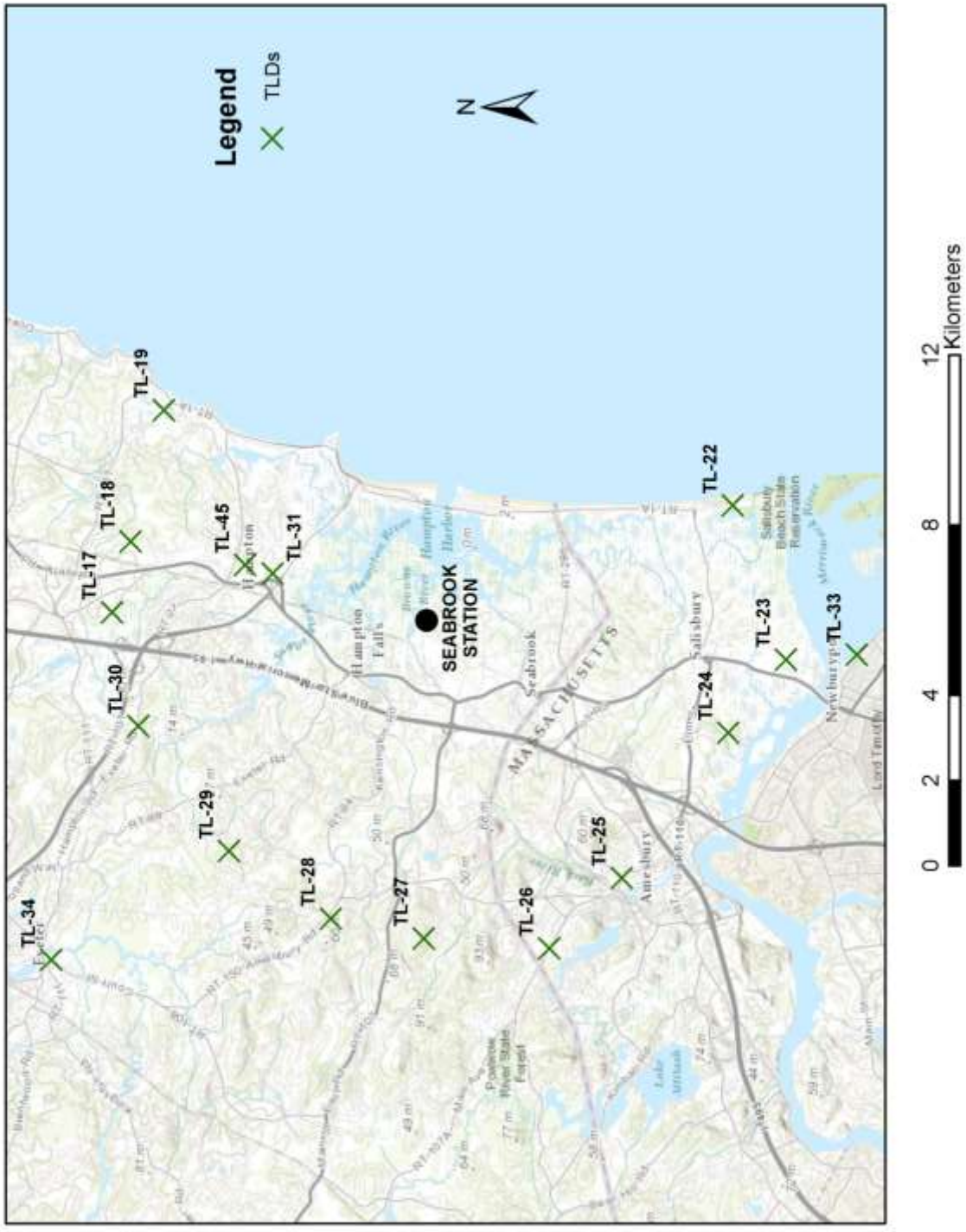
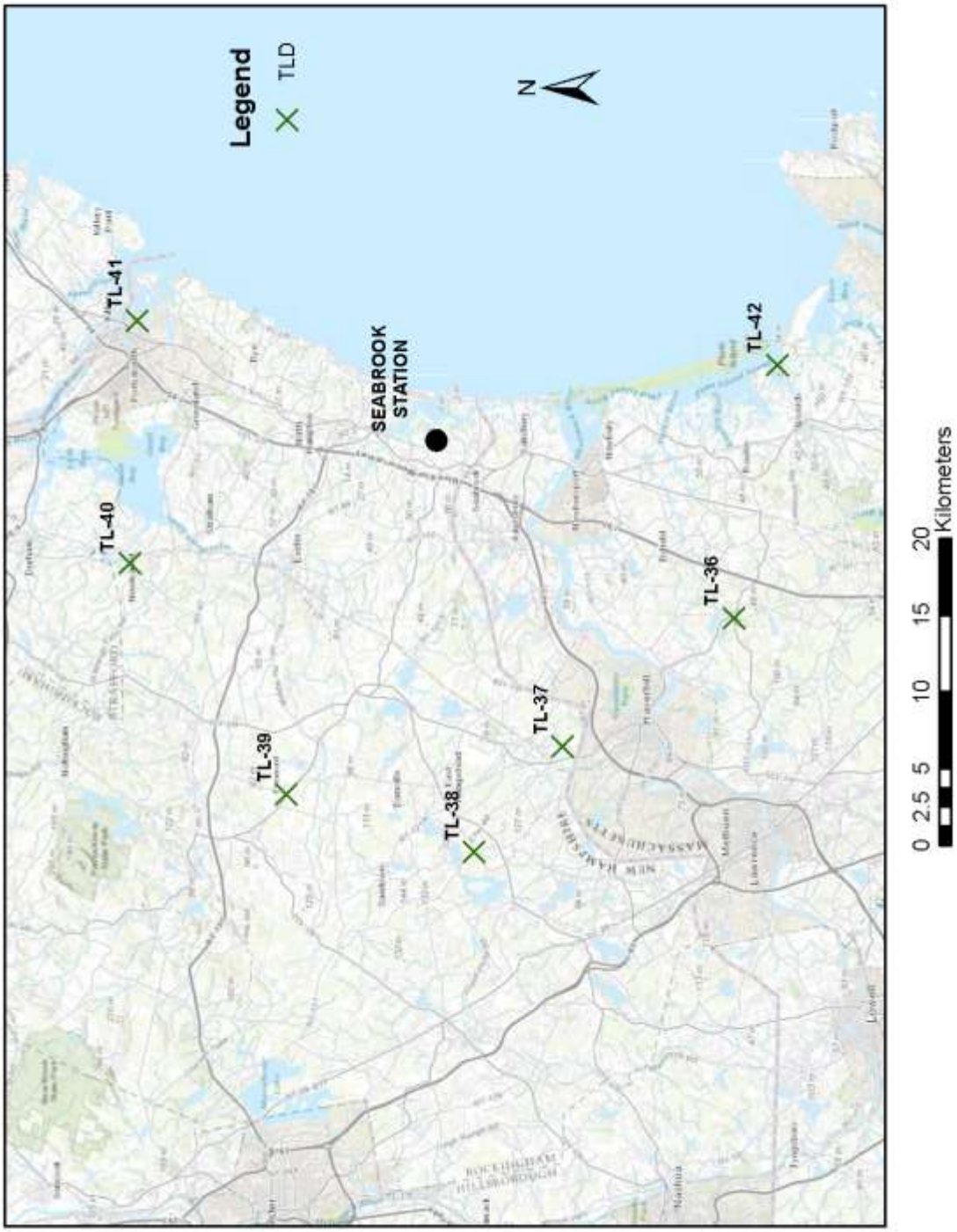


Figure 2.6 Direct Radiation Monitoring Locations Outside 12 Km of Seabrook Station



3.0 Summary of Plant Operations Radiological Environmental Monitoring Data

The following pages summarize the analytical results of the plant operations environmental samples collected in 2021. Each environmental media category is presented as a separate subsection. A table that summarizes the data follows a discussion of the sampling requirements and results for each media type. Listed at the top of each table are the units of measurement for each medium. The left-hand column contains the radionuclide which is being reported, total number of analyses of that radionuclide, and the number of measurements that exceed the required reporting level as documented in Table A.9.1-3 of the ODCM. The latter are classified as "non-routine" measurements. The next column lists the Lower Limit of Detection (LLD) for those radionuclides that have detection capability requirements specified in the ODCM.

Those sampling stations which are adjacent to the plant and which could conceivably be affected by the operation of Seabrook Station are called "Indicator" or "Zone 1" stations. Distant stations, which are beyond potential plant influences, are called "Control" or "Zone 2" stations.

A set of statistical parameters is calculated for each radionuclide. This set of statistical parameters includes separate analyses for (1) the indicator stations, (2) the station having the highest annual mean concentration for that radionuclide, and (3) control stations. For each of the three groups of data, these parameters are as follows:

- The mean value of all concentrations,
- The range of values and
- The number of positive measurements (a concentration which is greater than the MDC for the measurement) divided by the total number of measurements.

Each radioactivity measurement datum in this report is based on a single measurement and is reported as a concentration plus or minus a one standard deviation uncertainty. The quoted uncertainty term represents only the random uncertainty associated with the radioactive decay process (counting statistics), and not the propagation of all possible uncertainties in the analytical procedure.

Attachment 1 contains the data for the samples collected in 2021. The results are organized as follows: (1) by sample type; (2) within each sample type the data are alphabetical by nuclide; and (3) within each radionuclide listing the data are chronologically arranged by end date (date of sample collection).

The radionuclide value concentrations have been corrected for radioactive decay. For composite samples, such as air particulates and airborne iodine, the GEL laboratory uses the mid-point of the collection period as the reference for decay correction until time of analysis.

3.1 Air Particulate

Air monitoring stations were established at a total of eight locations, six locations required by the ODCM, Table A.9.1-1, and two additional sites included to supplement the program. Seven of the locations are indicators, while the remaining one is a control station located more than 21 km away from the plant.

Airborne particulates (AP) are collected by passing the air through a glass-fiber filter. In 2021, these filters were typically collected bi-weekly and held for a period (typically 100 hours or more) before being analyzed for gross-beta activity (indicated as BETA in Table 3.1-1) to allow for the decay of Radon and Thoron daughter products. Continuous automated and real-time remote monitoring of vital air sampling system parameters is performed with telemetry that detects power outages, pump failures, filter degradation, tubing failures and excessive filter loading. The telemetry communicates by cellular transmission to a web server that communicates to a shift technician's pager when set-point thresholds are reached, providing 24/7 alert notification. This capability provides for timely identification of problems and corrective actions that reduce the potential loss of air sampling. If periods of high dust loading during the collection period cause a higher than normal differential pressure drop across the collection filters, the collection period may be reduced to weekly cycles to reduce the dust loading. There were no recorded collection cycle reductions due to dust loading in 2021. For the year, 208 particulate filters were collected and analyzed for gross beta activity.

The 2021 gross beta activity analyses for the indicator locations were found to be statistically equivalent to that seen at the control station (positive activity for all samples). The gross beta results are also similar to what was seen in the pre-operational program and for the last thirty years of commercial operation, with the exception of the Fukushima Daiichi related spike in 2011. All filter samples from all stations showed similar trends lines (see Figure 3.1) over the course of the year and from previous years (see Figures 3.1.1, 3.1.2, and 3.1.3). Figure 3.1.4 compares the quarterly average gross beta response of all indicator air sampling stations to the control location over the last 28 years and shows no significant difference in the two data sets. It is also noted that no plant-related radionuclides (by gamma spectroscopy) were identified in any of the quarterly filter composite samples for 2021. The overall fluctuations at all stations seen in the gross beta activity throughout the year can be attributed to changes in environmental conditions unrelated to plant operations. Natural environmental processes such as wind direction, precipitation, snow cover, and soil temperature and moisture affect concentrations of naturally-occurring radionuclides in the atmosphere directly above land.

Gamma isotopic analyses of particulate filters are summarized on Table 3.1-1. The only radionuclides detected were naturally-occurring Be-7, which indicated positive in all air particulate samples, and Th-228, which was positive in three samples. Be-7 is of cosmogenic origin, and its presence is consistent with previous years in both the pre-operational and operational periods.

Near the end of 2010, analysis of environmental samples was changed from the AREVA Environmental Laboratory to GEL Laboratory after the AREVA lab discontinued operations. In comparing long term trends in gross beta activity, the results since 2011 appear to reflect a step increase at the time of the transition between labs. The reason for the step increase is related to the change in the gross beta counting equipment configurations and reference calibration standards used by the AREVA lab and GEL. Both labs use(d) gas proportional counting of the filter element. However, AREVA applied a Cs-137 calibration source while the GEL lab uses a Tc-99 calibration source. In the case of the AREVA data record, the Cs-137 detection efficiency (typically 34%) was applied to the "gross" counts to determine the apparent activity. This inherently presumes that the radioactivity in a field sample is all Cs-137. In the case of the GEL data record, the Tc-99 efficiency (20.6%), is applied to the same "gross" counts as if all the radioactivity in this case is Tc-99. The end result is two different gross beta radioactivity determinations for the same level of environmental activity. In application, this is not an adverse condition in that the gross beta counting is used as a qualitative indicator of changes in environmental conditions, not as a quantitative measure of the actual radioactivity. Since the comparison of the response curves for each monitoring station, including the control station, are similar over time, the curves indicate that there is no detectable influence from a single nearby point source such as Seabrook Station.

The air particulate sampling program demonstrated no off-site dose to the public or impact to the environment from this pathway as the result of plant operations. This is consistent with previous years and the pre-operational program. The REMP Summary Table 3.1-1 lists the range of analysis results by

radionuclide for Indicator and Control Stations for the air particulate environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of air particulates under the Sample Type code AP.

Air particulate sample collection and analysis deviations from the ODCM required program (if any) are described in Section 5.

FIGURE 3.1

GROSS-BETA MEASUREMENTS OF AIR PARTICULATE FILTERS
SEABROOK STATION

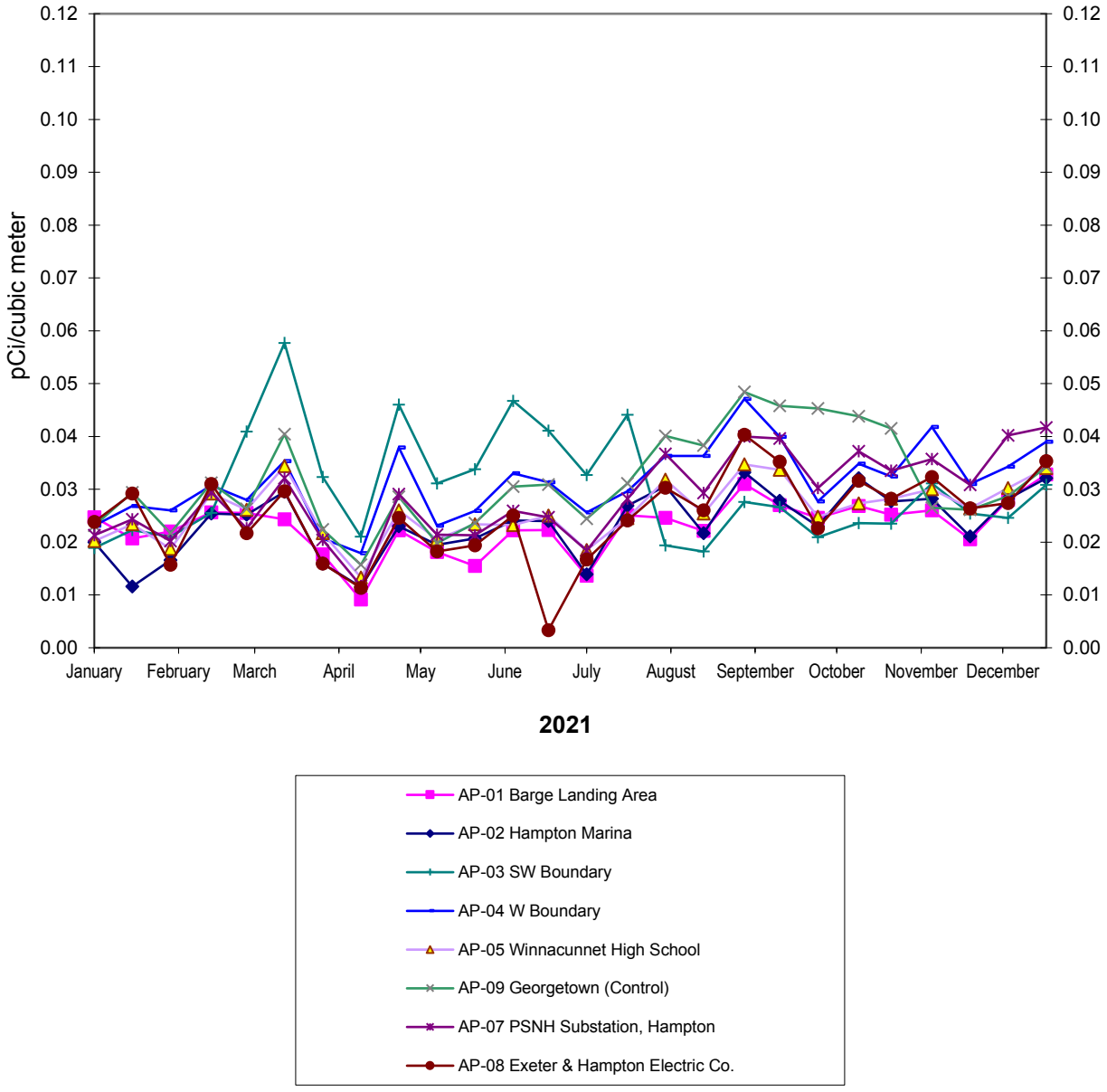


FIGURE 3.1.1

GROSS-BETA MEASUREMENTS OF AIR PARTICULATE FILTERS QUARTERLY AVERAGES
SEABROOK STATION

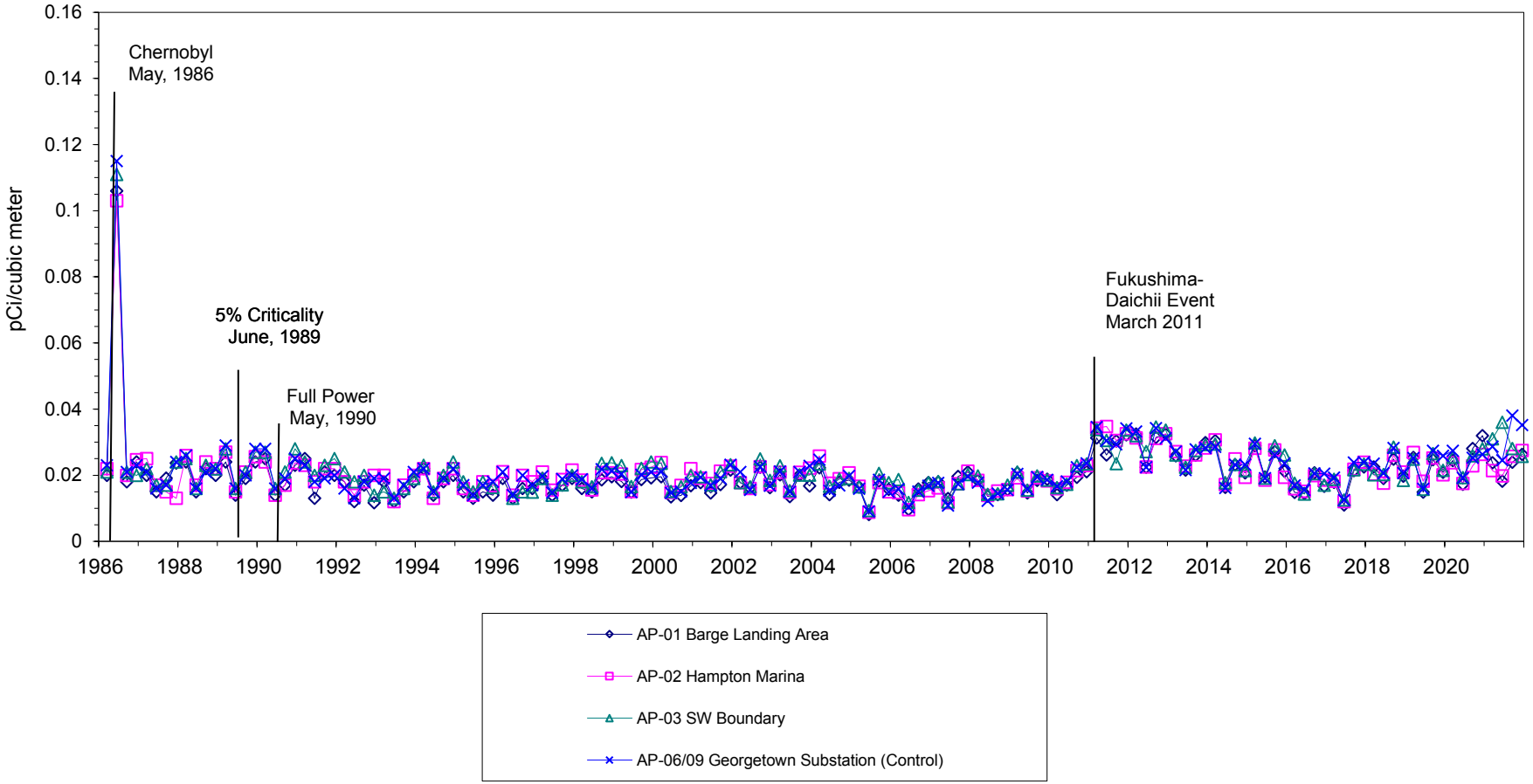


FIGURE 3.1.2

GROSS-BETA MEASUREMENTS OF AIR PARTICULATE FILTERS QUARTERLY AVERAGES
SEABROOK STATION

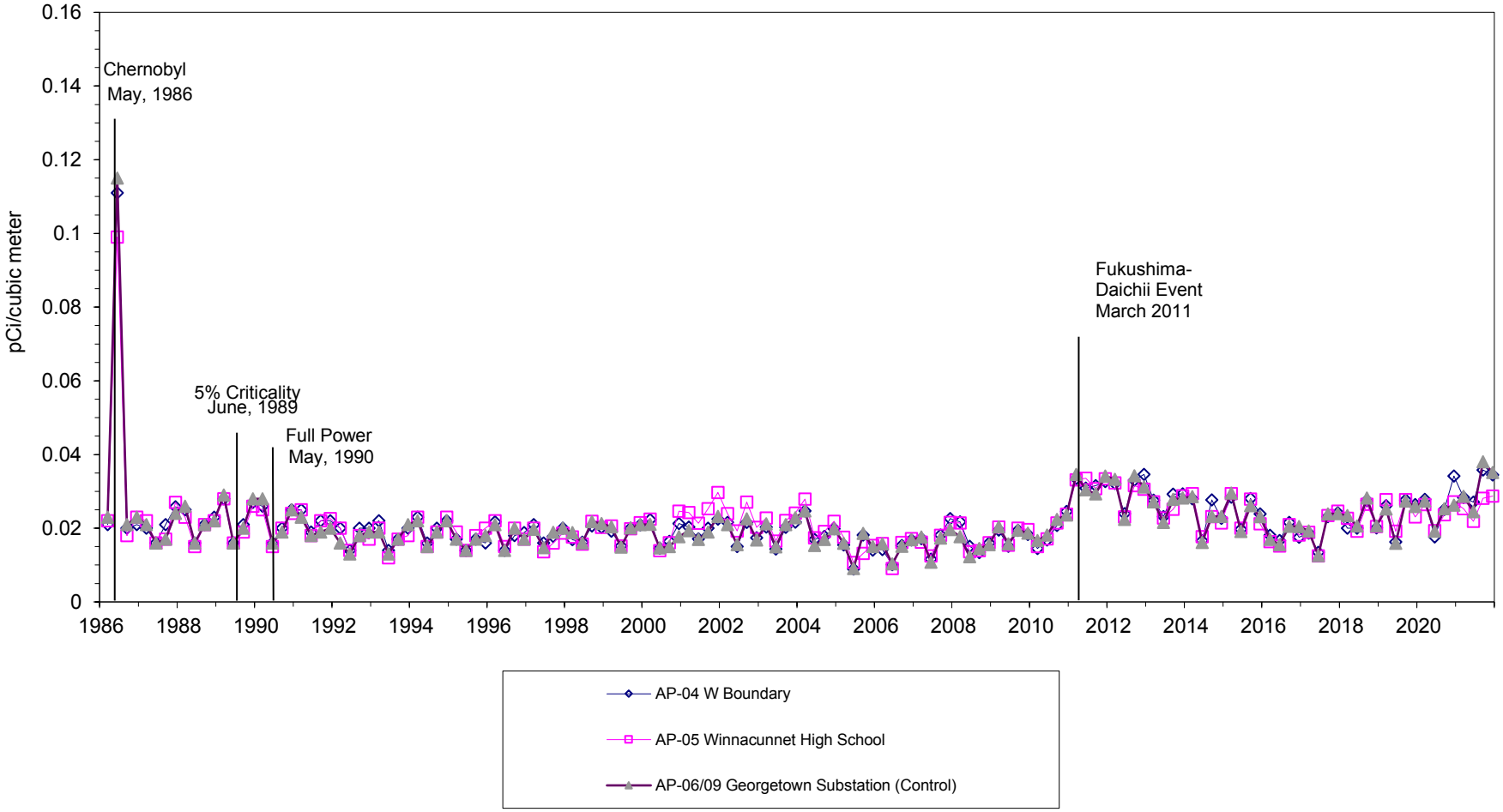


FIGURE 3.1.3

GROSS-BETA MEASUREMENTS OF AIR PARTICULATE FILTERS QUARTERLY AVERAGES
SEABROOK STATION

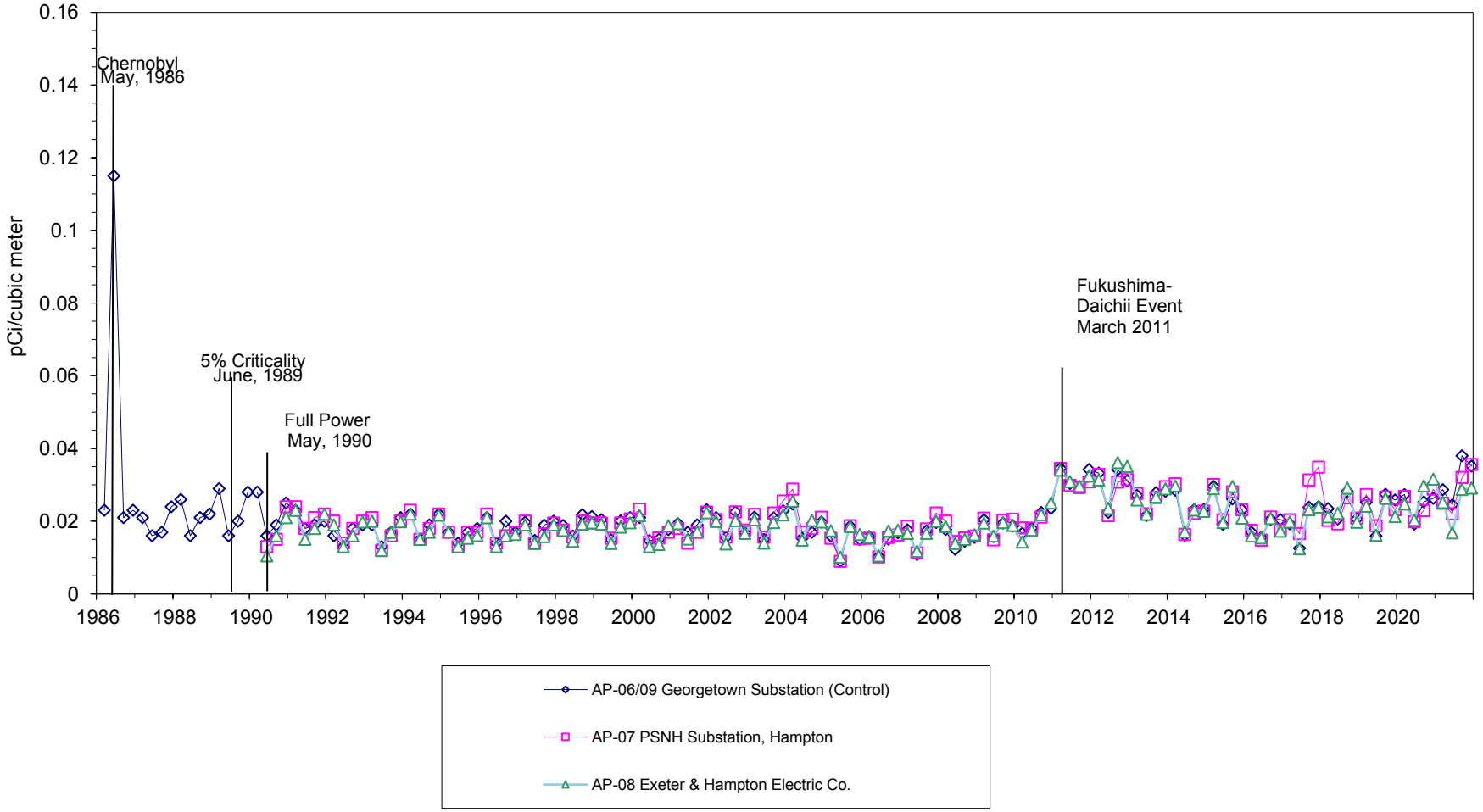


FIGURE 3.1.4

GROSS-BETA ON AIR PARTICULATE FILTERS
QUARTERLY AVERAGES
SEABROOK STATION

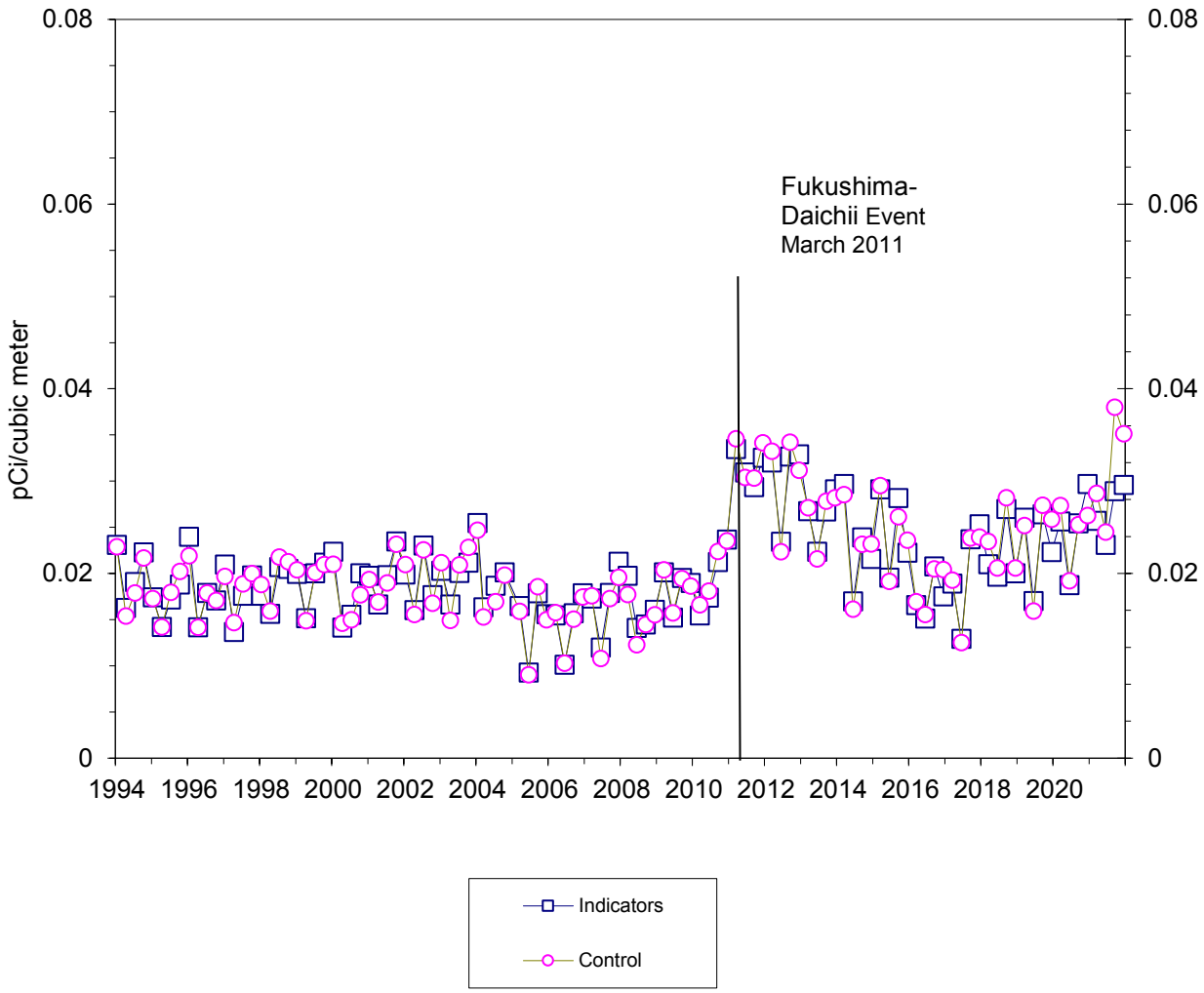


Table 3.1-1
Radiological Environmental Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Air Particulates (AP) UNITS: pCi/cubic meter

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
BETA	**(208)**	0.01	2.7E -2	09	3.1E -2	3.1E -2
	(0)		(3.3 - 57.7)E -3 (182/ 182)		(1.6 - 4.8)E -2 (26/ 26)	(1.6 - 4.8)E -2 (26/ 26)
Be-7	**(32)**		1.3E -1	03	1.5E -1	1.4E -1
	(0)		(8.0 - 24.2)E -2 (28/ 28)		(8.0 - 24.2)E -2 (4/ 4)	(1.1 - 1.9)E -1 (4/ 4)
K-40	**(32)**		8.5E -4	05	2.6E -3	1.5E -3
	(0)		(-4.0 - 4.6)E -3 (0/ 28)		(1.1 - 4.6)E -3 (0/ 4)	(2.3 - 25.4)E -4 (0/ 4)
Cr-51	**(32)**		3.2E -5	04	4.2E -3	8.4E -4
	(0)		(-1.0 - 1.3)E -2 (0/ 28)		(-2.5 - 12.7)E -3 (0/ 4)	(-1.0 - 1.4)E -2 (0/ 4)
Mn-54	**(32)**		2.2E -5	01	5.0E -5	-5.2E -5
	(0)		(-1.6 - 2.3)E -4 (0/ 28)		(-8.6 - 131.0)E -6 (0/ 4)	(-3.1 - 0.8)E -4 (0/ 4)
Co-57	**(32)**		0.0E 0	02	6.3E -5	0.0E 0
	(0)		(-1.1 - 1.3)E -4 (0/ 28)		(3.7 - 13.4)E -5 (0/ 4)	(-3.6 - 3.4)E -5 (0/ 4)
Co-58	**(32)**		-3.2E -5	07	1.6E -4	-7.5E -5
	(0)		(-5.7 - 3.1)E -4 (0/ 28)		(3.0 - 28.7)E -5 (0/ 4)	(-2.7 - 1.2)E -4 (0/ 4)
Fe-59	**(32)**		1.1E -4	01	3.9E -4	-1.0E -4
	(0)		(-1.2 - 1.2)E -3 (0/ 28)		(-4.1 - 10.2)E -4 (0/ 4)	(-7.5 - 4.8)E -4 (0/ 4)
Co-60	**(32)**		5.9E -5	02	1.6E -4	-7.3E -5
	(0)		(-1.5 - 6.5)E -4 (0/ 28)		(-1.1 - 6.5)E -4 (0/ 4)	(-5.0 - 3.0)E -4 (0/ 4)
Zn-65	**(32)**		-6.4E -5	09	1.9E -4	1.9E -4
	(0)		(-8.6 - 6.1)E -4 (0/ 28)		(9.5 - 45.7)E -5 (0/ 4)	(9.5 - 45.7)E -5 (0/ 4)
Se-75	**(32)**		0.0E 0	01	1.3E -4	-4.2E -5
	(0)		(-4.0 - 3.2)E -4 (0/ 28)		(9.9 - 322.0)E -6 (0/ 4)	(-3.3 - 3.3)E -4 (0/ 4)
Nb-95	**(32)**		4.4E -5	03	1.9E -4	2.2E -5
	(0)		(-4.9 - 7.0)E -4 (0/ 28)		(-4.9 - 51.9)E -5 (0/ 4)	(-3.0 - 2.9)E -4 (0/ 4)
Zr-95	**(32)**		1.4E -4	01	4.3E -4	6.3E -5
	(0)		(-6.4 - 12.2)E -4 (0/ 28)		(-1.1 - 12.2)E -4 (0/ 4)	(-5.4 - 3.4)E -4 (0/ 4)
Ru-103	**(32)**		-1.2E -4	02	4.8E -5	-2.1E -4
	(0)		(-8.6 - 9.5)E -4 (0/ 28)		(-5.2 - 9.5)E -4 (0/ 4)	(-9.7 - 1.0)E -4 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.1-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Air Particulates (AP) UNITS: pCi/cubic meter

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
Ru-106	**(32)**		1.9E -4	09	6.7E -4	6.7E -4
	(0)		(-1.5 - 1.2)E -3 (0/ 28)		(-6.8 - 29.9)E -4 (0/ 4)	(-6.8 - 29.9)E -4 (0/ 4)
Ag-108m	**(32)**		0.0E 0	04	2.9E -5	0.0E 0
	(0)		(-1.5 - 2.2)E -4 (0/ 28)		(-1.5 - 2.2)E -4 (0/ 4)	(-7.5 - 9.9)E -5 (0/ 4)
Ag-110m	**(32)**		0.0E 0	03	2.0E -4	0.0E 0
	(0)		(-9.4 - 3.9)E -4 (0/ 28)		(-2.2 - 393.0)E -6 (0/ 4)	(-2.4 - 2.8)E -5 (0/ 4)
Sb-124	**(32)**		-1.8E -4	03	6.9E -5	2.2E -5
	(0)		(-1.1 - 1.5)E -3 (0/ 28)		(-6.1 - 14.8)E -4 (0/ 4)	(-3.4 - 7.5)E -4 (0/ 4)
Sb-125	**(32)**		-6.4E -5	04	1.5E -4	1.4E -4
	(0)		(-6.4 - 6.7)E -4 (0/ 28)		(-1.9 - 6.7)E -4 (0/ 4)	(-2.6 - 3.3)E -4 (0/ 4)
I-131	**(32)**		-2.9E -2	07	3.0E -2	-6.4E -2
	(0)		(-3.8 - 1.2)E -1 (0/ 28)		(0.0 - 1.2)E -1 (0/ 4)	(-1.9 - 0.0)E -1 (0/ 4)
Cs-134	**(32)**	0.05	5.4E -5	04	1.1E -4	0.0E 0
	(0)		(-1.5 - 4.6)E -4 (0/ 28)		(-6.2 - 45.5)E -5 (0/ 4)	(-2.5 - 4.0)E -4 (0/ 4)
Cs-137	**(32)**	0.06	4.8E -5	01	9.7E -5	5.4E -5
	(0)		(-1.4 - 2.0)E -4 (0/ 28)		(2.9 - 16.0)E -5 (0/ 4)	(-1.7 - 8.9)E -5 (0/ 4)
Ba-140	**(32)**		-9.3E -3	05	1.3E -2	1.2E -2
	(0)		(-9.2 - 4.0)E -2 (0/ 28)		(-3.6 - 40.3)E -3 (0/ 4)	(-2.8 - 36.2)E -3 (0/ 4)
La-140	**(32)**		-1.7E -3	09	1.5E -2	1.5E -2
	(0)		(-2.2 - 2.1)E -2 (0/ 28)		(7.0 - 28.6)E -3 (0/ 4)	(7.0 - 28.6)E -3 (0/ 4)
Ce-141	**(32)**		-2.4E -4	01	1.9E -4	-1.7E -4
	(0)		(-2.0 - 0.8)E -3 (0/ 28)		(-1.8 - 5.7)E -4 (0/ 4)	(-8.7 - 10.0)E -4 (0/ 4)
Ce-144	**(32)**		1.1E -4	07	3.7E -4	-7.3E -5
	(0)		(-8.8 - 16.1)E -4 (0/ 28)		(-1.2 - 61.5)E -5 (0/ 4)	(-3.4 - 2.5)E -4 (0/ 4)
Ac-228	**(32)**		3.8E -4	01	5.7E -4	3.6E -4
	(0)		(-4.0 - 15.4)E -4 (0/ 28)		(-1.9 - 13.4)E -4 (0/ 4)	(-7.7 - 13.7)E -4 (0/ 4)
Th-228	**(32)**		3.5E -4	05	5.5E -4	2.2E -4
	(0)		(0.0 - 9.9)E -4 (3/ 28)		(0.0 - 9.9)E -4 (1/ 4)	(0.0 - 4.6)E -4 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.2 Charcoal Filters

Charcoal filter (CF) cartridges are placed in series behind the air particulate glass-fiber filters at each of the air sampling locations. Monitoring stations were established at a total of eight locations. Seven of these are indicators and one is a control. Charcoal filters from the air sampling stations were collected and analyzed for I-131 activity to a lower limit of detection (LLD) of 0.07 pCi/m^3 or lower.

During 2021, a total of 208 charcoal cartridges from eight locations were analyzed. As described for the air particulate samplers (see Section 3.1), the collection cycles for the charcoal filters were biweekly during 2021. Off-normal conditions, such as observed high differential pressure across the associated particulate filter (none detected in 2021) which might be indicative of excessive dust loading, could prompt switching to a temporary weekly cycle (see Section 3.1).

No sample analyses indicated a detectable level for I-131 that was statistically relevant (positive) at any of the air sampling locations during the year. Figure 3.2 shows the I-131 measurement responses in 2021 for all air sampling stations. All analyses were below their respective measurement minimum detectable concentrations (MDC).

From initial criticality in June 1989 to the Fukushima Daiichi accident in March 2011, the Seabrook REMP program had not detected I-131 at any offsite air sample locations. Following the March – April 2011 air concentration spikes of I-131 related to the Fukushima Daiichi accident releases, no detectable I-131 has been observed. The pre-operational data for I-131 are consistent with present (2021) data. Therefore, there are no increasing or decreasing trends related to Seabrook Station operations for airborne I-131. The potential organ doses from I-131 in gaseous effluents, if assumed to be released at the MDA, are well below the 10CFR50, Appendix I dose criteria.

The REMP Summary Table 3.2-1 list the range of analysis results for iodine (I-131) at both Indicator and Control Stations. Attachment 1 to this report lists the individual analysis results for each air sample measurement under the Sample Type code CF.

Charcoal filter sample collection and analysis deviations from the ODCM required program (if any) are described in Section 5.

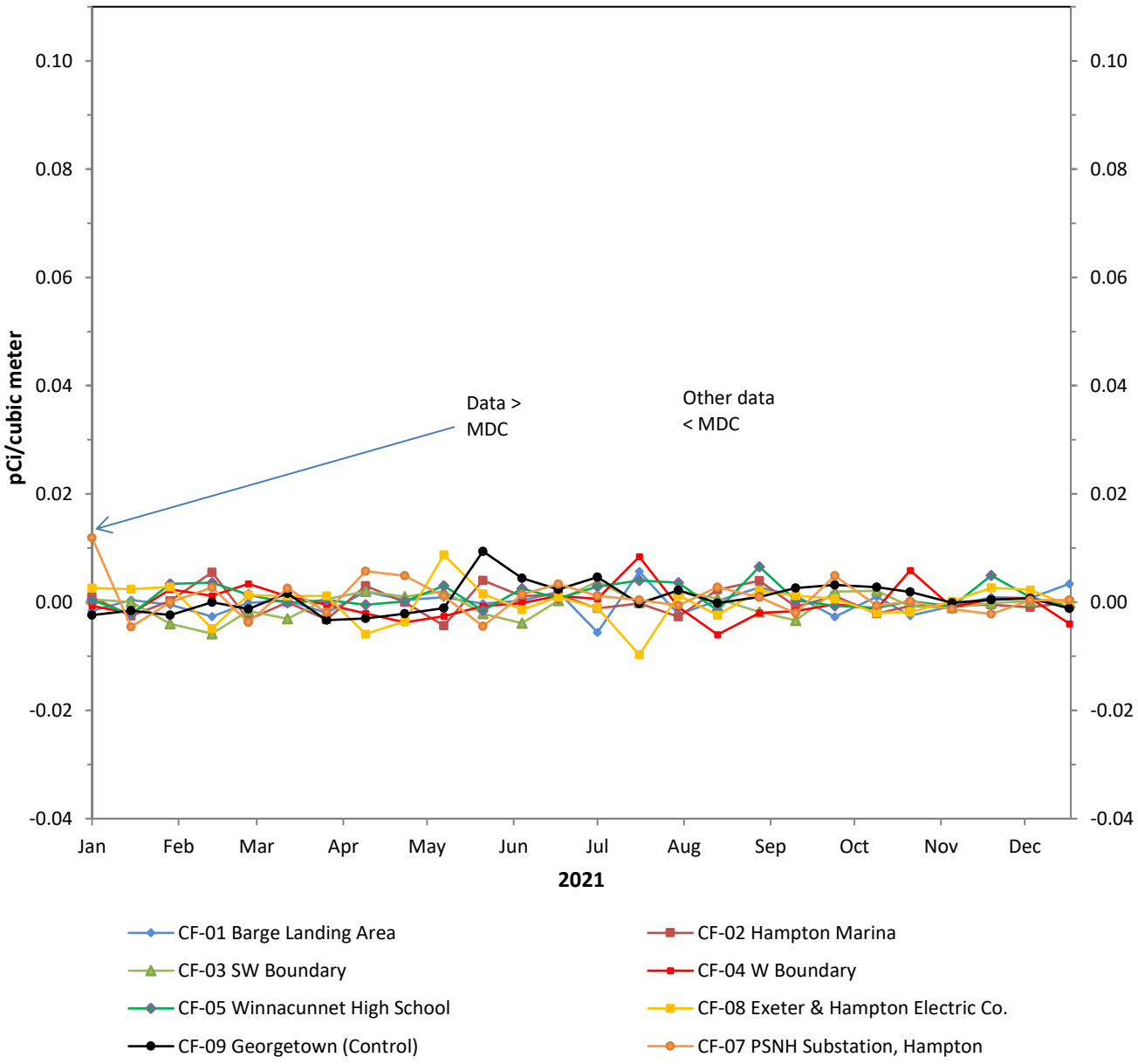
Table 3.2-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Charcoal Cartridge (CF) UNITS: pCi/cubic meter

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
I-131	**(208)**	0.07	2.1E -4	05	1.1E -3	7.0E -4
	(0)		(-9.7 - 11.9)E -3 (0/ 182)		(-2.3 - 6.6)E -3 (0/ 26)	(-3.3 - 9.4)E -3 (0/ 26)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

FIGURE 3.2
I-131 MEASUREMENTS OF AIR CHARCOAL CARTRIDGES
SEABROOK STATION



3.3 Milk

Milk samples (TM) were collected semi-monthly during the pasture season and monthly at other times. Samples are analyzed for low level I-131 and gamma-emitting radionuclides.

The ODCM (Table A.9.1-1) requires that milk samples be collected from three locations within 5 km of the plant having the highest dose potential. If there are none, then one sample is required from milking animals in each of three areas between 5 to 8 km from the plant where the doses are calculated to be greater than 1 mrem/yr. Due to the limited inventory of milk animals in the site area, as reconfirmed by the 2021 Land Use Census, the number of available sample locations required by the ODCM sampling program could not be met (insufficient numbers of milk animals within 5 km, and only one milk location [designated TM-15] between 5 and 8 km). The ODCM allows for broad leaf vegetation samples to be collected if milk sampling cannot be performed in accordance to the REMP requirements. As a result, two site boundary locations and one control vegetation location are sampled to compensate for the limited milk availability (see Section 3.12).

A total of 17 milk samples were collected during the year from one available location. Each sample was analyzed for gamma emitting radionuclides. In addition, all samples were evaluated for low levels of I-131 through an iodine extraction process. The gamma analyses on samples indicated that naturally-occurring K-40 was detectable in all milk samples. Also detected in three milk samples was Cs-137 at an average concentration of 3.53 pCi/kg (positive measurements only) which falls in the range of past and pre-operational measurements. The highest single Cs-137 analysis result in 2021 was 4.68 pCi/kg. Though the Fukushima Daiichi event in March 2011 may have contributed to the Cs-137 levels observed in milk in 2021, Cs-137 has historically been detected at similar levels in milk before the nuclear accident in Japan. Residual Cs-137 from past weapons testing fallout has been the major contributor attributed to the currently observed values in milk. Figures 3.3, 3.3.1 and 3.3.2 illustrate the analysis results (without regard to whether individual analysis indicated detectable or statistically not detectable concentrations) for Cs-137 in milk over the current period (2021) and previous years.

Iodine-131 was not positively identified at any location for the year. This is consistent with previous years for both the pre-operational and operational phases of the program. One sample did not meet the Lower Limit of Detection (LLD) requirements (1 pCi/kg) for I-131 in milk (LSN 55014001). No increasing or decreasing trends in the radioactivity content of milk were observed.

The REMP Summary Table 3.3-1 lists the range of analysis results by radionuclide for the Indicator station (Historical Control Stations for the milk have ceased operations). Attachment 1 to this report lists the individual analysis results for each measurement of milk under the Sample Type code TM. Section 5 identifies deviations in the sample measurement program (if any), such as missed lower limits of detection (LLD) requirements.

FIGURE 3.3

CESIUM-137 IN MILK
SEABROOK STATION

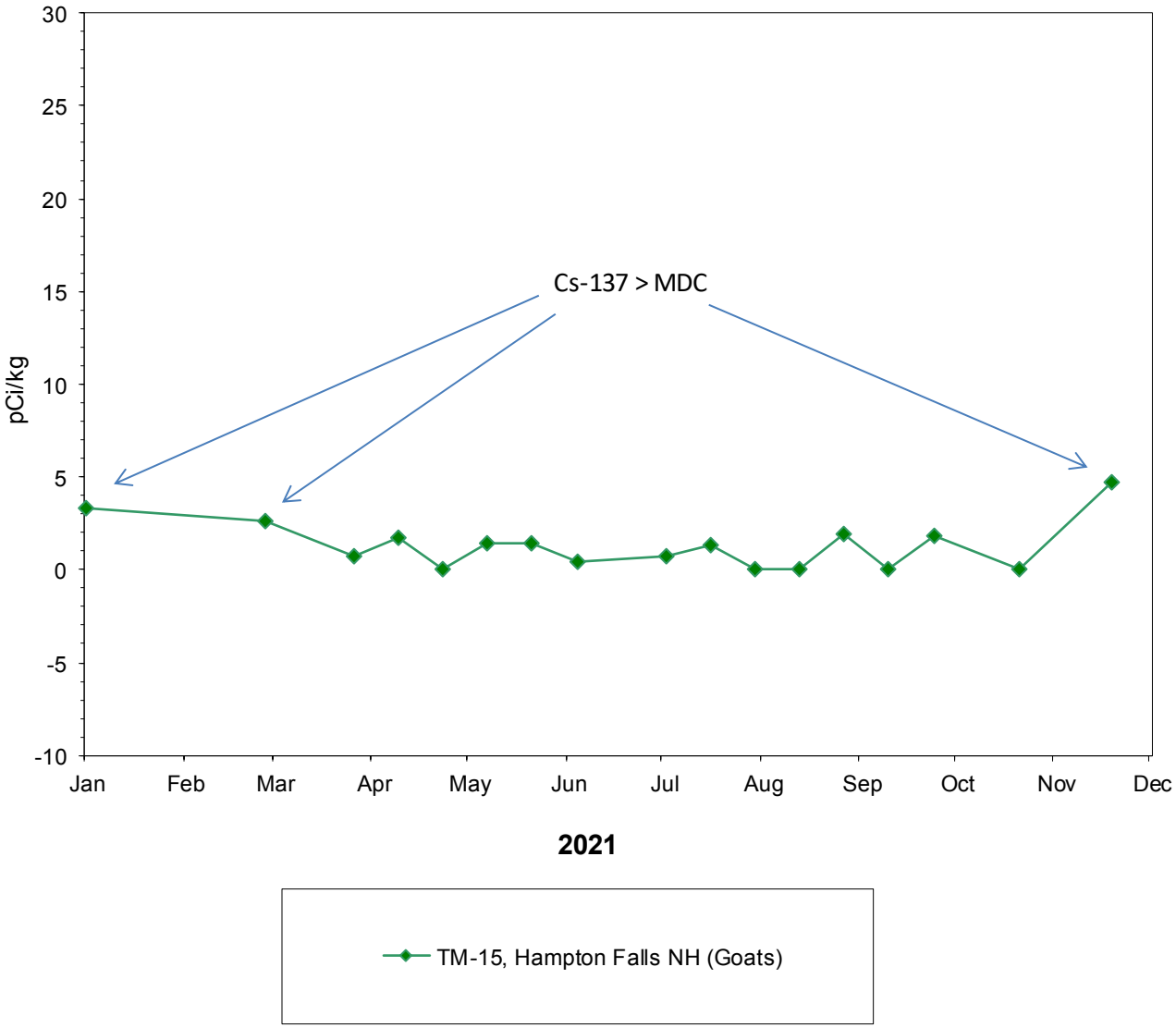


FIGURE 3.3.1

CESIUM-137 IN MILK
ANNUAL AVERAGE CONCENTRATIONS

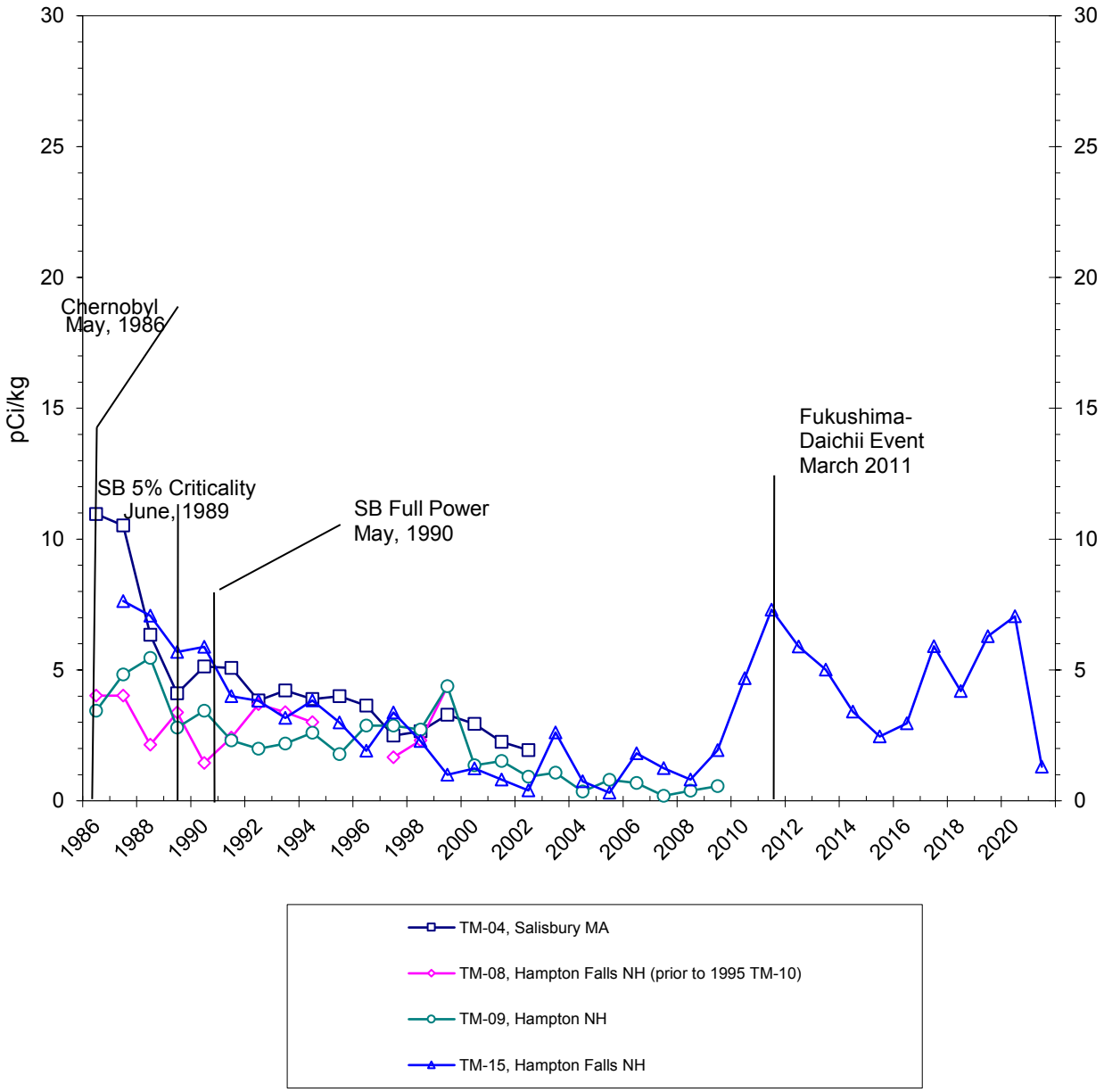


FIGURE 3.3.2

CESIUM-137 IN MILK
ANNUAL AVERAGE CONCENTRATIONS

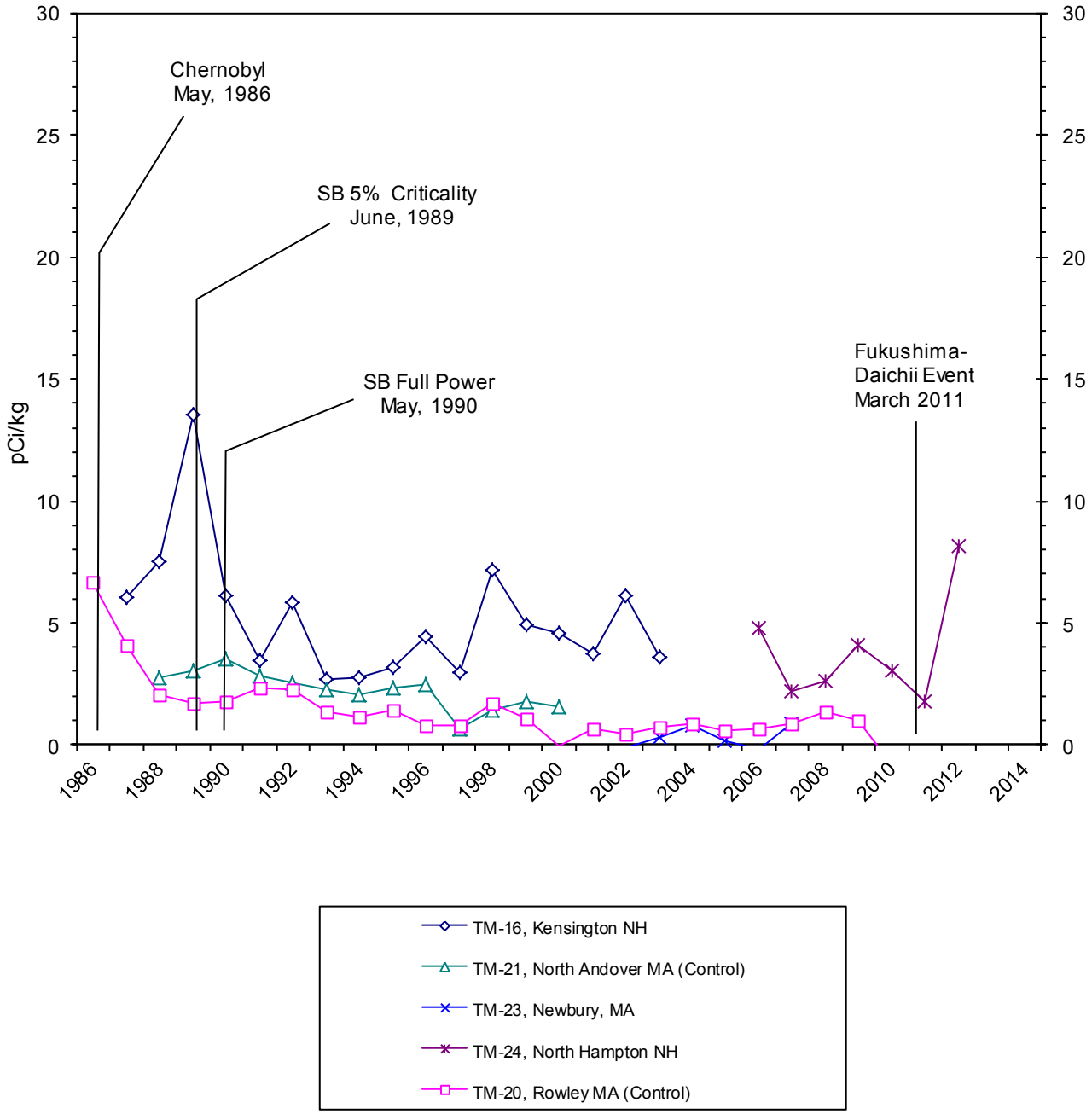


Table 3.3-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Milk (TM) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	**(17)**		1.7E 0	15	1.7E 0	NO DATA
	(0)		(-7.7 - 8.4)E 0 (0/ 17)		(-7.7 - 8.4)E 0 (0/ 17)	
K-40	**(17)**		1.7E 3	15	1.7E 3	NO DATA
	(0)		(1.5 - 2.0)E 3 (17/ 17)		(1.5 - 2.0)E 3 (17/ 17)	
Cr-51	**(17)**		-3.2E -1	15	-3.2E -1	NO DATA
	(0)		(-2.2 - 1.4)E 1 (0/ 17)		(-2.2 - 1.4)E 1 (0/ 17)	
Mn-54	**(17)**		-8.0E -2	15	-8.0E -2	NO DATA
	(0)		(-8.9 - 10.5)E -1 (0/ 17)		(-8.9 - 10.5)E -1 (0/ 17)	
Co-57	**(17)**		7.1E -2	15	7.1E -2	NO DATA
	(0)		(-9.5 - 6.3)E -1 (0/ 17)		(-9.5 - 6.3)E -1 (0/ 17)	
Co-58	**(17)**		5.1E -2	15	5.1E -2	NO DATA
	(0)		(-1.7 - 1.3)E 0 (0/ 17)		(-1.7 - 1.3)E 0 (0/ 17)	
Fe-59	**(17)**		-6.9E -2	15	-6.9E -2	NO DATA
	(0)		(-1.6 - 1.4)E 0 (0/ 17)		(-1.6 - 1.4)E 0 (0/ 17)	
Co-60	**(17)**		-5.7E -2	15	-5.7E -2	NO DATA
	(0)		(-2.7 - 1.9)E 0 (0/ 17)		(-2.7 - 1.9)E 0 (0/ 17)	
Zn-65	**(17)**		-5.5E -1	15	-5.5E -1	NO DATA
	(0)		(-4.7 - 3.0)E 0 (0/ 17)		(-4.7 - 3.0)E 0 (0/ 17)	
Se-75	**(17)**		-9.6E -2	15	-9.6E -2	NO DATA
	(0)		(-1.1 - 0.9)E 0 (0/ 17)		(-1.1 - 0.9)E 0 (0/ 17)	
Nb-95	**(17)**		-1.6E -2	15	-1.6E -2	NO DATA
	(0)		(-2.1 - 1.1)E 0 (0/ 17)		(-2.1 - 1.1)E 0 (0/ 17)	
Zr-95	**(17)**		-6.0E -1	15	-6.0E -1	NO DATA
	(0)		(-3.2 - 1.1)E 0 (0/ 17)		(-3.2 - 1.1)E 0 (0/ 17)	
Ru-103	**(17)**		-4.7E -1	15	-4.7E -1	NO DATA
	(0)		(-1.6 - 0.4)E 0 (0/ 17)		(-1.6 - 0.4)E 0 (0/ 17)	
Ru-106	**(17)**		-1.9E 0	15	-1.9E 0	NO DATA
	(0)		(-9.5 - 4.8)E 0 (0/ 17)		(-9.5 - 4.8)E 0 (0/ 17)	
Ag-108m	**(17)**		4.4E -2	15	4.4E -2	NO DATA
	(0)		(-5.7 - 10.2)E -1 (0/ 17)		(-5.7 - 10.2)E -1 (0/ 17)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.3-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Milk (TM) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ag-110m	**(17)**		8.6E -2	15	8.6E -2	NO DATA
	(0)		(-1.4 - 1.6)E 0		(-1.4 - 1.6)E 0	
			(0/ 17)		(0/ 17)	
Sb-124	**(17)**		-4.1E -1	15	-4.1E -1	NO DATA
	(0)		(-2.1 - 1.7)E 0		(-2.1 - 1.7)E 0	
			(0/ 17)		(0/ 17)	
Sb-125	**(17)**		-4.4E -1	15	-4.4E -1	NO DATA
	(0)		(-1.7 - 1.4)E 0		(-1.7 - 1.4)E 0	
			(0/ 17)		(0/ 17)	
I-131	**(17)**	1	4.6E -2	15	4.6E -2	NO DATA
	(0)		(-3.9 - 5.3)E -1		(-3.9 - 5.3)E -1	
			(0/ 17)		(0/ 17)	
Cs-134	**(17)**	15	1.1E -1	15	1.1E -1	NO DATA
	(0)		(-2.5 - 1.3)E 0		(-2.5 - 1.3)E 0	
			(0/ 17)		(0/ 17)	
Cs-137	**(17)**	18	1.3E 0	15	1.3E 0	NO DATA
	(0)		(0.0 - 4.7)E 0		(0.0 - 4.7)E 0	
			(3/ 17)		(3/ 17)	
Ba-140	**(17)**	15	-3.3E -1	15	-3.3E -1	NO DATA
	(0)		(-8.9 - 6.7)E 0		(-8.9 - 6.7)E 0	
			(0/ 17)		(0/ 17)	
La-140	**(17)**	15	-3.8E -2	15	-3.8E -2	NO DATA
	(0)		(-1.2 - 1.6)E 0		(-1.2 - 1.6)E 0	
			(0/ 17)		(0/ 17)	
Ce-141	**(17)**		1.4E -1	15	1.4E -1	NO DATA
	(0)		(-1.9 - 2.8)E 0		(-1.9 - 2.8)E 0	
			(0/ 17)		(0/ 17)	
Ce-144	**(17)**		-4.6E -1	15	-4.6E -1	NO DATA
	(0)		(-6.4 - 5.2)E 0		(-6.4 - 5.2)E 0	
			(0/ 17)		(0/ 17)	
Pb-212	**(17)**		6.8E -1	15	6.8E -1	NO DATA
	(0)		(-2.1 - 3.3)E 0		(-2.1 - 3.3)E 0	
			(0/ 17)		(0/ 17)	
Pb-214	**(17)**		1.1E 0	15	1.1E 0	NO DATA
	(0)		(-3.5 - 4.7)E 0		(-3.5 - 4.7)E 0	
			(0/ 17)		(0/ 17)	
Bi-214	**(17)**		1.2E 0	15	1.2E 0	NO DATA
	(0)		(-4.2 - 5.2)E 0		(-4.2 - 5.2)E 0	
			(0/ 17)		(0/ 17)	
Ac-228	**(17)**		8.1E -2	15	8.1E -2	NO DATA
	(0)		(-8.3 - 11.3)E 0		(-8.3 - 11.3)E 0	
			(0/ 17)		(0/ 17)	
Th-228	**(17)**		6.8E -1	15	6.8E -1	NO DATA
	(0)		(-2.1 - 3.3)E 0		(-2.1 - 3.3)E 0	
			(0/ 17)		(0/ 17)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.4 Surface Water

Surface water (seawater - WS) grab samples are required at two locations (control and indicator) monthly. The indicator (WS-01) is over the vicinity of the plant's submerged discharge structure. The control location (WS-51) is situated in Ipswich Bay, MA, approximately 26.2 km from the plant. A gamma analysis is performed on each sample. A tritium analysis is performed on the quarterly composite of samples from each ODCM required location. Additional samples were collected from the Seabrook Marsh (WS-10) which borders the immediate plant property. The marsh samples are intended to provide indication of any ground water movement across the site area that might carry contamination into the surface waters of the marsh. Each of these samples is analyzed for both gamma emitters and tritium.

For 2021, a total of 26 gamma analyses were performed on surface water samples. The only radionuclides detected were naturally-occurring K-40, which was detected in all 26 samples, and naturally-occurring Bi-214, which was detected in one sample. The laboratory detected Ba-140 in one sample but identified it as a false positive. No plant-related nuclides were detected. The present data for gamma emitters in seawater is consistent with that of the pre-operational program and previous years of operations. Therefore, no increasing or decreasing trends were observed.

Quarterly composites for the required off-shore locations (Stations WS-01 and WS-51) were analyzed for tritium. A total of 8 off-shore samples (composites) were analyzed in 2021. The quarterly composite samples showed no indication of tritium. All samples met the required minimum LLD (3000 pCi/kg) for tritium in seawater. These results are consistent with pre-operational tritium data. The achieved tritium Minimum Detectable Concentration (MDC) for the quarterly off-shore composite samples averaged 610 pCi/kg.

The calculated dose as the result of plant effluents is not evaluated due to the fact that no plant-related radionuclides were or have been detected in the past. Therefore, no increasing or decreasing trends in dose were observed. This sampling program demonstrates that there is no impact to the public or environment, through this pathway from plant operations.

The REMP Summary Table 3.4-1 lists the range of analysis results by radionuclide for Indicator and Control Stations for the sea water environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of sea water under the Sample Type code WS.

Any sample collection and analysis deviations from the ODCM required program or reportable concentrations that may have occurred during the year are described in Section 5.

Table 3.4-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Sea Water (WS) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
H-3	(8)	3000	-1.4E 2	01	-1.4E 2	-1.5E 2
	(0)		(-2.8 - -0.5)E 2 (0/ 4)		(-2.8 - -0.5)E 2 (0/ 4)	(-3.8 - -0.1)E 2 (0/ 4)
Be-7	(26)		1.3E -1	51	2.1E 0	2.1E 0
	(0)		(-1.5 - 1.2)E 1 (0/ 14)		(-4.1 - 17.0)E 0 (0/ 12)	(-4.1 - 17.0)E 0 (0/ 12)
K-40	(26)	30	3.0E 2	01	3.3E 2	3.1E 2
	(0)		(1.1 - 3.6)E 2 (14/ 14)		(2.8 - 3.6)E 2 (12/ 12)	(2.2 - 3.6)E 2 (12/ 12)
Cr-51	(26)		-2.0E 0	51	1.6E 0	1.6E 0
	(0)		(-1.0 - 0.8)E 1 (0/ 14)		(-1.1 - 1.0)E 1 (0/ 12)	(-1.1 - 1.0)E 1 (0/ 12)
Mn-54	(26)	15	1.1E -1	01	2.5E -1	-1.4E -1
	(0)		(-1.4 - 1.2)E 0 (0/ 14)		(-3.3 - 11.5)E -1 (0/ 12)	(-1.0 - 0.8)E 0 (0/ 12)
Co-57	(26)		2.5E -2	10	5.5E -1	-1.1E -1
	(0)		(-8.9 - 12.6)E -1 (0/ 14)		(5.0 - 5.9)E -1 (0/ 2)	(-9.4 - 6.2)E -1 (0/ 12)
Co-58	(26)	15	-2.8E -1	51	7.1E -2	7.1E -2
	(0)		(-7.3 - 1.5)E -1 (0/ 14)		(-6.5 - 9.6)E -1 (0/ 12)	(-6.5 - 9.6)E -1 (0/ 12)
Fe-59	(26)	30	-5.4E -2	10	7.8E -1	-1.2E -1
	(0)		(-2.5 - 2.6)E 0 (0/ 14)		(-4.2 - 19.7)E -1 (0/ 2)	(-2.0 - 3.4)E 0 (0/ 12)
Co-60	(26)	15	-9.3E -2	01	-5.6E -2	-1.7E -1
	(0)		(-6.7 - 9.2)E -1 (0/ 14)		(-6.7 - 9.2)E -1 (0/ 12)	(-1.4 - 1.7)E 0 (0/ 12)
Zn-65	(26)	30	1.1E -1	01	2.3E -1	1.4E -1
	(0)		(-2.2 - 2.5)E 0 (0/ 14)		(-2.2 - 2.5)E 0 (0/ 12)	(-2.7 - 2.6)E 0 (0/ 12)
Se-75	(26)		3.6E -1	10	4.3E -1	2.8E -1
	(0)		(-5.9 - 12.9)E -1 (0/ 14)		(-1.3 - 87.7)E -2 (0/ 2)	(-1.6 - 2.2)E 0 (0/ 12)
Nb-95	(26)	15	1.7E -1	10	1.2E 0	-2.1E -1
	(0)		(-3.8 - 1.7)E 0 (0/ 14)		(6.4 - 17.3)E -1 (0/ 2)	(-1.0 - 0.6)E 0 (0/ 12)
Zr-95	(26)	15	-2.9E -1	01	-2.0E -1	-5.1E -1
	(0)		(-1.5 - 1.5)E 0 (0/ 14)		(-1.5 - 1.5)E 0 (0/ 12)	(-3.1 - 1.2)E 0 (0/ 12)
Ru-103	(26)		-3.6E -1	10	-1.5E -2	-5.8E -1
	(0)		(-1.2 - 0.3)E 0 (0/ 14)		(-3.0 - 2.7)E -1 (0/ 2)	(-1.9 - 0.0)E 0 (0/ 12)
Ru-106	(26)		3.3E 0	01	3.3E 0	7.5E -1
	(0)		(-6.2 - 9.5)E 0 (0/ 14)		(-6.2 - 9.5)E 0 (0/ 12)	(-7.0 - 6.4)E 0 (0/ 12)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.4-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Sea Water (WS) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ag-108m	**(26)**		-3.9E -2	51	5.4E -2	5.4E -2
	(0)		(-5.4 - 8.2)E -1 (0/ 14)		(-1.3 - 0.8)E 0 (0/ 12)	(-1.3 - 0.8)E 0 (0/ 12)
Ag-110m	**(26)**		-2.0E -3	10	5.8E -1	-5.7E -1
	(0)		(-9.6 - 8.7)E -1 (0/ 14)		(5.5 - 6.0)E -1 (0/ 2)	(-2.2 - 0.4)E 0 (0/ 12)
Sb-124	**(26)**		1.6E -1	10	1.4E 0	1.3E -1
	(0)		(-1.8 - 3.1)E 0 (0/ 14)		(8.7 - 19.9)E -1 (0/ 2)	(-3.1 - 2.8)E 0 (0/ 12)
Sb-125	**(26)**		-2.7E -1	10	-1.8E -2	-4.6E -1
	(0)		(-1.7 - 1.9)E 0 (0/ 14)		(-5.4 - 5.0)E -1 (0/ 2)	(-2.4 - 1.3)E 0 (0/ 12)
I-131	**(26)**	15	-3.2E -1	01	1.6E -1	-3.6E -1
	(0)		(-6.8 - 3.6)E 0 (0/ 14)		(-1.6 - 3.6)E 0 (0/ 12)	(-1.3 - 1.8)E 0 (0/ 12)
Cs-134	**(26)**	15	1.3E -1	10	3.4E -1	3.3E -1
	(0)		(-2.1 - 1.8)E 0 (0/ 14)		(1.1 - 5.6)E -1 (0/ 2)	(-4.5 - 11.4)E -1 (0/ 12)
Cs-137	**(26)**	18	5.5E -2	51	3.1E -1	3.1E -1
	(0)		(-1.4 - 0.8)E 0 (0/ 14)		(-3.4 - 13.0)E -1 (0/ 12)	(-3.4 - 13.0)E -1 (0/ 12)
Ba-140	**(26)**	15	-9.2E -1	51	1.3E 0	1.3E 0
	(0)		(-1.9 - 0.4)E 1 (0/ 14)		(-1.4 - 8.9)E 0 (0/ 12)	(-1.4 - 8.9)E 0 (0/ 12)
La-140	**(26)**	15	-1.4E -1	01	-6.2E -2	-9.0E -1
	(0)		(-1.1 - 1.7)E 0 (0/ 14)		(-1.1 - 1.7)E 0 (0/ 12)	(-4.0 - 0.9)E 0 (0/ 12)
Ce-141	**(26)**		-3.0E -1	01	-2.8E -1	-1.7E 0
	(0)		(-3.2 - 2.4)E 0 (0/ 14)		(-3.2 - 2.4)E 0 (0/ 12)	(-6.9 - 2.1)E 0 (0/ 12)
Ce-144	**(26)**		6.3E -1	10	1.7E 0	4.4E -1
	(0)		(-2.8 - 4.5)E 0 (0/ 14)		(7.6 - 27.4)E -1 (0/ 2)	(-4.4 - 6.7)E 0 (0/ 12)
Pb-212	**(26)**		6.6E -1	10	1.9E 0	-3.3E -1
	(0)		(-1.5 - 3.0)E 0 (0/ 14)		(9.7 - 27.5)E -1 (0/ 2)	(-3.7 - 2.7)E 0 (0/ 12)
Pb-214	**(26)**		1.7E 0	10	2.8E 0	2.8E -1
	(0)		(-1.9 - 4.7)E 0 (0/ 14)		(2.2 - 3.3)E 0 (0/ 2)	(-3.1 - 4.6)E 0 (0/ 12)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses

Table 3.4-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Sea Water (WS) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
Bi-214	**(26)**		-8.3E -2	51	9.8E -1	9.8E -1
	(0)		(-3.2 - 2.9)E 0 (0/ 14)		(-5.4 - 8.5)E 0 (1/ 12)	(-5.4 - 8.5)E 0 (1/ 12)
Ac-228	**(26)**		-1.4E 0	51	1.2E 0	1.2E 0
	(0)		(-5.3 - 4.9)E 0 (0/ 14)		(-4.1 - 10.1)E 0 (0/ 12)	(-4.1 - 10.1)E 0 (0/ 12)
Th-228	**(26)**		6.6E -1	10	1.9E 0	-3.3E -1
	(0)		(-1.5 - 3.0)E 0 (0/ 14)		(9.7 - 27.5)E -1 (0/ 2)	(-3.7 - 2.7)E 0 (0/ 12)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.5 Ground Water

There is no requirement in the ODCM to collect ground water (WG) samples. For the year, quarterly ground water samples were collected when available from three locations. These samples were collected from the town water line (WG-01) supplied to the Site (by the Town of Seabrook), from an inactive well (WG-13) located approximately 1 km north of the plant, and from a private well 1.3 km NNW (WG-14). For 2021, a total of 12 samples were collected. All samples were analyzed for gross-beta activity, gamma-emitters and tritium.

Gross beta activity was detected in six of the twelve samples due to naturally-occurring radium and its daughter products. The gross beta activity is consistent with results from previous years of commercial operations. Figures 3.5 and 3.5.1 indicate the current year (2021) and the long-term measurement history for gross beta in well waters. No tritium or plant-related gamma emitters were detected in any of the ground water samples collected during the year. Table 3.5-1 identifies the results of the search for radionuclides of which only naturally-occurring Pb-212 was detected in two samples, Pb-214 in seven samples, Bi-214 in eight samples, and Th-228 was detected in two of 12 samples.

The dose potential to the public from drinking ground water is not evaluated due to the fact that plant-related radionuclides have not been detected. Therefore, no increasing or decreasing trends were observed. There is no impact to the public, through this pathway, from plant operations.

The REMP Summary Table 3.5-1 lists the range of analysis results by radionuclide for all ground water environmental samples. Attachment 1 to this report lists the individual analysis results for each measurement of ground water under the Sample Type code WG.

Any reportable sample concentrations that may have occurred during the year are described in Section 5.

FIGURE 3.5

GROSS-BETA MEASUREMENTS OF GROUND WATER
SEABROOK STATION

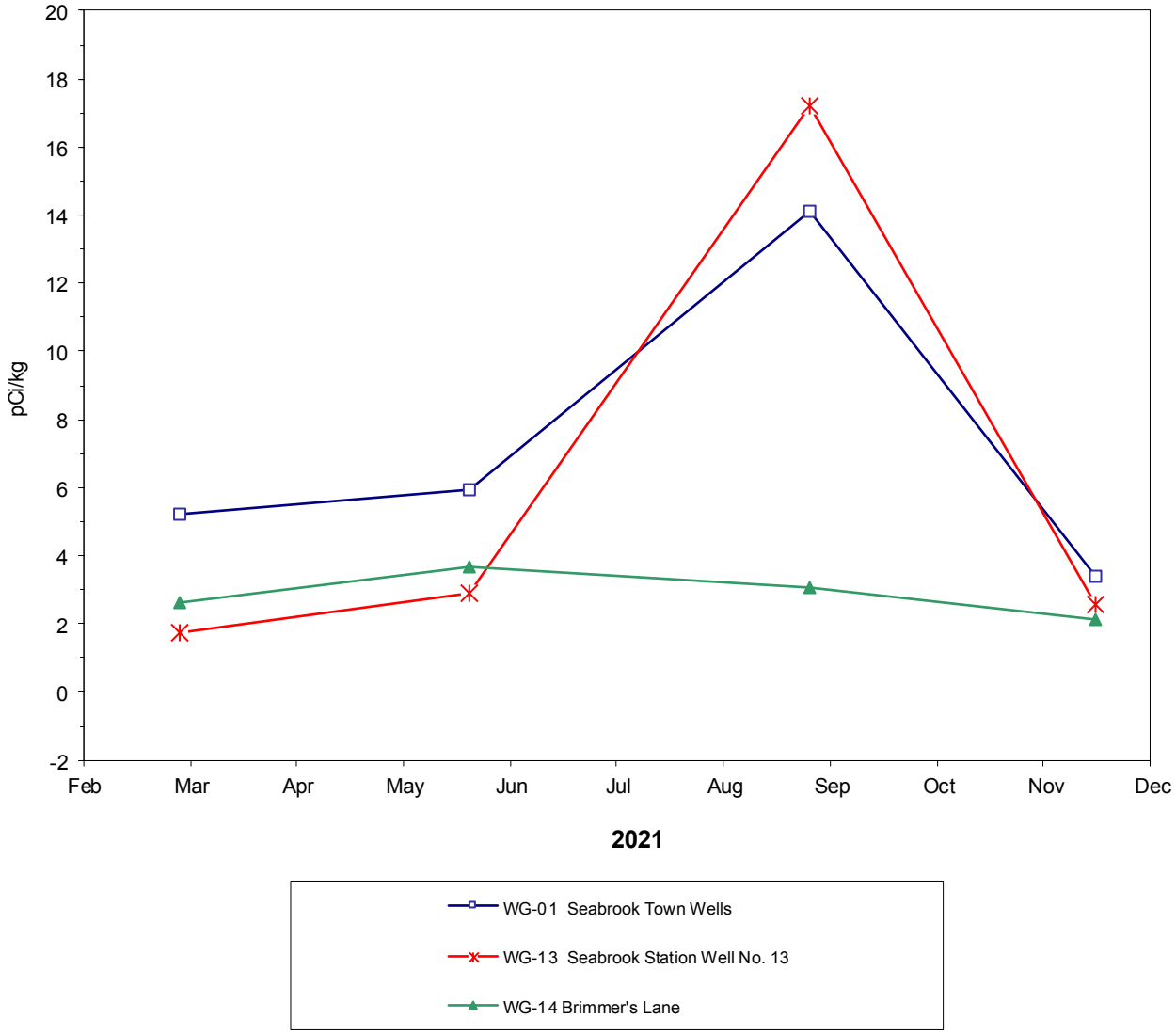


FIGURE 3.5.1

GROSS-BETA MEASUREMENTS OF GROUND WATER
SEMI-ANNUAL AVERAGES
SEABROOK STATION

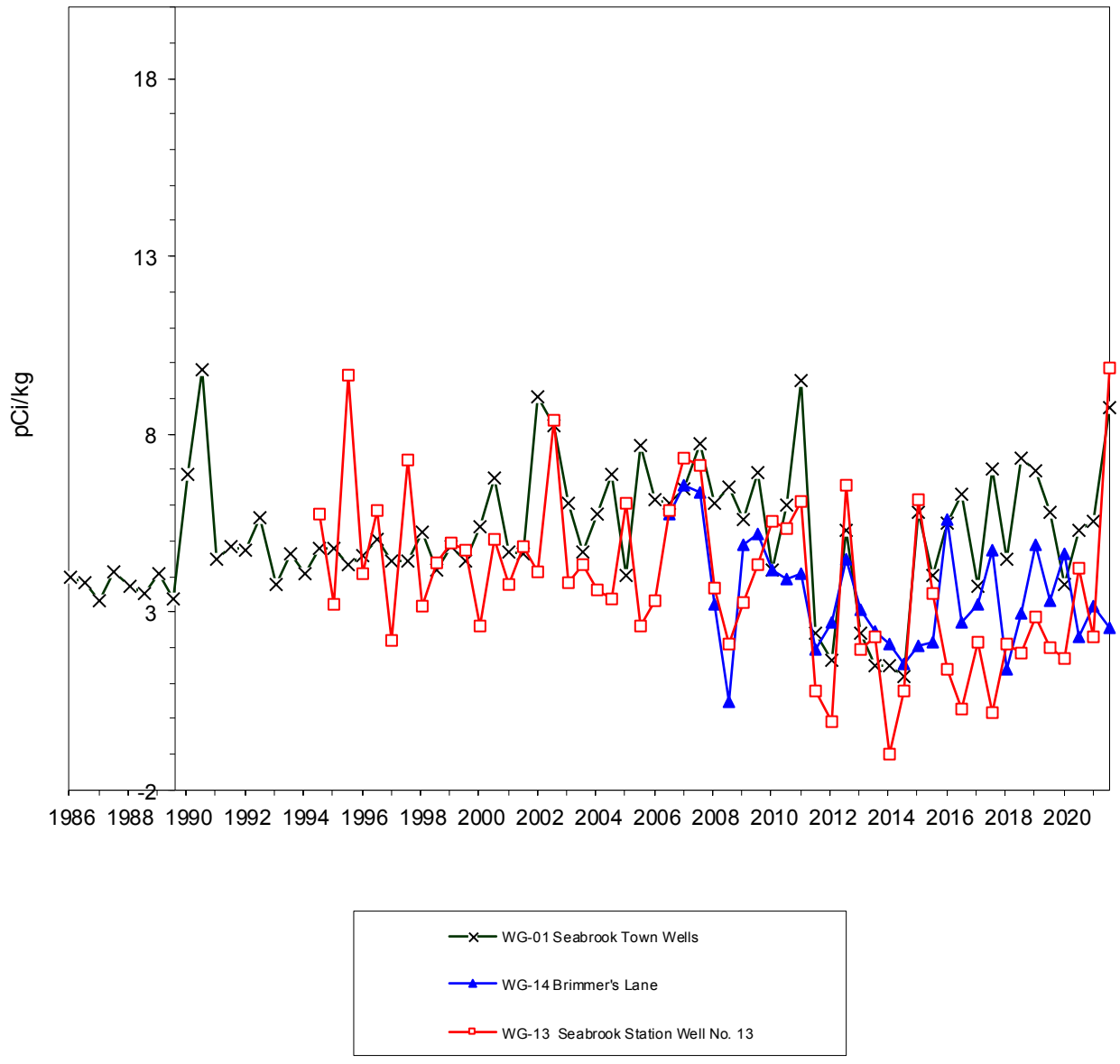


Table 3.5-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Ground Water (WG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
BETA	(12)	4	5.4E 0	01	7.2E 0	NO DATA
	(0)		(1.7 - 17.2)E 0 (6/ 12)		(3.4 - 14.1)E 0 (3/ 4)	
H-3	(12)	3000	1.2E 2	14	1.7E 2	NO DATA
	(0)		(-5.2 - 30.4)E 1 (0/ 12)		(-4.4 - 304.0)E 0 (0/ 4)	
Be-7	(12)		-1.1E 0	13	2.0E 0	NO DATA
	(0)		(-9.2 - 7.2)E 0 (0/ 12)		(-2.4 - 7.2)E 0 (0/ 4)	
K-40	(12)	30	-1.3E 0	01	4.3E 0	NO DATA
	(0)		(-1.4 - 1.4)E 1 (0/ 12)		(0.0 - 1.4)E 1 (0/ 4)	
Cr-51	(12)		-4.6E -2	01	1.9E 0	NO DATA
	(0)		(-7.0 - 11.0)E 0 (0/ 12)		(-2.3 - 5.7)E 0 (0/ 4)	
Mn-54	(12)	15	-2.1E -1	13	1.6E -1	NO DATA
	(0)		(-2.1 - 1.3)E 0 (0/ 12)		(-7.0 - 11.0)E -1 (0/ 4)	
Co-57	(12)		1.8E -3	01	1.3E -1	NO DATA
	(0)		(-4.6 - 2.5)E -1 (0/ 12)		(-9.7 - 23.4)E -2 (0/ 4)	
Co-58	(12)	15	1.8E -1	14	2.7E -1	NO DATA
	(0)		(-4.3 - 14.4)E -1 (0/ 12)		(-4.3 - 14.4)E -1 (0/ 4)	
Fe-59	(12)	30	-2.9E -1	14	-1.0E -2	NO DATA
	(0)		(-2.1 - 1.8)E 0 (0/ 12)		(-1.8 - 1.8)E 0 (0/ 4)	
Co-60	(12)	15	4.4E -1	13	9.7E -1	NO DATA
	(0)		(-1.0 - 2.1)E 0 (0/ 12)		(-5.9 - 20.9)E -1 (0/ 4)	
Zn-65	(12)	30	5.0E -1	13	6.6E -1	NO DATA
	(0)		(-1.1 - 1.7)E 0 (0/ 12)		(-3.6 - 17.2)E -1 (0/ 4)	
Se-75	(12)		5.1E -2	14	2.4E -1	NO DATA
	(0)		(-9.0 - 11.1)E -1 (0/ 12)		(-9.0 - 11.1)E -1 (0/ 4)	
Nb-95	(12)	15	7.0E -2	14	7.6E -1	NO DATA
	(0)		(-1.6 - 1.7)E 0 (0/ 12)		(-5.2 - 17.2)E -1 (0/ 4)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.5-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Ground Water (WG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Zr-95	**(12)**	15	-1.0E -1	01	1.7E -1	NO DATA
	(0)		(-2.2 - 2.4)E 0 (0/ 12)		(-1.7 - 1.6)E 0 (0/ 4)	
Ru-103	**(12)**		-3.0E -1	01	-2.5E -1	NO DATA
	(0)		(-1.2 - 0.3)E 0 (0/ 12)		(-1.2 - 0.1)E 0 (0/ 4)	
Ru-106	**(12)**		2.0E -1	14	2.5E 0	NO DATA
	(0)		(-7.9 - 10.9)E 0 (0/ 12)		(-4.7 - 10.9)E 0 (0/ 4)	
Ag-108m	**(12)**		-7.4E -2	14	9.3E -2	NO DATA
	(0)		(-8.9 - 4.2)E -1 (0/ 12)		(-2.8 - 4.1)E -1 (0/ 4)	
Ag-110m	**(12)**		-1.0E -2	01	1.8E -1	NO DATA
	(0)		(-5.6 - 5.3)E -1 (0/ 12)		(-3.2 - 4.7)E -1 (0/ 4)	
Sb-124	**(12)**		-1.1E -1	13	3.0E -1	NO DATA
	(0)		(-2.7 - 1.7)E 0 (0/ 12)		(-2.7 - 1.7)E 0 (0/ 4)	
Sb-125	**(12)**		-3.1E -1	14	3.6E -1	NO DATA
	(0)		(-2.2 - 1.6)E 0 (0/ 12)		(-1.9 - 1.6)E 0 (0/ 4)	
I-131	**(12)**	15	-7.5E -1	13	1.6E -1	NO DATA
	(0)		(-3.6 - 2.0)E 0 (0/ 12)		(-1.2 - 2.0)E 0 (0/ 4)	
Cs-134	**(12)**	15	2.0E -1	14	5.5E -1	NO DATA
	(0)		(-7.8 - 10.4)E -1 (0/ 12)		(3.5 - 7.8)E -1 (0/ 4)	
Cs-137	**(12)**	18	2.1E -1	14	5.2E -1	NO DATA
	(0)		(-7.1 - 13.5)E -1 (0/ 12)		(-7.1 - 13.5)E -1 (0/ 4)	
Ba-140	**(12)**	15	-1.1E 0	01	-2.3E -2	NO DATA
	(0)		(-9.4 - 2.8)E 0 (0/ 12)		(-3.0 - 2.2)E 0 (0/ 4)	
La-140	**(12)**	15	-5.3E -1	13	-5.1E -2	NO DATA
	(0)		(-2.3 - 1.0)E 0 (0/ 12)		(-1.3 - 1.0)E 0 (0/ 4)	
Ce-141	**(12)**		-8.8E -1	13	1.1E -1	NO DATA
	(0)		(-6.0 - 1.7)E 0 (0/ 12)		(-1.2 - 1.7)E 0 (0/ 4)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., >3 standard deviations with no uncertain identification) is shown in parentheses.

Table 3.5-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Ground Water (WG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)	Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ce-144 (12)		-1.3E -1	01	1.1E 0	NO DATA
(0)		(-5.5 - 6.9)E 0 (0/ 12)		(-2.9 - 5.1)E 0 (0/ 4)	
Pb-212 (12)		-6.5E -3	14	1.5E 0	NO DATA
(0)		(-5.7 - 5.6)E 0 (2/ 12)		(-2.3 - 3.2)E 0 (1/ 4)	
Pb-214 (12)		3.0E 1	14	8.0E 1	NO DATA
(0)		(-3.4 - 166.0)E 0 (7/ 12)		(2.7 - 16.6)E 1 (4/ 4)	
Bi-214 (12)		3.3E 1	14	8.0E 1	NO DATA
(0)		(0.0 - 1.7)E 2 (8/ 12)		(2.8 - 16.8)E 1 (4/ 4)	
Ac-228 (12)		1.7E -1	13	2.5E 0	NO DATA
(0)		(-6.5 - 6.3)E 0 (0/ 12)		(-1.1 - 6.3)E 0 (0/ 4)	
Th-228 (12)		-6.5E -3	14	1.5E 0	NO DATA
(0)		(-5.7 - 5.6)E 0 (2/ 12)		(-2.3 - 3.2)E 0 (1/ 4)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.6 Sediment

Semiannual sediment sampling is required at one indicator location, although a total of five locations, three indicators and two controls, are collected. The indicator stations are comprised of two sets of beach sediment cores from Hampton Beach (SE-07) and Seabrook Beach (SE-08), plus two sub-tidal sediment cores taken from near the discharge structure (SE-02). The control locations, Plum Island Beach (SE-57) and sub-tidal Ipswich Bay (SE-52), are both located within Ipswich Bay. A total of 10 samples were collected for the year from all locations. All cores were analyzed as single or whole samples without segmenting. A gamma analysis was performed on each core.

Table 3.6-1 identifies the results of the search for radionuclides of which several naturally-occurring were detected. The naturally-occurring radionuclides include K-40 and nuclides of the Uranium-238 decay chain (Th-230, Ra-226, Pb-214 and Bi-214) and the Thorium-232 decay chain (Ac-228, Th-228, Pb-212, and Tl-208). No plant-related radionuclides were detected in any core. No increasing or decreasing trends were observed. This is consistent with the pre-operational program and with previous years of plant operations. There is no plant related dose to the public or impact to the environment from any pathways associated with this media.

The REMP Summary Table 3.6-1 lists the range of analysis results by radionuclide for Indicator and Control Stations for the sediment environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of sediment under the Sample Type code SE.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year are described in Section 5.

Table 3.6-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Sediment (SE) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)	Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7 (10) (0)		7.1E 0 (-1.8 - 3.5)E 2 (0/ 6)	52	1.2E 2 (1.1 - 1.3)E 2 (0/ 2)	1.2E 2 (4.6 - 17.1)E 1 (0/ 4)
K-40 (10) (0)		1.4E 4 (0.0 - 2.1)E 4 (5/ 6)	07	2.0E 4 (1.9 - 2.1)E 4 (2/ 2)	1.5E 4 (1.2 - 2.4)E 4 (4/ 4)
Cr-51 (10) (0)		-1.4E 1 (-1.9 - 1.6)E 2 (0/ 6)	08	8.9E 1 (1.7 - 16.0)E 1 (0/ 2)	-7.9E 1 (-1.4 - 0.2)E 2 (0/ 4)
Mn-54 (10) (0)		1.3E 1 (-4.9 - 25.0)E 0 (0/ 6)	02	2.3E 1 (2.1 - 2.5)E 1 (0/ 2)	-1.6E 1 (-4.1 - -0.1)E 1 (0/ 4)
Co-57 (10) (0)		-2.6E 0 (-1.1 - 1.1)E 1 (0/ 6)	02	3.5E 0 (-3.6 - 10.5)E 0 (0/ 2)	-8.3E -1 (-9.3 - 8.7)E 0 (0/ 4)
Co-58 (10) (0)		-1.7E 0 (-1.7 - 1.8)E 1 (0/ 6)	52	1.3E 1 (9.4 - 15.8)E 0 (0/ 2)	5.6E 0 (-5.0 - 15.8)E 0 (0/ 4)
Fe-59 (10) (0)		6.7E 0 (-4.3 - 4.7)E 1 (0/ 6)	57	2.1E 1 (7.8 - 406.0)E -1 (0/ 2)	1.8E 1 (7.8 - 406.0)E -1 (0/ 4)
Co-60 (10) (0)		-7.5E 0 (-1.7 - 0.1)E 1 (0/ 6)	52	2.9E 1 (1.3 - 4.6)E 1 (0/ 2)	4.3E 0 (-2.8 - 4.6)E 1 (0/ 4)
Zn-65 (10) (0)		2.0E 0 (-2.4 - 2.1)E 1 (0/ 6)	52	2.1E 1 (2.1 - 40.3)E 0 (0/ 2)	-5.5E 0 (-4.5 - 4.0)E 1 (0/ 4)
Se-75 (10) (0)		8.7E 0 (3.9 - 15.8)E 0 (0/ 6)	08	1.1E 1 (5.4 - 15.8)E 0 (0/ 2)	6.0E 0 (-2.4 - 12.6)E 0 (0/ 4)
Nb-95 (10) (0)		1.2E 1 (-9.5 - 30.8)E 0 (0/ 6)	02	1.9E 1 (1.9 - 2.0)E 1 (0/ 2)	-1.6E 1 (-2.8 - -0.2)E 1 (0/ 4)
Zr-95 (10) (0)		4.9E 0 (-8.0 - 3.9)E 1 (0/ 6)	52	6.9E 1 (6.8 - 7.1)E 1 (0/ 2)	5.2E 1 (1.1 - 7.1)E 1 (0/ 4)
Ru-103 (10) (0)		-6.3E 0 (-2.3 - 1.5)E 1 (0/ 6)	08	-4.6E -1 (-4.3 - 3.4)E 0 (0/ 2)	-9.5E 0 (-1.8 - 0.9)E 1 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.6-1 (Continued)

Radiological Environmental Monitoring Program Summary

Seabrook Nuclear Power Station, Seabrook, NH

(January - December 2021)

MEDIUM: Sediment (SE) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	 Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	**(10)**		-2.5E 1	07	7.5E 1	-1.0E 2
	(0)		(-2.9 - 0.9)E 2 (0/ 6)		(5.9 - 9.0)E 1 (0/ 2)	(-3.0 - 0.6)E 2 (0/ 4)
Ag-108m	**(10)**		3.6E 0	08	6.3E 0	-7.7E 0
	(0)		(-8.4 - 20.9)E 0 (0/ 6)		(-8.4 - 20.9)E 0 (0/ 2)	(-2.2 - 0.2)E 1 (0/ 4)
Ag-110m	**(10)**		3.1E 0	08	3.7E 1	-7.3E 0
	(0)		(-5.2 - 4.7)E 1 (0/ 6)		(2.8 - 4.7)E 1 (0/ 2)	(-1.6 - 0.2)E 1 (0/ 4)
Sb-124	**(10)**		6.6E 0	02	4.9E 1	1.2E 1
	(0)		(-4.1 - 7.6)E 1 (0/ 6)		(2.1 - 7.6)E 1 (0/ 2)	(-1.8 - 3.6)E 1 (0/ 4)
Sb-125	**(10)**		1.9E 1	02	4.0E 1	-3.0E 0
	(0)		(-7.4 - 45.9)E 0 (0/ 6)		(3.4 - 4.6)E 1 (0/ 2)	(-1.6 - 1.2)E 1 (0/ 4)
I-131	**(10)**		6.1E 0	57	1.7E 1	2.8E 0
	(0)		(-3.2 - 3.1)E 1 (0/ 6)		(5.3 - 326.0)E -1 (0/ 2)	(-2.1 - 3.3)E 1 (0/ 4)
Cs-134	**(10)**	150	2.9E 1	02	4.5E 1	2.0E 1
	(0)		(2.9 - 47.3)E 0 (0/ 6)		(4.2 - 4.7)E 1 (0/ 2)	(0.0 - 3.6)E 1 (0/ 4)
Cs-137	**(10)**	180	1.4E 1	02	1.9E 1	-6.4E 0
	(0)		(7.5 - 319.0)E -1 (0/ 6)		(6.4 - 31.9)E 0 (0/ 2)	(-2.1 - 1.5)E 1 (0/ 4)
Ba-140	**(10)**		2.7E 1	52	1.0E 2	4.3E 1
	(0)		(-3.7 - 16.1)E 1 (0/ 6)		(8.8 - 11.4)E 1 (0/ 2)	(-1.2 - 1.1)E 2 (0/ 4)
La-140	**(10)**		-5.8E 0	52	4.6E 1	1.9E 1
	(0)		(-3.1 - 2.6)E 1 (0/ 6)		(9.8 - 81.6)E 0 (0/ 2)	(-1.1 - 8.2)E 1 (0/ 4)
Ce-141	**(10)**		-9.6E 0	57	-5.4E 0	-8.2E 0
	(0)		(-2.6 - 1.2)E 1 (0/ 6)		(-1.2 - 0.1)E 1 (0/ 2)	(-1.4 - 0.1)E 1 (0/ 4)
Ce-144	**(10)**		-1.6E 1	07	5.6E 1	7.5E -1
	(0)		(-2.0 - 0.8)E 2 (0/ 6)		(3.3 - 7.9)E 1 (0/ 2)	(-4.2 - 2.4)E 1 (0/ 4)
Tl-208	**(10)**		1.6E 2	52	4.1E 2	2.5E 2
	(0)		(9.3 - 38.2)E 1 (6/ 6)		(2.8 - 5.4)E 2 (2/ 2)	(9.1 - 53.8)E 1 (4/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.

** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.6-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Sediment (SE) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Pb-212	**(10)**		5.9E 2	52	1.5E 3	9.4E 2
	(0)		(2.8 - 13.8)E 2 (6/ 6)		(1.2 - 1.7)E 3 (2/ 2)	(3.3 - 17.4)E 2 (4/ 4)
Pb-214	**(10)**		4.2E 2	52	1.1E 3	6.9E 2
	(0)		(0.0 - 1.1)E 3 (5/ 6)		(9.3 - 12.9)E 2 (2/ 2)	(2.1 - 12.9)E 2 (4/ 4)
Bi-214	**(10)**		3.2E 2	52	9.4E 2	6.1E 2
	(0)		(0.0 - 1.2)E 3 (4/ 6)		(7.7 - 11.0)E 2 (2/ 2)	(2.7 - 11.0)E 2 (4/ 4)
Ra-226	**(10)**		3.2E 2	52	9.4E 2	6.1E 2
	(0)		(0.0 - 1.2)E 3 (4/ 6)		(7.7 - 11.0)E 2 (2/ 2)	(2.7 - 11.0)E 2 (4/ 4)
Ac-228	**(10)**		4.6E 2	52	1.3E 3	7.7E 2
	(0)		(0.0 - 1.5)E 3 (4/ 6)		(9.4 - 16.7)E 2 (2/ 2)	(0.0 - 1.7)E 3 (3/ 4)
Th-228	**(10)**		5.9E 2	52	1.5E 3	9.4E 2
	(0)		(2.8 - 13.8)E 2 (6/ 6)		(1.2 - 1.7)E 3 (2/ 2)	(3.3 - 17.4)E 2 (4/ 4)
Th-230	**(10)**		3.2E 2	52	9.4E 2	6.1E 2
	(0)		(0.0 - 1.2)E 3 (4/ 6)		(7.7 - 11.0)E 2 (2/ 2)	(2.7 - 11.0)E 2 (4/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.7 Fish

Semiannual fish (FH) and invertebrate samples are required by the ODCM REMP from two locations. Quarterly collections are attempted to ensure the sampling requirements are met. This section presents the results for fish sampling only. Invertebrate results may be found in Sections 3.8 and 3.9, entitled Lobsters and Shellfish, respectively.

During the year, a total of 9 fish samples were collected. The fish species available from Station FH-03 (indicator station) and Station FH-53 (control station) were dominated by Winter Flounder which are bottom dwelling species. One sample each of Cunner, Silver Hake, and Smelt were also collected from sample location FH-03 (Hampton Bay in the area of the plant's discharge). One sample of Cod fish was collected from sample location FH-53 (control station).

A gamma analysis was performed on the edible portion of each sample collected. In 2021, the only radionuclides detected were naturally-occurring K-40 (8 of 9 samples). Table 3.7-1 summarizes the results for radionuclides in fish. Similar to past years, no plant-related radionuclides were detected in any samples. As a result, no increasing or decreasing trends were observed. Subsequently, there is no dose to the public or impact to the environment through this pathway due to plant operations. This is consistent with previous years of plant operations, as well as the pre-operational program.

In addition to the required program for fish as defined in the ODCM, sampling was attempted to collect a local fish species (Cunner fish) that resides in the upper regions of the water column using an alternate collection method from that used for the more prevalent bottom species (Flounder). For 2021, one Cunner sample was collected from Hampton Bay. The results are listed in Attachment 1 as laboratory number 545141003 (05/17/2021). No plant radionuclides were detected in the Cunner fish sample, with only naturally-occurring K-40 being found.

The REMP Summary Table 3.7-1 also lists the range of analysis results by radionuclide for Indicator and Control Stations for all fish environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of fish under the Sample Type code FH.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year are described in Section 5.

Table 3.7-1

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Fish (FH) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	(9)		-1.7E 1	53	-1.2E 1	-1.2E 1
	(0)		(-5.8 - 0.2)E 1 (0/ 5)		(-3.6 - 2.5)E 1 (0/ 4)	(-3.6 - 2.5)E 1 (0/ 4)
K-40	(9)		2.6E 3	53	3.5E 3	3.5E 3
	(0)		(0.0 - 4.0)E 3 (4/ 5)		(3.4 - 3.6)E 3 (4/ 4)	(3.4 - 3.6)E 3 (4/ 4)
Cr-51	(9)		-2.2E 1	53	-5.3E 0	-5.3E 0
	(0)		(-1.2 - 0.3)E 2 (0/ 5)		(-1.8 - 1.2)E 1 (0/ 4)	(-1.8 - 1.2)E 1 (0/ 4)
Mn-54	(9)	130	-9.9E -1	53	-6.4E -1	-6.4E -1
	(0)		(-5.6 - 5.5)E 0 (0/ 5)		(-5.0 - 1.2)E 0 (0/ 4)	(-5.0 - 1.2)E 0 (0/ 4)
Co-57	(9)		7.9E -1	03	7.9E -1	2.0E -1
	(0)		(-4.8 - 4.3)E 0 (0/ 5)		(-4.8 - 4.3)E 0 (0/ 5)	(-2.1 - 2.3)E 0 (0/ 4)
Co-58	(9)	130	-7.1E 0	53	-7.5E -1	-7.5E -1
	(0)		(-3.1 - 0.0)E 1 (0/ 5)		(-2.5 - 0.2)E 0 (0/ 4)	(-2.5 - 0.2)E 0 (0/ 4)
Fe-59	(9)	260	-3.6E 0	53	7.4E 0	7.4E 0
	(0)		(-6.8 - 1.0)E 0 (0/ 5)		(3.9 - 11.8)E 0 (0/ 4)	(3.9 - 11.8)E 0 (0/ 4)
Co-60	(9)	130	3.2E 0	03	3.2E 0	4.2E -3
	(0)		(-1.4 - 11.7)E 0 (0/ 5)		(-1.4 - 11.7)E 0 (0/ 5)	(-7.8 - 10.6)E -1 (0/ 4)
Zn-65	(9)	260	-2.4E 0	53	3.2E -1	3.2E -1
	(0)		(-1.0 - 1.6)E 1 (0/ 5)		(-2.7 - 5.0)E 0 (0/ 4)	(-2.7 - 5.0)E 0 (0/ 4)
Se-75	(9)		-4.0E -1	03	-4.0E -1	-7.5E -1
	(0)		(-2.2 - 2.2)E 0 (0/ 5)		(-2.2 - 2.2)E 0 (0/ 5)	(-2.1 - 0.0)E 0 (0/ 4)
Nb-95	(9)		5.7E 0	03	5.7E 0	-2.0E 0
	(0)		(-6.2 - 30.7)E 0 (0/ 5)		(-6.2 - 30.7)E 0 (0/ 5)	(-9.8 - 2.6)E 0 (0/ 4)
Zr-95	(9)		7.4E -1	53	2.7E 0	2.7E 0
	(0)		(-2.1 - 2.9)E 1 (0/ 5)		(2.0 - 4.4)E 0 (0/ 4)	(2.0 - 4.4)E 0 (0/ 4)
Ru-103	(9)		4.6E 0	03	4.6E 0	1.8E 0
	(0)		(-5.3 - 206.0)E -1 (0/ 5)		(-5.3 - 206.0)E -1 (0/ 5)	(6.6 - 29.6)E -1 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.7-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Fish (FH) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	(9)		5.0E 1	03	5.0E 1	-3.8E 0
	(0)		(-1.7 - 13.5)E 1 (0/ 5)		(-1.7 - 13.5)E 1 (0/ 5)	(-2.2 - 1.2)E 1 (0/ 4)
Ag-108m	(9)		1.7E 0	53	2.1E 0	2.1E 0
	(0)		(-2.3 - 48.6)E -1 (0/ 5)		(6.8 - 47.4)E -1 (0/ 4)	(6.8 - 47.4)E -1 (0/ 4)
Ag-110m	(9)		-3.2E 0	53	-1.8E -2	-1.8E -2
	(0)		(-1.5 - 1.0)E 1 (0/ 5)		(-3.0 - 3.1)E 0 (0/ 4)	(-3.0 - 3.1)E 0 (0/ 4)
Sb-124	(9)		2.8E 0	03	2.8E 0	-4.0E 0
	(0)		(-2.2 - 18.0)E 0 (0/ 5)		(-2.2 - 18.0)E 0 (0/ 5)	(-1.2 - 0.3)E 1 (0/ 4)
Sb-125	(9)		-2.0E 0	53	1.6E 0	1.6E 0
	(0)		(-2.3 - 1.2)E 1 (0/ 5)		(-4.1 - 27.8)E -1 (0/ 4)	(-4.1 - 27.8)E -1 (0/ 4)
I-131	(9)		-9.8E 0	03	-9.8E 0	-1.5E 1
	(0)		(-7.8 - 2.9)E 1 (0/ 5)		(-7.8 - 2.9)E 1 (0/ 5)	(-7.0 - 1.4)E 1 (0/ 4)
Cs-134	(9)	130	-6.1E -1	53	8.9E -1	8.9E -1
	(0)		(-3.3 - 3.3)E 0 (0/ 5)		(-1.4 - 3.1)E 0 (0/ 4)	(-1.4 - 3.1)E 0 (0/ 4)
Cs-137	(9)	150	2.5E 0	03	2.5E 0	-1.1E 0
	(0)		(0.0 - 6.4)E 0 (0/ 5)		(0.0 - 6.4)E 0 (0/ 5)	(-2.4 - 0.6)E 0 (0/ 4)
Ba-140	(9)		1.6E 1	03	1.6E 1	-8.4E 0
	(0)		(-8.2 - 9.8)E 1 (0/ 5)		(-8.2 - 9.8)E 1 (0/ 5)	(-1.8 - 0.6)E 1 (0/ 4)
La-140	(9)		-1.3E 1	53	3.9E 0	3.9E 0
	(0)		(-3.2 - 0.1)E 1 (0/ 5)		(-1.8 - 123.0)E -1 (0/ 4)	(-1.8 - 123.0)E -1 (0/ 4)
Ce-141	(9)		-7.7E 0	53	-4.0E 0	-4.0E 0
	(0)		(-3.2 - 0.3)E 1 (0/ 5)		(-7.4 - -0.6)E 0 (0/ 4)	(-7.4 - -0.6)E 0 (0/ 4)
Ce-144	(9)		1.1E 1	03	1.1E 1	3.1E 0
	(0)		(-4.5 - 8.7)E 1 (0/ 5)		(-4.5 - 8.7)E 1 (0/ 5)	(-1.1 - 1.8)E 1 (0/ 4)
Tl-208	(9)		1.0E -1	03	1.0E -1	-5.3E -1
	(0)		(-2.1 - 4.9)E 0 (0/ 5)		(-2.1 - 4.9)E 0 (0/ 5)	(-3.3 - 1.4)E 0 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.7-1 (Continued)

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Fish (FH) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Pb-212	**(9)**		1.4E 1	03	1.4E 1	2.7E 0
	(0)		(0.0 - 4.0)E 1 (0/ 5)		(0.0 - 4.0)E 1 (0/ 5)	(-2.6 - 7.1)E 0 (0/ 4)
Pb-214	**(9)**		-1.8E 1	53	-8.0E -1	-8.0E -1
	(0)		(-5.6 - 0.6)E 1 (0/ 5)		(-5.1 - 4.4)E 0 (0/ 4)	(-5.1 - 4.4)E 0 (0/ 4)
Bi-214	**(9)**		2.8E -1	53	4.9E 0	4.9E 0
	(0)		(-3.0 - 1.8)E 1 (0/ 5)		(-4.4 - 13.3)E 0 (0/ 4)	(-4.4 - 13.3)E 0 (0/ 4)
Ra-226	**(9)**		2.8E -1	53	4.9E 0	4.9E 0
	(0)		(-3.0 - 1.8)E 1 (0/ 5)		(-4.4 - 13.3)E 0 (0/ 4)	(-4.4 - 13.3)E 0 (0/ 4)
Ac-228	**(9)**		-2.5E 1	53	-1.5E 0	-1.5E 0
	(0)		(-1.5 - 0.3)E 2 (0/ 5)		(-8.3 - 2.4)E 0 (0/ 4)	(-8.3 - 2.4)E 0 (0/ 4)
Th-228	**(9)**		1.4E 1	03	1.4E 1	2.7E 0
	(0)		(0.0 - 4.0)E 1 (0/ 5)		(0.0 - 4.0)E 1 (0/ 5)	(-2.6 - 7.1)E 0 (0/ 4)
Th-230	**(9)**		2.8E -1	53	4.9E 0	4.9E 0
	(0)		(-3.0 - 1.8)E 1 (0/ 5)		(-4.4 - 13.3)E 0 (0/ 4)	(-4.4 - 13.3)E 0 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.8 Lobsters

Semiannual fish and invertebrate samples were required from two locations. This section provides the results for one type of invertebrate – *Homarus americanus (*American lobsters) which is an important commercial food species from local waters. Lobsters (HA) were collected from an indicator location near the discharge (HA-04) and from a control location (HA-54) within Ipswich Bay. A total of four samples were collected for the year. Fish and shellfish results may be found in Sections 3.7 and 3.9, respectively.

A gamma analysis was performed on each sample. The only radionuclide detected in lobster samples in 2021 was naturally-occurring K-40 (all samples). Similar to past years, no plant-related radionuclides were detected in any sample. Therefore, no increasing or decreasing trends were observed. Consequently, there is no dose to the public or impact to the environment from this pathway due to plant operations. This is consistent with previous years as well as the pre-operational program.

The REMP Summary Table 3.8-1 also lists the range of analysis results by radionuclide for Indicator and Control Stations for all lobster samples. Attachment 1 to this report lists the individual analysis results for each measurement of lobsters under the Sample Type code HA.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year are described in Section 5.

Table 3.8-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: American Lobster (HA) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	(4)		9.2E 0	04	1.1E 1	9.2E 0
	(0)		(-6.9 - 29.8)E 0 (0/ 3)		(-6.9 - 29.8)E 0 (0/ 2)	(0/ 1)
K-40	(4)		2.5E 3	04	2.5E 3	2.5E 3
	(0)		(2.3 - 2.7)E 3 (3/ 3)		(2.3 - 2.7)E 3 (2/ 2)	(1/ 1)
Cr-51	(4)		2.3E 1	04	2.9E 1	-2.6E 1
	(0)		(1.1 - 3.2)E 1 (0/ 3)		(2.5 - 3.2)E 1 (0/ 2)	(0/ 1)
Mn-54	(4)	130	-1.9E 0	54	-7.2E -1	-7.2E -1
	(0)		(-4.4 - 0.1)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Co-57	(4)		1.4E 0	04	1.6E 0	1.1E -1
	(0)		(1.2 - 1.8)E 0 (0/ 3)		(1.3 - 1.8)E 0 (0/ 2)	(0/ 1)
Co-58	(4)	130	-1.2E 0	04	-1.2E 0	-1.5E 0
	(0)		(-2.4 - 0.1)E 0 (0/ 3)		(-2.4 - 0.1)E 0 (0/ 2)	(0/ 1)
Fe-59	(4)	260	4.0E -1	54	5.7E 0	5.7E 0
	(0)		(-2.9 - 3.0)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Co-60	(4)	130	-6.3E -1	04	8.5E -2	-3.0E 0
	(0)		(-7.2 - 7.4)E 0 (0/ 3)		(-7.2 - 7.4)E 0 (0/ 2)	(0/ 1)
Zn-65	(4)	260	-2.1E 0	54	1.3E 0	1.3E 0
	(0)		(-5.1 - 1.0)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Se-75	(4)		-7.5E -1	54	6.3E -1	6.3E -1
	(0)		(-1.5 - 0.1)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Nb-95	(4)		-1.2E 0	52	2.3E 0	-2.8E 0
	(0)		(-5.2 - 2.3)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Zr-95	(4)		-2.9E 0	04	-2.3E 0	-6.5E 0
	(0)		(-5.5 - 0.9)E 0 (0/ 3)		(-5.5 - 0.9)E 0 (0/ 2)	(0/ 1)
Ru-103	(4)		-9.0E -1	52	1.5E 0	-1.6E -1
	(0)		(-2.6 - 1.5)E 0 (0/ 3)		(0/ 1)	(0/ 1)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.8-1 (Continued)

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: American Lobster (HA) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
Ru-106	(4)		1.9E 1	52	4.6E 1	3.6E 1
	(0)		(5.1 - 46.3)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Ag-108m	(4)		1.4E 0	04	2.0E 0	-1.5E 0
	(0)		(3.5 - 24.7)E -1 (0/ 3)		(1.5 - 2.5)E 0 (0/ 2)	(0/ 1)
Ag-110m	(4)		-1.6E 0	54	1.5E 0	1.5E 0
	(0)		(-2.7 - 0.3)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Sb-124	(4)		-3.3E -1	04	4.9E -1	-5.4E 0
	(0)		(-2.0 - 1.9)E 0 (0/ 3)		(-9.3 - 19.2)E -1 (0/ 2)	(0/ 1)
Sb-125	(4)		-8.6E -1	04	-7.4E -1	-9.2E -1
	(0)		(-6.0 - 4.5)E 0 (0/ 3)		(-6.0 - 4.5)E 0 (0/ 2)	(0/ 1)
I-131	(4)		-3.5E 0	52	1.6E 1	-2.3E 0
	(0)		(-2.5 - 1.6)E 1 (0/ 3)		(0/ 1)	(0/ 1)
Cs-134	(4)	130	2.2E 0	52	2.3E 0	-3.9E 0
	(0)		(1.2 - 3.2)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Cs-137	(4)	150	-5.2E -2	54	2.8E 0	2.8E 0
	(0)		(-2.4 - 2.3)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Ba-140	(4)		-1.7E 1	52	1.1E 1	-1.4E 1
	(0)		(-6.0 - 1.1)E 1 (0/ 3)		(0/ 1)	(0/ 1)
La-140	(4)		6.2E -1	52	5.2E 0	1.1E 0
	(0)		(-2.7 - 5.2)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Ce-141	(4)		-9.6E -1	52	5.6E -1	-2.6E 0
	(0)		(-4.7 - 1.2)E 0 (0/ 3)		(0/ 1)	(0/ 1)
Ce-144	(4)		-1.2E 1	52	2.3E 0	-3.2E 0
	(0)		(-4.1 - 0.2)E 1 (0/ 3)		(0/ 1)	(0/ 1)
Tl-208	(4)		6.3E -1	04	9.4E -1	-1.7E 0
	(0)		(-3.2 - 5.1)E 0 (0/ 3)		(-3.2 - 5.1)E 0 (0/ 2)	(0/ 1)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.8-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: American Lobster (HA) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Pb-212	**(4)**		6.7E 0	04	7.0E 0	1.1E 0
	(0)		(6.0 - 7.5)E 0 (0/ 3)		(6.5 - 7.5)E 0 (0/ 2)	(0/ 1)
Pb-214	**(4)**		5.9E 0	04	7.8E 0	0.0E 0
	(0)		(0.0 - 1.6)E 1 (0/ 3)		(0.0 - 1.6)E 1 (0/ 2)	(0/ 1)
Bi-214	**(4)**		1.3E 1	04	1.3E 1	-3.3E -1
	(0)		(1.9 - 258.0)E -1 (0/ 3)		(1.9 - 258.0)E -1 (0/ 2)	(0/ 1)
Ra-226	**(4)**		1.3E 1	04	1.3E 1	-3.3E -1
	(0)		(1.9 - 258.0)E -1 (0/ 3)		(1.9 - 258.0)E -1 (0/ 2)	(0/ 1)
Ac-228	**(4)**		2.7E -1	04	6.0E 0	-1.1E 1
	(0)		(-1.1 - 1.6)E 1 (0/ 3)		(-4.1 - 16.1)E 0 (0/ 2)	(0/ 1)
Th-228	**(4)**		6.7E 0	04	7.0E 0	1.1E 0
	(0)		(6.0 - 7.5)E 0 (0/ 3)		(6.5 - 7.5)E 0 (0/ 2)	(0/ 1)
Th-230	**(4)**		1.3E 1	04	1.3E 1	-3.3E -1
	(0)		(1.9 - 258.0)E -1 (0/ 3)		(1.9 - 258.0)E -1 (0/ 2)	(0/ 1)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.9 Shellfish

Semiannual fish and invertebrate samples are required by the ODCM from two locations. This section provides the results for shellfish (MU) samples only. In 2021, four locations (two indicators and two controls) were included in the sample collections. Fish and lobster results may be found in the Sections 3.7 and 3.8, entitled Fish and Lobsters, respectively.

During the year there were two species of mussels (MU) harvested for analysis. *Modiolus (horse mussels)* was collected by divers from near the discharge outfall (indicator station MU-06) and from Ipswich Bay (control MU-56). *Mytilus* (blue mussels) were collected from the intertidal areas of Hampton Harbor (indicator MU-09) and Plum Island (control MU-59). A total of eight samples were collected in 2021 and analyzed for radioactivity in the edible portion or meat of the shellfish.

The only radionuclides detected in edible shellfish body samples in 2021 were naturally-occurring K-40 (all 8 samples), Be-7 (one of 8 samples), Pb-212 (one of 8 samples), Bi-214 (two of 8 samples), Ac-228 (one of 8 samples), Ra-226 (two of 8 samples), Th-228 (one of 8 samples), and Th-230 (two of 8 samples). Similar to past years, no plant-related gamma emitting radionuclides were detected in any sample. Therefore, no increasing or decreasing trends were observed. Consequently, there is no dose to the public or impact to the environment from this pathway due to plant operations. This is consistent with the pre-operational program and with previous years of plant operations.

Additional analyses were conducted on the May and November shellfish collections from both indicator (MS-06) and control (MS-56) locations. Mussel shells (MS) were analyzed for Strontium 89 and 90 (four samples) to see if there was any indication of strontium uptake into the shell. For 2021, no Sr-89/90 was detected in any sample. No shell analyses are required by the REMP as defined in the ODCM.

The REMP Summary Table 3.9-1 (mussel bodies) and Table 3.9-2 (mussel shells) list the range of analysis results by radionuclide for Indicator and Control Stations for all shellfish samples. Attachment 1 to this report lists the individual analysis results for each measurement of shellfish under the Sample Type code MU for the edible portions and MS for shells only.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year, are described in Section 5.

Table 3.9-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Mussel Body (MU) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	(8)		3.3E 1	06	3.6E 1	1.2E 1
	(0)		(0.0 - 6.2)E 1 (1/ 4)		(3.3 - 3.8)E 1 (0/ 2)	(0.0 - 3.8)E 1 (0/ 4)
K-40	(8)		1.3E 3	09	1.5E 3	1.3E 3
	(0)		(8.8 - 17.1)E 2 (4/ 4)		(1.3 - 1.7)E 3 (2/ 2)	(9.8 - 17.6)E 2 (4/ 4)
Cr-51	(8)		-7.3E 0	56	1.8E 1	-9.0E -1
	(0)		(-2.9 - 1.4)E 1 (0/ 4)		(-1.5 - 5.2)E 1 (0/ 2)	(-2.8 - 5.2)E 1 (0/ 4)
Mn-54	(8)	130	-5.1E -1	56	4.8E 0	3.8E 0
	(0)		(-1.9 - 1.0)E 0 (0/ 4)		(-5.1 - 102.0)E -1 (0/ 2)	(-5.1 - 102.0)E -1 (0/ 4)
Co-57	(8)		8.8E -1	09	1.4E 0	-5.9E -2
	(0)		(-6.5 - 21.5)E -1 (0/ 4)		(6.3 - 21.5)E -1 (0/ 2)	(-1.1 - 1.0)E 0 (0/ 4)
Co-58	(8)	130	-3.3E -1	56	1.1E 0	5.1E -1
	(0)		(-1.1 - 0.6)E 0 (0/ 4)		(3.0 - 18.0)E -1 (0/ 2)	(-1.2 - 1.8)E 0 (0/ 4)
Fe-59	(8)	260	4.1E -1	56	4.5E 0	1.8E 0
	(0)		(-5.6 - 4.3)E 0 (0/ 4)		(2.3 - 6.7)E 0 (0/ 2)	(-7.5 - 6.7)E 0 (0/ 4)
Co-60	(8)	130	-4.5E -1	56	1.1E 0	2.3E -1
	(0)		(-2.9 - 2.7)E 0 (0/ 4)		(1.7 - 20.0)E -1 (0/ 2)	(-1.4 - 2.0)E 0 (0/ 4)
Zn-65	(8)	260	-7.3E 0	56	1.1E 0	-4.1E 0
	(0)		(-3.1 - 0.7)E 1 (0/ 4)		(-2.8 - 5.1)E 0 (0/ 2)	(-1.9 - 0.5)E 1 (0/ 4)
Se-75	(8)		-7.2E -1	59	2.1E 0	1.0E 0
	(0)		(-3.1 - 1.5)E 0 (0/ 4)		(1.1 - 3.2)E 0 (0/ 2)	(-1.1 - 3.2)E 0 (0/ 4)
Nb-95	(8)		-1.3E 0	56	1.1E 0	1.7E -1
	(0)		(-2.5 - 0.0)E 0 (0/ 4)		(-2.9 - 25.4)E -1 (0/ 2)	(-3.1 - 2.5)E 0 (0/ 4)
Zr-95	(8)		-1.9E -1	56	2.0E 0	3.5E -1
	(0)		(-2.6 - 3.5)E 0 (0/ 4)		(1.6 - 2.3)E 0 (0/ 2)	(-3.6 - 2.3)E 0 (0/ 4)
Ru-103	(8)		1.7E -1	09	1.1E 0	-1.8E 0
	(0)		(-2.4 - 1.2)E 0 (0/ 4)		(1.0 - 1.2)E 0 (0/ 2)	(-4.1 - 1.6)E 0 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.9-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Mussel Body (MU) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	**(8)**		-2.5E 1	56	7.4E 0	2.4E 0
	(0)		(-7.8 - 0.7)E 1 (0/ 4)		(4.8 - 9.9)E 0 (0/ 2)	(-9.6 - 9.9)E 0 (0/ 4)
Ag-108m	**(8)**		4.1E 0	06	6.9E 0	3.1E -1
	(0)		(-5.1 - 120.0)E -1 (0/ 4)		(1.7 - 12.0)E 0 (0/ 2)	(-1.4 - 1.9)E 0 (0/ 4)
Ag-110m	**(8)**		-2.5E 0	59	2.3E 0	9.7E -1
	(0)		(-7.7 - -0.5)E 0 (0/ 4)		(1.2 - 3.4)E 0 (0/ 2)	(-8.5 - 34.0)E -1 (0/ 4)
Sb-124	**(8)**		-1.1E 0	56	2.4E 0	5.7E -1
	(0)		(-9.0 - 2.7)E 0 (0/ 4)		(-4.2 - 9.1)E 0 (0/ 2)	(-4.2 - 9.1)E 0 (0/ 4)
Sb-125	**(8)**		1.6E 0	06	5.1E 0	-5.1E 0
	(0)		(-9.2 - 9.0)E 0 (0/ 4)		(1.3 - 9.0)E 0 (0/ 2)	(-1.7 - 0.0)E 1 (0/ 4)
I-131	**(8)**		-3.6E 0	59	2.0E 0	-3.7E -1
	(0)		(-1.2 - 0.6)E 1 (0/ 4)		(-2.1 - 4100.0)E -3 (0/ 2)	(-5.3 - 4.1)E 0 (0/ 4)
Cs-134	**(8)**	130	4.0E -1	06	1.9E 0	-2.1E -1
	(0)		(-5.4 - 3.3)E 0 (0/ 4)		(1.1 - 2.7)E 0 (0/ 2)	(-4.0 - 2.1)E 0 (0/ 4)
Cs-137	**(8)**	150	-1.8E 0	59	1.3E 0	4.1E -1
	(0)		(-4.2 - 0.1)E 0 (0/ 4)		(-2.8 - 28.3)E -1 (0/ 2)	(-2.9 - 2.8)E 0 (0/ 4)
Ba-140	**(8)**		2.0E 1	06	2.3E 1	3.3E 0
	(0)		(-1.3 - 4.8)E 1 (0/ 4)		(3.9 - 42.5)E 0 (0/ 2)	(-5.9 - 9.9)E 0 (0/ 4)
La-140	**(8)**		-2.8E 0	59	1.4E 0	-7.9E -1
	(0)		(-6.0 - 3.4)E 0 (0/ 4)		(8.3 - 19.5)E -1 (0/ 2)	(-3.6 - 2.0)E 0 (0/ 4)
Ce-141	**(8)**		-3.7E 0	06	-9.7E -1	-5.5E 0
	(0)		(-8.2 - 3.3)E 0 (0/ 4)		(-5.2 - 3.3)E 0 (0/ 2)	(-8.1 - -2.2)E 0 (0/ 4)
Ce-144	**(8)**		-8.1E 0	56	6.1E 0	9.0E -1
	(0)		(-1.7 - 0.7)E 1 (0/ 4)		(-6.4 - 128.0)E -1 (0/ 2)	(-1.0 - 1.3)E 1 (0/ 4)
Tl-208	**(8)**		1.4E 0	56	2.3E 0	8.3E -1
	(0)		(-2.4 - 5.7)E 0 (0/ 4)		(1.4 - 3.1)E 0 (0/ 2)	(-1.6 - 3.1)E 0 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.9-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Mussel Body (MU) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Pb-212	**(8)**		3.5E 0	56	9.3E 0	6.9E 0
	(0)		(-1.5 - 8.5)E 0 (1/ 4)		(6.9 - 11.8)E 0 (0/ 2)	(3.5 - 11.8)E 0 (0/ 4)
Pb-214	**(8)**		1.1E 1	56	2.0E 1	1.4E 1
	(0)		(1.5 - 20.1)E 0 (0/ 4)		(4.3 - 36.6)E 0 (0/ 2)	(2.4 - 36.6)E 0 (0/ 4)
Bi-214	**(8)**		1.3E 1	06	1.6E 1	9.0E 0
	(0)		(8.9 - 20.7)E 0 (1/ 4)		(1.2 - 2.1)E 1 (0/ 2)	(-6.6 - 28.1)E 0 (1/ 4)
Ra-226	**(8)**		1.3E 1	06	1.6E 1	9.0E 0
	(0)		(8.9 - 20.7)E 0 (1/ 4)		(1.2 - 2.1)E 1 (0/ 2)	(-6.6 - 28.1)E 0 (1/ 4)
Ac-228	**(8)**		1.3E 1	56	3.1E 1	3.0E 1
	(0)		(0.0 - 1.8)E 1 (1/ 4)		(4.1 - 57.3)E 0 (0/ 2)	(4.1 - 57.3)E 0 (0/ 4)
Th-228	**(8)**		3.5E 0	56	9.3E 0	6.9E 0
	(0)		(-1.5 - 8.5)E 0 (1/ 4)		(6.9 - 11.8)E 0 (0/ 2)	(3.5 - 11.8)E 0 (0/ 4)
Th-230	**(8)**		1.3E 1	06	1.6E 1	9.0E 0
	(0)		(8.9 - 20.7)E 0 (1/ 4)		(1.2 - 2.1)E 1 (0/ 2)	(-6.6 - 28.1)E 0 (1/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.9-2
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Mussel Shell (MS) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Sr-89	**(4)**	300	1.3E 1	06	1.3E 1	-1.3E 1
	(0)		(-3.8 - 29.5)E 0 (0/ 2)		(-3.8 - 29.5)E 0 (0/ 2)	(-2.8 - 0.1)E 1 (0/ 2)
Sr-90	**(4)**	300	4.1E 1	06	4.1E 1	2.1E -1
	(0)		(2.0 - 6.1)E 1 (0/ 2)		(2.0 - 6.1)E 1 (0/ 2)	(-2.1 - 2.5)E 0 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.10 Irish Moss

There is no REMP technical requirement defined in the ODCM to collect Irish Moss (algae) samples. As a supplement to the required REMP, semiannual Chondrus (Irish Moss) samples were collected from an indicator area (AL-05) near the plant discharge and a control location (AL-55) within Ipswich Bay. If plant-related radionuclides were re-concentrating in the aquatic environment, an early indication of this might be shown in this type of environmental species. Four routine samples (two indicators and two controls) were collected for the year.

A gamma analysis was performed on each sample. Although not required by Table 5.2-1, the LLDs associated with food products were applied to ensure adequate counting statistics. Naturally-occurring K-40 and Be-7 were detected in both indicator and control samples. For the off-shore indicator station (AL-05), no plant-related radionuclides were detected in any sample. Therefore, no plant-related increasing or decreasing trends were observed. Subsequently, there is no dose or impact to the environment from plant operations. This is consistent with the pre-operational program and previous years of plant operations.

The REMP Summary Table 3.10-1 lists the range of analysis results by radionuclide for Indicator and Control Stations for Irish Moss samples. Attachment 1 lists the individual analysis results for each measurement of Irish moss under the Sample Type code AL.

Any sample collection and analysis deviations from the ODCM defined program, or reportable concentrations that may have occurred during the year, are described in Section 5.

Table 3.10-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Irish Moss (AL) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	(4)		2.2E 2	55	3.6E 2	3.6E 2
	(0)		(2.0 - 2.3)E 2 (2/ 2)		(3.3 - 4.0)E 2 (2/ 2)	(3.3 - 4.0)E 2 (2/ 2)
K-40	(4)		7.1E 3	05	7.1E 3	6.8E 3
	(0)		(6.7 - 7.6)E 3 (2/ 2)		(6.7 - 7.6)E 3 (2/ 2)	(6.2 - 7.4)E 3 (2/ 2)
Cr-51	(4)		-4.2E 0	55	2.0E 1	2.0E 1
	(0)		(-3.6 - 2.8)E 1 (0/ 2)		(-5.1 - 44.2)E 0 (0/ 2)	(-5.1 - 44.2)E 0 (0/ 2)
Mn-54	(4)		7.9E -1	05	7.9E -1	-1.3E 0
	(0)		(-1.0 - 2.6)E 0 (0/ 2)		(-1.0 - 2.6)E 0 (0/ 2)	(-3.9 - 1.4)E 0 (0/ 2)
Co-57	(4)		-1.8E 0	55	1.0E 0	1.0E 0
	(0)		(-2.9 - -0.8)E 0 (0/ 2)		(5.0 - 15.9)E -1 (0/ 2)	(5.0 - 15.9)E -1 (0/ 2)
Co-58	(4)		-2.4E 0	55	6.5E -1	6.5E -1
	(0)		(-5.3 - 0.4)E 0 (0/ 2)		(-2.1 - 15.0)E -1 (0/ 2)	(-2.1 - 15.0)E -1 (0/ 2)
Fe-59	(4)		3.1E 0	55	1.4E 1	1.4E 1
	(0)		(3.1 - 58.6)E -1 (0/ 2)		(1.6 - 26.5)E 0 (0/ 2)	(1.6 - 26.5)E 0 (0/ 2)
Co-60	(4)		-4.5E -2	55	7.6E -1	7.6E -1
	(0)		(-3.0 - 2.9)E 0 (0/ 2)		(-2.3 - 3.8)E 0 (0/ 2)	(-2.3 - 3.8)E 0 (0/ 2)
Zn-65	(4)		1.1E 1	05	1.1E 1	2.4E 0
	(0)		(1.1 - 1.1)E 1 (0/ 2)		(1.1 - 1.1)E 1 (0/ 2)	(8.0 - 39.2)E -1 (0/ 2)
Se-75	(4)		-5.2E 0	55	-3.0E 0	-3.0E 0
	(0)		(-5.6 - -4.9)E 0 (0/ 2)		(-6.9 - 0.8)E 0 (0/ 2)	(-6.9 - 0.8)E 0 (0/ 2)
Nb-95	(4)		-7.7E 0	55	-2.1E 0	-2.1E 0
	(0)		(-1.6 - 0.0)E 1 (0/ 2)		(-2.2 - -2.0)E 0 (0/ 2)	(-2.2 - -2.0)E 0 (0/ 2)
Zr-95	(4)		3.4E 0	05	3.4E 0	-4.0E 0
	(0)		(-2.5 - 9.3)E 0 (0/ 2)		(-2.5 - 9.3)E 0 (0/ 2)	(-4.0 - -4.0)E 0 (0/ 2)
Ru-103	(4)		6.5E -1	05	6.5E -1	-4.0E 0
	(0)		(-2.3 - 3.6)E 0 (0/ 2)		(-2.3 - 3.6)E 0 (0/ 2)	(-5.1 - -3.0)E 0 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.10-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Irish Moss (AL) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	(4)		-4.1E 1	55	2.4E 1	2.4E 1
	(0)		(-5.1 - -3.1)E 1 (0/ 2)		(-2.0 - 6.7)E 1 (0/ 2)	(-2.0 - 6.7)E 1 (0/ 2)
Ag-108m	(4)		-1.8E 0	55	-4.1E -1	-4.1E -1
	(0)		(-3.0 - -0.6)E 0 (0/ 2)		(-6.4 - -1.8)E -1 (0/ 2)	(-6.4 - -1.8)E -1 (0/ 2)
Ag-110m	(4)		-4.6E 0	55	-2.8E 0	-2.8E 0
	(0)		(-8.7 - -0.4)E 0 (0/ 2)		(-6.9 - 1.2)E 0 (0/ 2)	(-6.9 - 1.2)E 0 (0/ 2)
Sb-124	(4)		1.3E 0	05	1.3E 0	-3.6E 0
	(0)		(-1.3 - 3.9)E 0 (0/ 2)		(-1.3 - 3.9)E 0 (0/ 2)	(-8.8 - 1.5)E 0 (0/ 2)
Sb-125	(4)		-4.3E 0	55	3.4E 0	3.4E 0
	(0)		(-1.5 - 0.6)E 1 (0/ 2)		(-1.1 - 1.7)E 1 (0/ 2)	(-1.1 - 1.7)E 1 (0/ 2)
I-131	(4)	60	1.3E 1	05	1.3E 1	2.7E 0
	(0)		(7.8 - 18.2)E 0 (0/ 2)		(7.8 - 18.2)E 0 (0/ 2)	(0.0 - 5.4)E 0 (0/ 2)
Cs-134	(4)	60	1.5E 0	55	3.6E 0	3.6E 0
	(0)		(-4.1 - 34.0)E -1 (0/ 2)		(2.6 - 70.3)E -1 (0/ 2)	(2.6 - 70.3)E -1 (0/ 2)
Cs-137	(4)	80	4.7E 0	05	4.7E 0	1.9E 0
	(0)		(2.9 - 6.5)E 0 (0/ 2)		(2.9 - 6.5)E 0 (0/ 2)	(6.5 - 31.1)E -1 (0/ 2)
Ba-140	(4)		-1.5E 1	55	-5.0E 0	-5.0E 0
	(0)		(-4.5 - 1.5)E 1 (0/ 2)		(-8.4 - -1.7)E 0 (0/ 2)	(-8.4 - -1.7)E 0 (0/ 2)
La-140	(4)		-8.4E 0	55	5.5E 0	5.5E 0
	(0)		(-1.5 - -0.2)E 1 (0/ 2)		(4.1 - 6.9)E 0 (0/ 2)	(4.1 - 6.9)E 0 (0/ 2)
Ce-141	(4)		-3.6E 0	55	9.9E 0	9.9E 0
	(0)		(-8.2 - 1.1)E 0 (0/ 2)		(4.4 - 15.4)E 0 (0/ 2)	(4.4 - 15.4)E 0 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.10-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Irish Moss (AL) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	 Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ce-144	**(4)**		-1.4E 1	05	-1.4E 1	-2.9E 1
	(0)		(-2.7 - 0.0)E 1 (0/ 2)		(-2.7 - 0.0)E 1 (0/ 2)	(-3.4 - -2.4)E 1 (0/ 2)
Ac-228	**(4)**		-6.8E 0	55	2.2E 1	2.2E 1
	(0)		(-2.5 - 1.2)E 1 (0/ 2)		(1.3 - 3.1)E 1 (0/ 2)	(1.3 - 3.1)E 1 (0/ 2)
Th-228	**(4)**		3.3E 0	05	3.3E 0	0.0E 0
	(0)		(0.0 - 6.6)E 0 (0/ 2)		(0.0 - 6.6)E 0 (0/ 2)	(0.0 - 0.0)E 0 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.11 Food Crop

There is no requirement for food crop or vegetation samples as long as the required milk locations are available. As noted in Section 3.3, milk sampling at the minimum required number of locations in 2021 was not possible due to the limited inventory of milk animal sites in the plant vicinity. To compensate for this, vegetation samples were collected as part of the REMP. Section 3.12 describes the alternate broad leafy vegetation (TG) collections.

In addition to the broad leafy vegetation sampling, nine food crop (TF) samples were collected from three locations listed on Table 2.0-2 (two indicator stations, TF-02 and TF-03, and one control station, TF-06) during the growing season months (June, July and August). These included strawberries in June (Lab numbers 547919004, 5, & 6), blueberries, waxed beans, and lettuce in July (Lab numbers 549905004, 5, & 6), and blueberries and tomatoes in August (Lab numbers 552744004, 5 and 6).

A gamma analysis was performed on each sample. Naturally-occurring K-40 was detected in all samples for both indicator and control stations and naturally-occurring Be-7 was detected in one sample for the control station. Similar to past years, no plant-related radionuclides were detected in any samples. Therefore, no increasing or decreasing trends are identified. Subsequently, there is no dose to the public or impact on the environment through this pathway due to plant operations. This is consistent with the pre-operational program and with previous years of plant operations.

The following REMP Summary (Table 3.11-1) lists the range of analysis results by radionuclide for indicator and control stations for the Food Crop environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of Food Crops under the Sample Type code TF.

Any sample collection and analysis deviations from the ODCM defined program, or reportable concentrations that may have occurred during the year, are described in Section 5.

Table 3.11-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Food Crop (TF) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	(9)		2.2E 1	06	9.4E 1	9.4E 1
	(0)		(-4.5 - 5.5)E 1 (0/ 6)		(-2.5 - 195.0)E 0 (1/ 3)	(-2.5 - 195.0)E 0 (1/ 3)
K-40	(9)		1.4E 3	06	1.9E 3	1.9E 3
	(0)		(5.8 - 24.2)E 2 (6/ 6)		(7.3 - 30.4)E 2 (3/ 3)	(7.3 - 30.4)E 2 (3/ 3)
Cr-51	(9)		2.3E 0	02	8.5E 0	-2.3E 0
	(0)		(-1.2 - 2.9)E 1 (0/ 6)		(-6.3 - 28.7)E 0 (0/ 3)	(-2.0 - 3.2)E 1 (0/ 3)
Mn-54	(9)		2.3E -2	03	3.5E -1	-3.4E 0
	(0)		(-4.1 - 5.3)E 0 (0/ 6)		(-4.1 - 5.3)E 0 (0/ 3)	(-6.2 - 0.5)E 0 (0/ 3)
Co-57	(9)		3.2E -1	06	1.3E 0	1.3E 0
	(0)		(-1.5 - 1.5)E 0 (0/ 6)		(4.3 - 235.0)E -2 (0/ 3)	(4.3 - 235.0)E -2 (0/ 3)
Co-58	(9)		-2.3E 0	06	7.5E -1	7.5E -1
	(0)		(-8.1 - 0.5)E 0 (0/ 6)		(-1.2 - 3.4)E 0 (0/ 3)	(-1.2 - 3.4)E 0 (0/ 3)
Fe-59	(9)		-2.7E 0	06	4.8E 0	4.8E 0
	(0)		(-1.4 - 0.4)E 1 (0/ 6)		(3.2 - 5.8)E 0 (0/ 3)	(3.2 - 5.8)E 0 (0/ 3)
Co-60	(9)		5.0E -1	06	2.0E 0	2.0E 0
	(0)		(-2.0 - 2.1)E 0 (0/ 6)		(6.5 - 41.2)E -1 (0/ 3)	(6.5 - 41.2)E -1 (0/ 3)
Zn-65	(9)		-2.6E -1	03	-8.3E -2	-7.1E 0
	(0)		(-7.3 - 6.1)E 0 (0/ 6)		(-3.8 - 5.1)E 0 (0/ 3)	(-1.4 - -0.4)E 1 (0/ 3)
Se-75	(9)		-3.8E -1	03	5.4E -1	5.4E -1
	(0)		(-3.6 - 1.5)E 0 (0/ 6)		(-3.8 - 14.9)E -1 (0/ 3)	(-2.3 - 3.8)E 0 (0/ 3)
Nb-95	(9)		4.7E -1	03	1.2E 0	9.5E -1
	(0)		(-1.1 - 5.9)E 0 (0/ 6)		(-1.1 - 5.9)E 0 (0/ 3)	(-1.1 - 3.5)E 0 (0/ 3)
Zr-95	(9)		-1.6E 0	03	4.8E -1	-1.6E 0
	(0)		(-8.3 - 3.8)E 0 (0/ 6)		(-3.7 - 2.9)E 0 (0/ 3)	(-3.4 - 1.9)E 0 (0/ 3)
Ru-103	(9)		-4.4E -1	06	2.5E 0	2.5E 0
	(0)		(-3.8 - 1.8)E 0 (0/ 6)		(5.0 - 51.8)E -1 (0/ 3)	(5.0 - 51.8)E -1 (0/ 3)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.11-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Food Crop (TF) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	(9)		2.7E 0	03	1.6E 1	-9.1E 0
	(0)		(-2.6 - 5.6)E 1 (0/ 6)		(-8.8 - 55.6)E 0 (0/ 3)	(-1.8 - 0.3)E 1 (0/ 3)
Ag-108m	(9)		-4.7E -1	02	1.2E 0	2.2E -1
	(0)		(-3.6 - 4.8)E 0 (0/ 6)		(-7.1 - 48.2)E -1 (0/ 3)	(-2.4 - 3.7)E 0 (0/ 3)
Ag-110m	(9)		-3.6E -1	06	4.2E 0	4.2E 0
	(0)		(-4.0 - 4.9)E 0 (0/ 6)		(6.3 - 83.4)E -1 (0/ 3)	(6.3 - 83.4)E -1 (0/ 3)
Sb-124	(9)		-1.4E 0	06	3.9E 0	3.9E 0
	(0)		(-8.2 - 2.5)E 0 (0/ 6)		(-1.3 - 6.8)E 0 (0/ 3)	(-1.3 - 6.8)E 0 (0/ 3)
Sb-125	(9)		-9.9E -1	06	2.2E 0	2.2E 0
	(0)		(-7.4 - 7.3)E 0 (0/ 6)		(-9.1 - 10.2)E 0 (0/ 3)	(-9.1 - 10.2)E 0 (0/ 3)
I-131	(9)	60	3.3E 0	03	4.8E 0	-3.7E -1
	(0)		(-8.1 - 81.0)E -1 (0/ 6)		(2.1 - 81.0)E -1 (0/ 3)	(-4.9 - 2.1)E 0 (0/ 3)
Cs-134	(9)	60	3.5E 0	06	5.2E 0	5.2E 0
	(0)		(-5.3 - 93.9)E -1 (0/ 6)		(2.7 - 7.9)E 0 (0/ 3)	(2.7 - 7.9)E 0 (0/ 3)
Cs-137	(9)	80	2.2E 0	02	3.3E 0	-8.7E -1
	(0)		(-1.5 - 6.0)E 0 (0/ 6)		(1.5 - 6.0)E 0 (0/ 3)	(-3.8 - 1.5)E 0 (0/ 3)
Ba-140	(9)		7.2E 0	03	1.5E 1	3.9E 0
	(0)		(-5.8 - 26.4)E 0 (0/ 6)		(-5.8 - 26.4)E 0 (0/ 3)	(-1.5 - 2.3)E 1 (0/ 3)
La-140	(9)		-2.5E 0	03	2.5E 0	-3.2E -1
	(0)		(-1.0 - 0.4)E 1 (0/ 6)		(1.6 - 3.5)E 0 (0/ 3)	(-9.0 - 5.0)E 0 (0/ 3)
Ce-141	(9)		-2.1E 0	02	7.7E -1	-3.2E 0
	(0)		(-1.3 - 0.4)E 1 (0/ 6)		(-1.6 - 4.5)E 0 (0/ 3)	(-4.6 - -2.3)E 0 (0/ 3)
Ce-144	(9)		6.6E 0	03	1.2E 1	-1.6E 1
	(0)		(-4.5 - 215.0)E -1 (0/ 6)		(6.4 - 21.5)E 0 (0/ 3)	(-4.2 - -0.1)E 1 (0/ 3)
Ac-228	(9)		5.0E 0	03	1.1E 1	-7.9E 0
	(0)		(-1.6 - 2.9)E 1 (0/ 6)		(-1.6 - 2.9)E 1 (0/ 3)	(-1.2 - 0.0)E 1 (0/ 3)
Th-228	(9)		-7.5E -2	03	3.2E 0	2.7E 0
	(0)		(-8.9 - 6.9)E 0 (0/ 6)		(2.9 - 68.5)E -1 (0/ 3)	(-1.7 - 7.3)E 0 (0/ 3)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.12 Vegetation

In lieu of milk sampling, the ODCM, Table A.9.1-1, requires that broad leafy vegetation (TG) samples grown in the nearest of two different offsite locations with the highest D/Q, and from one control location 15-30 km distant in the least prevalent wind direction, be collected when available (growing season). Offsite locations are defined in the UFSAR as the land beyond a 3000-foot radius of the two Containment Building centerlines. The analysis of garden locations in the Land Use Census provides a ranking of potential sampling sites for use in determining sampling locations in the general population. Since sampling of broad leaf garden vegetables at high D/Q locations is not feasible due to uncertain availability, other types of broad leafy vegetation were utilized.

Two locations at the site boundary with a maximum D/Q (higher values than determined in the 2021 Land Use Census garden listing) were selected over ranked D/Q gardens in the general population. These two Indicator locations (TG-08 and TG-09) are on site property in areas with available sample media. A third far-field control location (TG-10) was selected in Georgetown, MA. Samples consisted of tree leaves, as broad leaf vegetation provides increased reliability for sample availability. For 2021, a total of 15 monthly (growing season) broad leaf vegetation samples were collected and analyzed by gamma spectroscopy.

A gamma analysis was performed on each sample. Naturally-occurring Be-7 and K-40 were detected in all samples for both indicator and control stations. Cesium-137 was not detected in 2021, but has been detected in broad leafy vegetation in the past and evaluated as to the source. The conclusion of the assessment was that world-wide fallout from events un-related to Seabrook operations, such as the March 11, 2011 Fukushima Daiichi accident in Japan and past atmospheric nuclear weapons testing, have led to Cs-137 being deposited on the ground surface in the northeast United States with subsequent root uptake into leaves of long-lived vegetation. This conclusion continues to be supported by the fact that Seabrook Station had no detectable Cs-137 in any gaseous effluents in recent years, including 2021, and by the prevalence of detectable Cs-137 at the control location compared to in-close indicator sampling points. Utilizing the results of broad leaf vegetation sampling for broad leaf food products, it is concluded that there was no dose impact to the public or to the environment through this food ingestion pathway from Seabrook plant operations.

The following REMP Summary (Table 3.12-1) lists the range of analysis results by radionuclide for indicator and control stations for the broad leaf vegetation environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of broad leaf vegetation under the Sample Type code TG.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year, are described in Section 5.

Table 3.12-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Vegetation (TG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)	Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
Be-7 (15)		9.7E 2	10	1.2E 3	1.2E 3
(0)		(3.4 - 22.4)E 2 (10/ 10)		(4.2 - 22.6)E 2 (5/ 5)	(4.2 - 22.6)E 2 (5/ 5)
K-40 (15)		4.4E 3	09	4.4E 3	4.2E 3
(0)		(2.2 - 6.1)E 3 (10/ 10)		(2.4 - 6.1)E 3 (5/ 5)	(2.1 - 6.1)E 3 (5/ 5)
Cr-51 (15)		-2.1E 0	10	6.6E 0	6.6E 0
(0)		(-5.1 - 10.4)E 1 (0/ 10)		(-3.6 - 5.7)E 1 (0/ 5)	(-3.6 - 5.7)E 1 (0/ 5)
Mn-54 (15)		1.1E 0	10	4.7E 0	4.7E 0
(0)		(-3.8 - 7.8)E 0 (0/ 10)		(-4.4 - 25.3)E 0 (0/ 5)	(-4.4 - 25.3)E 0 (0/ 5)
Co-57 (15)		1.3E 0	10	1.9E 0	1.9E 0
(0)		(-5.5 - 7.1)E 0 (0/ 10)		(-4.0 - 14.3)E 0 (0/ 5)	(-4.0 - 14.3)E 0 (0/ 5)
Co-58 (15)		4.0E 0	09	4.9E 0	3.5E 0
(0)		(-7.4 - 20.2)E 0 (0/ 10)		(-7.4 - 20.2)E 0 (0/ 5)	(-2.0 - 9.2)E 0 (0/ 5)
Fe-59 (15)		1.2E -1	09	4.1E 0	-1.5E 1
(0)		(-1.3 - 3.2)E 1 (0/ 10)		(-1.3 - 3.2)E 1 (0/ 5)	(-3.8 - 0.1)E 1 (0/ 5)
Co-60 (15)		2.7E 0	10	3.2E 0	3.2E 0
(0)		(-5.7 - 14.9)E 0 (0/ 10)		(-4.0 - 58.4)E -1 (0/ 5)	(-4.0 - 58.4)E -1 (0/ 5)
Zn-65 (15)		-5.9E -1	10	8.3E 0	8.3E 0
(0)		(-2.2 - 1.5)E 1 (0/ 10)		(-7.5 - 45.8)E 0 (0/ 5)	(-7.5 - 45.8)E 0 (0/ 5)
Se-75 (15)		1.3E 0	10	5.0E 0	5.0E 0
(0)		(-1.4 - 1.2)E 1 (0/ 10)		(-6.3 - 11.9)E 0 (0/ 5)	(-6.3 - 11.9)E 0 (0/ 5)
Nb-95 (15)		-1.3E 0	09	9.3E -1	-5.1E -1
(0)		(-9.0 - 9.0)E 0 (0/ 10)		(-6.7 - 9.0)E 0 (0/ 5)	(-1.2 - 1.4)E 1 (0/ 5)
Zr-95 (15)		1.9E 0	08	6.1E 0	-1.5E -1
(0)		(-1.0 - 1.3)E 1 (0/ 10)		(-1.2 - 13.0)E 0 (0/ 5)	(-6.5 - 10.2)E 0 (0/ 5)
Ru-103 (15)		4.8E -2	08	1.3E 0	-6.8E 0
(0)		(-6.5 - 4.9)E 0 (0/ 10)		(-1.3 - 4.9)E 0 (0/ 5)	(-1.5 - -0.3)E 1 (0/ 5)
Ru-106 (15)		1.2E -1	09	1.0E 1	-5.2E 1
(0)		(-9.9 - 12.4)E 1 (0/ 10)		(-9.9 - 12.4)E 1 (0/ 5)	(-1.4 - 0.0)E 2 (0/ 5)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.12-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2021)

MEDIUM: Vegetation (TG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ag-108m	**(15)**		-3.2E 0	08	-1.2E 0	-1.3E 0
	(0)		(-8.5 - 1.8)E 0 (0/ 10)		(-3.9 - 1.8)E 0 (0/ 5)	(-6.5 - 2.7)E 0 (0/ 5)
Ag-110m	**(15)**		-4.6E -1	10	5.7E -2	5.7E -2
	(0)		(-9.7 - 11.5)E 0 (0/ 10)		(-3.0 - 6.3)E 0 (0/ 5)	(-3.0 - 6.3)E 0 (0/ 5)
Sb-124	**(15)**		4.6E 0	08	6.9E 0	5.3E 0
	(0)		(-8.7 - 24.4)E 0 (0/ 10)		(-6.8 - 24.4)E 0 (0/ 5)	(-1.4 - 2.2)E 1 (0/ 5)
Sb-125	**(15)**		2.6E 0	08	6.7E 0	-2.2E 0
	(0)		(-1.8 - 5.2)E 1 (0/ 10)		(-1.8 - 5.2)E 1 (0/ 5)	(-1.8 - 1.4)E 1 (0/ 5)
I-131	**(15)**	60	-3.8E 0	09	4.5E 0	-2.8E 0
	(0)		(-3.2 - 1.6)E 1 (0/ 10)		(-1.1 - 1.6)E 1 (0/ 5)	(-8.4 - 6.8)E 0 (0/ 5)
Cs-134	**(15)**	60	4.2E 0	09	5.8E 0	-3.5E 0
	(0)		(-8.5 - 24.1)E 0 (0/ 10)		(-5.0 - 13.5)E 0 (0/ 5)	(-1.2 - 0.3)E 1 (0/ 5)
Cs-137	**(15)**	80	1.0E 0	10	5.2E 0	5.2E 0
	(0)		(-1.3 - 2.7)E 1 (0/ 10)		(0.0 - 2.3)E 1 (0/ 5)	(0.0 - 2.3)E 1 (0/ 5)
Ba-140	**(15)**		4.7E 0	09	1.1E 1	7.6E 0
	(0)		(-5.6 - 4.5)E 1 (0/ 10)		(-1.3 - 4.5)E 1 (0/ 5)	(-1.8 - 3.0)E 1 (0/ 5)
La-140	**(15)**		-3.6E 0	10	2.8E 0	2.8E 0
	(0)		(-2.1 - 1.7)E 1 (0/ 10)		(-4.2 - 11.2)E 0 (0/ 5)	(-4.2 - 11.2)E 0 (0/ 5)
Ce-141	**(15)**		-3.7E 0	10	1.5E 0	1.5E 0
	(0)		(-1.9 - 0.7)E 1 (0/ 10)		(-1.5 - 1.2)E 1 (0/ 5)	(-1.5 - 1.2)E 1 (0/ 5)
Ce-144	**(15)**		1.1E 1	08	2.1E 1	-1.5E 1
	(0)		(-2.8 - 6.2)E 1 (0/ 10)		(-1.4 - 6.2)E 1 (0/ 5)	(-5.9 - 1.2)E 1 (0/ 5)
Ac-228	**(15)**		1.8E 1	08	2.2E 1	6.3E 0
	(0)		(-2.1 - 8.2)E 1 (0/ 10)		(-9.7 - 81.7)E 0 (0/ 5)	(-6.1 - 3.9)E 1 (0/ 5)
Th-228	**(15)**		6.2E 0	08	1.6E 1	8.3E 0
	(0)		(-1.6 - 3.6)E 1 (0/ 10)		(8.8 - 363.0)E -1 (0/ 5)	(-2.8 - 2.1)E 1 (0/ 5)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.13 Direct Radiation

Direct gamma radiation exposure was measured with thermoluminescent dosimeters (TLDs). Two TLD badges are placed at each of the designated monitoring stations. Each TLD badge has three $CaSO_4$:Tm elements. The badges were collected and read on a quarterly schedule. A location result is an average of six independent readings per quarter. A total of forty-six stations are located offsite, thirty-seven of which are required by the ODCM.

The exposure rates were normalized to a standard 91-day quarter so that quarterly results from any monitoring location can be compared to another location based on an equivalent time period of exposure. A summary of the 2021 data for the plant operational REMP is shown in Table 3.13-1. Figures 3.6 through 3.14 provide a comparison of quarterly TLD location responses in 2021 and illustrate the naturally variation in exposure rates quarter to quarter. Figures 3.6.1 through 3.14.1 provide a long term trend line for each of the environmental TLD locations.

The exposure rate response at individual monitoring stations have occasionally exhibited step changes at some point in the past that are related to changes in local conditions in the area of the dosimeter measurement. As an example, the outer ring TL-33 (a parking lot located 9.8 km south of the plant) was observed for several quarters during 2011 through 2016 to approach or exceed the normal expected environmental fluctuations based on observed history. The average TLD exposure rate from the 2nd quarter 2011 through the 4th quarter of 2013 is reported as 21.8 mR/quarter. For the seven prior quarters (3rd quarter 2009 to the 1st quarter 2011), the average TLD response was 18.6 mR/quarter, or approximately 17% lower than the most recent trend history. Since no other TLDs in the same sector or closer to the plant showed an average increase in measured response above the expected, the change at TL-33 was attributed to a local change in the background radiation associated with parking lot modifications and not with Seabrook Station operations. Field investigations of TL-33 indicated that the parking lot appeared to be re-graded with new fill/gravel material which could have increased the natural concentration of background radiation that the TLD measures. The expected background exposure level for location TL-33 was re-indexed to 20.6 mR/quarter in 2013 to reflect the observed change in background radiation. Three other locations (TL-01, TL-69 and TL-18) also indicated changes in background exposure rates trends over time (un-related to Seabrook operations) and had their expected background exposure levels re-indexed to 17.4 mR/quarter, 13.7 mR/quarter, and 16.3 mR/quarter respectively, in 2013 (for TL-01 and TL-69) and 2019 (for TL-18).

Overall, the REMP direct radiation program showed no statistically significant indication of increased direct radiation above the variable background measured exposure rate in unrestricted areas. This is demonstrated by the fact that indicator location results (as a group) are statistically the same as control locations. The 2021 annual mean of all indicator locations was 16.8 mR/91-day quarter while the mean of all control locations was 17.7 mR/91-day quarter. This indicates that collectively there is no statistical difference in the annual direct dose as a function of distance from the plant. As a result, no direct radiation dose beyond the site boundary was attributed to station operation during 2021.

Starting in 2015, a supplemental analytical method was implemented to evaluate the TLD measurements. Using the method described in ANSI/HPS N13.37-2014, quarterly and annual baseline dose for each TLD location was determined using appropriate statistical analytical methods considering data from 2004 through 2014. Quarterly and annual dose for 2021 was compared to baseline values to determine if an Investigation Level had been exceeded for evaluation of potential dose to a member of the public. An Investigation Level is considered to be exceeded under the following conditions:

$$\text{Quarterly: If } M_Q > (B_Q + MDD_Q), \text{ then } F_Q = M_Q - B_Q$$

Where:

M_Q is the normalized quarterly field measurement result
B_Q is the quarterly baseline background dose
MDD_Q is the quarterly minimum differential dose and
F_Q is the quarterly facility related dose

Or: Annually: If $M_A > (B_A + MDD_A)$, then $F_A = M_A - B_A$

Where:

M_A is the sum of the four normalized quarterly measurement values
B_A is the annual baseline background dose
MDD_A is the annual minimum differential dose
F_A is the annual facility related dose

Table 3.13-3 summarizes the evaluation of the TLD measurements using the methodology described in ANSI/HPS N13.37-2014. As noted in Table 3.13-3, a quarterly dose of 8.0 mR and 7.3 mR was calculated for location TL-25 during the 1st and 2nd quarters of 2021 using the ANSI/HPS N13.37-2014 methodology and the baseline values calculated using data from 2004 to 2014. However, this dose was determined not to be facility related due to the distance of this TLD location with respect to the plant (7.6 km) and the lack of any observed dose for TLD locations closer to the plant. The observed dose is likely a result of a change in the environment at the TLD location. Figure 3.10.1 shows a step increase in the quarterly TLD values for this location starting in 2020. For this reason, the location will continue to be monitored and the quarterly and annual baseline values for this location will be adjusted, as necessary.

The direct radiation-monitoring program demonstrated that no increasing or decreasing trends were detected. Therefore, there was no offsite dose to the public or impact to the environment from the operation of the plant.

Any TLD collection and analysis deviations from the ODCM required program that may have occurred during the year are described in Section 5.

Table 3.13-1

Environmental TLD Measurements
Net Exposure in mR/Standard Quarter (91 days)

2021

Sta. No.	Description	1st Quarter Exp.	1st Quarter S.D.	2nd Quarter Exp.	2nd Quarter S.D.	3rd Quarter Exp.	3rd Quarter S.D.	4th Quarter Exp.	4th Quarter S.D.	Qtr Ave. Exp.
TL-01	Brimmer's Lane	17.9	± 0.7	19.2	± 0.9	17.9	± 0.8	20.1	± 0.9	18.8
TL-02	Landing Road	14.0	± 0.7	14.4	± 0.7	13.7	± 0.6	15.5	± 0.7	14.4
TL-03	Glade Path	15.2	± 0.6	14.9	± 0.7	14.2	± 0.6	15.5	± 0.6	15.0
TL-04	Island Path	15.4	± 0.9	16.3	± 0.9	15.3	± 0.8	17.3	± 0.7	16.1
TL-05	Harbor Road	15.2	± 0.6	15.0	± 0.6	14.3	± 0.7	16.3	± 0.9	15.2
TL-06	Barge Landing	14.2	± 0.7	14.7	± 0.8	13.8	± 0.6	15.8	± 0.8	14.6
TL-07	Cross Road	13.4	± 0.7	13.5	± 0.5	12.2	± 0.6	14.7	± 0.6	13.5
TL-08	Farm Lane	15.1	± 0.6	16.0	± 0.5	14.7	± 0.7	16.5	± 0.8	15.6
TL-09	Farm Lane	15.8	± 0.8	17.6	± 0.6	15.4	± 0.8	18.1	± 0.8	16.7
TL-10	Site Boundary	14.3	± 0.7	16.7	± 0.6	15.1	± 0.7	18.5	± 0.9	16.2
TL-11	Site Boundary	16.5	± 0.8	19.0	± 0.7	17.4	± 0.9	21.0	± 0.8	18.5
TL-12	Site Boundary	17.4	± 0.7	19.1	± 0.9	17.8	± 0.8	20.0	± 0.9	18.6
TL-13	Inside Site Boundary	17.7	± 1.1	19.6	± 0.9	18.0	± 0.8	20.6	± 0.9	19.0
TL-14	Trailer Park	15.8	± 0.7	16.6	± 0.8	15.5	± 0.7	17.8	± 1.0	16.4
TL-15	Brimmer's Lane	18.1	± 0.7	19.5	± 0.7	18.1	± 0.9	20.2	± 1.0	19.0
TL-16	Brimmer's Lane	16.5	± 0.9	17.4	± 0.7	16.3	± 0.7	18.9	± 0.9	17.3
TL-17	South Road	13.9	± 0.7	14.4	± 0.7	14.3	± 0.6	15.5	± 0.7	14.5
TL-18	Mill Road	17.4	± 0.7	18.0	± 0.7	17.5	± 0.8	19.6	± 0.8	18.1
TL-19	Appledore Avenue	15.1	± 0.7	15.3	± 0.7	14.9	± 0.7	17.0	± 0.7	15.6
TL-20	Ashworth Avenue	16.5	± 0.9	16.8	± 0.6	15.7	± 0.7	18.9	± 0.8	17.0
TL-21	Route 1A	17.8	± 0.9	18.5	± 0.8	17.7	± 0.8	19.8	± 0.7	18.5
TL-22	Cable Avenue	15.7	± 0.6	16.4	± 0.7	15.7	± 0.7	18.3	± 0.9	16.5
TL-23	Ferry Road	15.3	± 0.6	15.6	± 0.5	15.1	± 0.7	17.4	± 0.8	15.9
TL-24	Ferry Lots Lane	16.3	± 0.8	17.1	± 0.7	16.3	± 0.9	18.6	± 0.9	17.1
TL-25	Elm Street	23.6	± 1.0	22.9	± 0.8	(1)		19.5	± 0.9	22.0
TL-26	Route 107A	14.9	± 0.7	15.1	± 0.8	14.9	± 0.7	16.8	± 0.8	15.4
TL-27	Highland Street	16.1	± 0.9	16.3	± 0.7	16.0	± 0.9	19.9	± 0.7	17.1
TL-28	Route 150	17.0	± 0.7	17.5	± 0.8	16.5	± 1.1	19.6	± 0.8	17.7
TL-29	Frying Pan Lane	15.3	± 0.8	16.4	± 0.7	15.3	± 0.7	17.4	± 0.7	16.1
TL-30	Route 27	16.2	± 0.7	16.9	± 0.8	16.3	± 0.7	18.1	± 0.8	16.9
TL-31	Alumni Drive	13.9	± 0.6	14.8	± 0.6	13.9	± 0.8	15.6	± 0.8	14.6
TL-32	SB Elementary School	17.6	± 0.7	18.6	± 0.9	17.8	± 0.8	19.9	± 0.8	18.5
TL-33	Dock Area	11.8	± 0.9	11.7	± 0.6	11.4	± 0.8	12.8	± 0.7	11.9
TL-34	Bow Street	20.5	± 0.9	20.9	± 0.9	20.5	± 0.8	22.7	± 1.0	21.2
TL-35	Lincoln Ack. School	17.2	± 0.8	18.6	± 0.6	18.2	± 1.0	19.2	± 0.6	18.3
TL-36	Route 97(Control)	15.5	± 0.7	15.3	± 0.8	15.1	± 0.7	16.3	± 0.8	15.6
TL-37	Plaistow, NH (Control)	17.3	± 0.9	18.2	± 0.8	18.4	± 1.1	19.8	± 1.0	18.4
TL-38	Hampstead, NH (Control)	18.6	± 1.1	18.4	± 0.6	18.3	± 1.1	20.1	± 0.9	18.9

Table 3.13-1 (Continued)

Environmental TLD Measurements
Net Exposure in mR/Standard Quarter (91 days)

2021

Sta. No.	Description	1st Quarter Exp.	1st Quarter S.D.	2nd Quarter Exp.	2nd Quarter S.D.	3rd Quarter Exp.	3rd Quarter S.D.	4th Quarter Exp.	4th Quarter S.D.	Qtr. Ave. Exp.
TL-39	Fremont, NH (Control)	20.8	± 0.9	21.3	± 0.6	20.1	± 1.1	22.7	± 0.9	21.2
TL-40	Newmarket, NH (Control)	16.1	± 0.8	17.5	± 0.5	17.7	± 0.9	19.3	± 0.9	17.7
TL-41	Portsmouth, NH (Control)	16.3	± 0.7	16.5	± 0.8	16.3	± 1.0	17.5	± 0.9	16.7
TL-42	Ipswich, MA (Control)	15.0	± 0.6	15.1	± 0.5	14.9	± 0.7	16.6	± 0.8	15.4
TL-44	SB Education Center	13.9	± 0.8	16.5	± 0.9	13.9	± 0.7	18.0	± 1.0	15.6
TL-45	Hampton Fire Station	15.0	± 1.0	17.0	± 1.0	16.0	± 0.9	18.4	± 1.1	16.6
TL-46	SB Police Station	16.4	± 0.8	17.1	± 0.6	16.4	± 1.0	18.4	± 0.9	17.1
TL-47	Route 84	16.5	± 0.9	17.1	± 0.9	16.3	± 0.9	18.8	± 0.9	17.2
	Mean of Indicators	16.1		16.9		15.8		18.1		16.8
	Mean of Controls	17.1		17.5		17.3		18.9		17.7

(1) TLD missing at time of collection.

Table 3.13-2

Pre-Operational Environmental TLD Measurements
Net Exposure in mR/Standard Quarter (91 days)

	1st Quarter Exp.	2nd Quarter Exp.	3rd Quarter Exp.	4th Quarter Exp.	Qtr Ave Over Yr Exp.
1982					
Mean of Indicators	--	17.1	18.1	17.5	17.6
Mean of Controls	--	16.9	18.1	17.9	16.8
1983					
Mean of Indicators	16.7	17.1	18.8	17.9	17.6
Mean of Controls	16.9	17.5	18.7	18.4	17.9
1984					
Mean of Indicators	16.1	17.1	16.9	17.5	17.0
Mean of Controls	17.6	17.4	15.8	18.7	17.4
1985					
Mean of Indicators	16.9	18.0	18.9	16.1	17.4
Mean of Controls	16.8	17.7	18.9	16.1	17.4
1986					
Mean of Indicators	14.0	15.5	15.3	15.0	15.0
Mean of Controls	13.9	18.0	16.8	15.1	16.0
1987					
Mean of Indicators	12.7	14.8	15.0	14.4	14.2
Mean of Controls	13.0	14.8	15.3	15.0	14.6
1988					
Mean of Indicators	13.5	14.1	14.7	14.9	14.3
Mean of Controls	13.3	14.4	18.1	14.6	15.1
1989					
Mean of Indicators	14.4	14.3	--	--	14.4
Mean of Controls	14.0	14.4	--	--	14.2
All Pre-Operational					
Mean of Indicators	14.9	16.0	16.8	16.2	15.9
Mean of Controls	15.1	16.4	17.4	16.5	16.2

Table 3.13-3

Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

		Quarterly Ave.					Quarterly Facility Dose				Annual	2021	Annual Facility Dose
		Baseline, B_Q	2021 Quarterly Monitoring Data, M_Q (mR/qtr)				$F_Q = M_Q - (B_Q+MDD_Q)$				Baseline, B_A	Annual TLD Data, M_A	$F_A = M_A - (B_A+MDD_A)$
		mR	1	2	3	4	1	2	3	4	mR	mR	
TL-01	Brimmer's Lane	18.6	17.9	19.2	17.9	20.1	ND	ND	ND	ND	74.5	75.1	ND
TL-02	Landing Road	13.8	14.0	14.4	13.7	15.5	ND	ND	ND	ND	55.1	57.6	ND
TL-03	Glade Path	14.9	15.2	14.9	14.2	15.5	ND	ND	ND	ND	59.5	59.9	ND
TL-04	Island Path	15.9	15.4	16.3	15.3	17.3	ND	ND	ND	ND	63.7	64.3	ND
TL-05	Harbor Road	14.6	15.2	15.0	14.3	16.3	ND	ND	ND	ND	58.1	60.9	ND
TL-06	Barge Landing	14.6	14.2	14.7	13.8	15.8	ND	ND	ND	ND	58.6	58.5	ND
TL-07	Cross Road	12.5	13.4	13.5	12.2	14.7	ND	ND	ND	ND	50.0	53.7	ND
TL-08	Farm Lane	15.8	15.1	16.0	14.7	16.5	ND	ND	ND	ND	63.1	62.3	ND
TL-09	Farm Lane	16.3	15.8	17.6	15.4	18.1	ND	ND	ND	ND	65.3	67.0	ND
TL-10	Site Boundary	17.2	14.3	16.7	15.1	18.5	ND	ND	ND	ND	68.7	64.7	ND
TL-11	Site Boundary	17.5	16.5	19.0	17.4	21.0	ND	ND	ND	ND	69.9	73.9	ND
TL-12	Site Boundary	18.2	17.4	19.1	17.8	20.0	ND	ND	ND	ND	72.6	74.2	ND
TL-13	Inside Site Boundary	19.2	17.7	19.6	18.0	20.6	ND	ND	ND	ND	77.0	76.0	ND
TL-14	Trailer Park	15.9	15.8	16.6	15.5	17.8	ND	ND	ND	ND	63.5	65.8	ND
TL-15	Brimmer's Lane	18.8	18.1	19.5	18.1	20.2	ND	ND	ND	ND	75.0	75.9	ND
TL-16	Brimmer's Lane	16.2	16.5	17.4	16.3	18.9	ND	ND	ND	ND	64.8	69.1	ND
TL-17	South Road	16.3	13.9	14.4	14.3	15.5	ND	ND	ND	ND	65.2	58.0	ND
TL-18	Mill Road	15.5	17.4	18.0	17.5	19.6	ND	ND	ND	ND	65.0	72.4	ND
TL-19	Appledore Avenue	15.5	15.1	15.3	14.9	17.0	ND	ND	ND	ND	62.1	62.3	ND
TL-20	Ashworth Avenue	17.5	16.5	16.8	15.7	18.9	ND	ND	ND	ND	70.2	67.9	ND
TL-21	Route 1A	16.6	17.8	18.5	17.7	19.8	ND	ND	ND	ND	66.3	73.8	ND
TL-22	Cable Avenue	16.3	15.7	16.4	15.7	18.3	ND	ND	ND	ND	65.4	66.1	ND
TL-23	Ferry Road	15.7	15.3	15.6	15.1	17.4	ND	ND	ND	ND	62.7	63.4	ND

Table 3.13-3 (Continued)

Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

		Baseline B_Q	Quarterly Ave. 2021 Quarterly Monitoring Data, M_Q (mR/qtr)				Quarterly Facility Dose $F_Q = M_Q - (B_Q+MDD_Q)$				Annual Baseline B_A	2021 Annual TLD Data, M_A	Annual Facility Dose $F_A = M_A - (B_A+MDD_A)$
		mR	1	2	3	4	1	2	3	4	mR	mR	
TL-24	Ferry Lots Lane	16.0	16.3	17.1	16.3	18.6	ND	ND	ND	ND	63.9	68.3	ND
TL-25	Elm Street	15.6	23.6	22.9	(1)	19.5	8.0(2)	7.3(2)	ND	ND	62.3	66.1	14.6[1]
TL-26	Route 107A	15.4	14.9	15.1	14.9	16.8	ND	ND	ND	ND	61.8	61.6	ND
TL-27	Highland Street	16.1	16.1	16.3	16.0	19.9	ND	ND	ND	ND	64.3	68.3	ND
TL-28	Route 150	16.2	17.0	17.5	16.5	19.6	ND	ND	ND	ND	64.9	70.7	ND
TL-29	Frying Pan Lane	15.4	15.3	16.4	15.3	17.4	ND	ND	ND	ND	61.6	64.4	ND
TL-30	Route 27	15.7	16.2	16.9	16.3	18.1	ND	ND	ND	ND	62.9	67.6	ND
TL-31	Alumni Drive	14.3	13.9	14.8	13.9	15.6	ND	ND	ND	ND	57.0	58.1	ND
TL-32	SB Elementary School	17.8	17.6	18.6	17.8	19.9	ND	ND	ND	ND	71.2	73.9	ND
TL-33	Dock Area	21.4	11.8	11.7	11.4	12.8	ND	ND	ND	ND	84.4	47.7	ND
TL-34	Bow Street	19.5	20.5	20.9	20.5	22.7	ND	ND	ND	ND	78.2	84.6	ND
TL-35	Lincoln Ack. School	18.2	17.2	18.6	18.2	19.2	ND	ND	ND	ND	72.6	73.3	ND
TL-36	Route 97(Control)	15.4	15.5	15.3	15.1	16.3	ND	ND	ND	ND	61.9	62.2	ND
TL-37	Plaistow, NH (Control)	18.0	17.3	18.2	18.4	19.8	ND	ND	ND	ND	72.0	73.8	ND
TL-38	Hampstead, NH (Control)	19.8	18.6	18.4	18.3	20.1	ND	ND	ND	ND	79.3	75.4	ND
TL-39	Fremont, NH (Control)	21.3	20.8	21.3	20.1	22.7	ND	ND	ND	ND	85.2	84.8	ND
TL-40	Newmarket, NH (Control)	16.7	16.1	17.5	17.7	19.3	ND	ND	ND	ND	66.9	70.6	ND
TL-41	Portsmouth, NH (Control)	16.9	16.3	16.5	16.3	17.5	ND	ND	ND	ND	67.6	66.6	ND
TL-42	Ipswich, MA (Control)	14.3	15.0	15.1	14.9	16.6	ND	ND	ND	ND	57.2	61.6	ND
TL-44	SB Education Center	14.8	13.9	16.5	13.9	18.0	ND	ND	ND	ND	59.0	62.3	ND

Table 3.13-3 (Continued)

Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

		Baseline B_Q	Quarterly Ave. 2021 Quarterly Monitoring Data, M_Q (mR/qtr)				Quarterly Facility Dose $F_Q = M_Q - (B_Q+MDD_Q)$				Annual Baseline B_A	2021 Annual TLD Data, M_A	Annual Facility Dose $F_A = M_A - (B_A+MDD_A)$
		mR	1	2	3	4	1	2	3	4	mR	mR	
TL-45	Hampton Fire Station	16.9	15.0	17.0	16.0	18.4	ND	ND	ND	ND	67.7	66.4	ND
TL-46	SB Police Station	16.7	16.4	17.1	16.4	18.4	ND	ND	ND	ND	66.7	68.3	ND
TL-47	Route 84	15.6	16.5	17.1	16.3	18.8	ND	ND	ND	ND	62.4	68.7	ND

MDD_Q = 4.55 = minimum differential exposure, quarterly, 3 times 90th percentile S_Q determined from analysis in mR.

MDD_A = 8.97 = minimum differential exposure, annual, 3 times 90th percentile S_A determined from analysis in mR.

B_Q = Quarterly baseline exposure (mR).

M_Q = location's 91 day standard quarterly exposure (mR).

L_Q = Quarterly Investigative Level exposure (mR).

B_A = Quarterly baseline background average exposure (mR).

M_A = Annual monitoring data, determined by summing the quarterly data over all four quarters (mR).

L_A = Annual Investigative Level exposure (mR).

ND = Facility contribution to exposure "Not Detected"

(1) TLD missing at time of collection

(2) A quarterly dose of 8.0 mR and 7.3 mR was calculated for location TL-25 for quarters 1 and 2 using the ANSI/HPS N13.37-2014 methodology and the baseline values calculated using data from 2004 to 2014. However, this dose was determined not to be facility related due to the distance of this TLD location with respect to the plant (7.6 km) and the lack of any observed dose for TLD locations closer to the plant. The observed dose is likely a result of a change in the environment at the TLD location. Figure 3.10.1 shows a step increase in the quarterly TLD values for this location starting in 2020. For this reason, the location will continue to be monitored and the quarterly and annual baseline values for this location will be adjusted, as necessary.

FIGURE 3.6

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

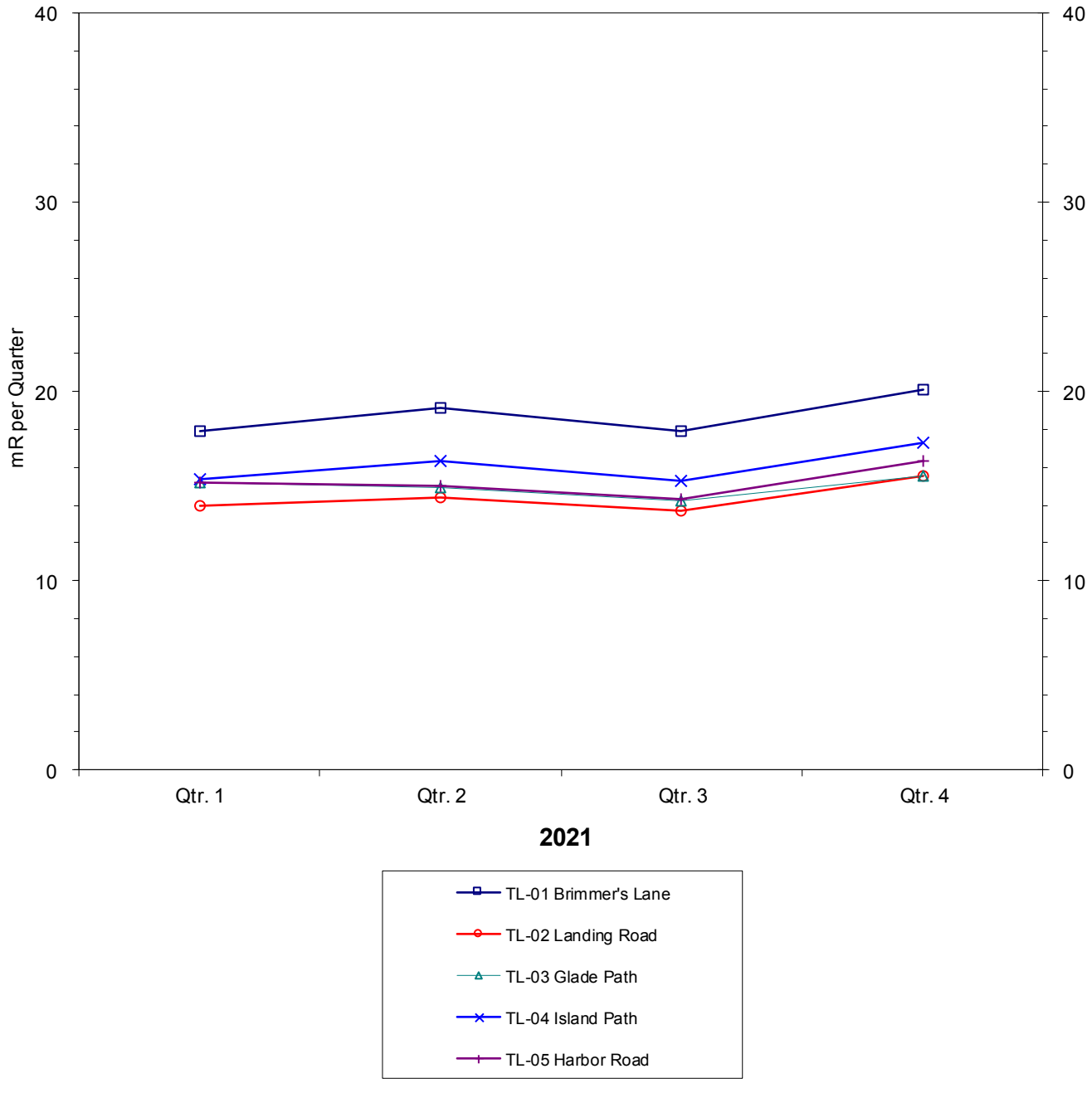


FIGURE 3.6.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

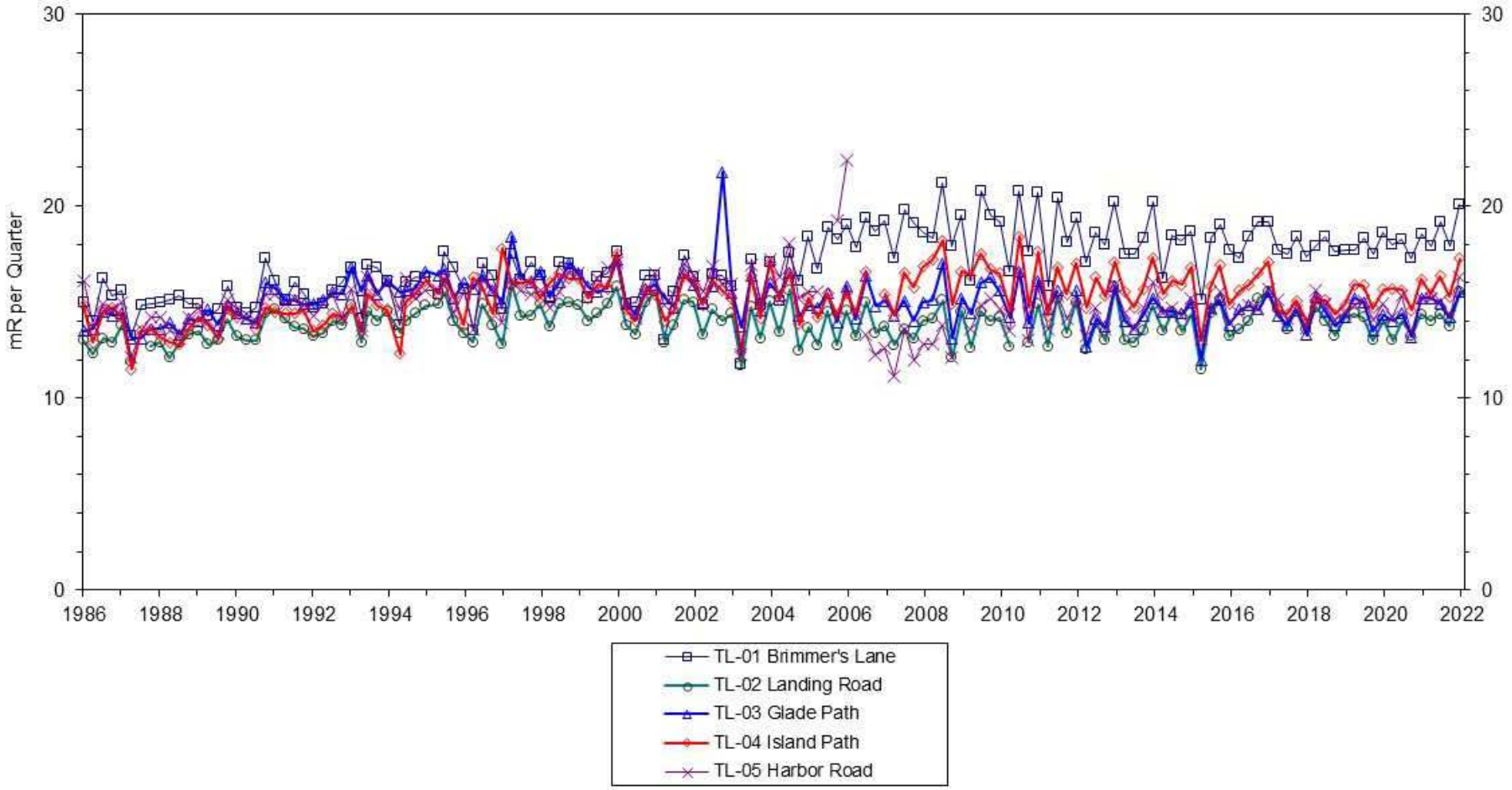


FIGURE 3.7

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

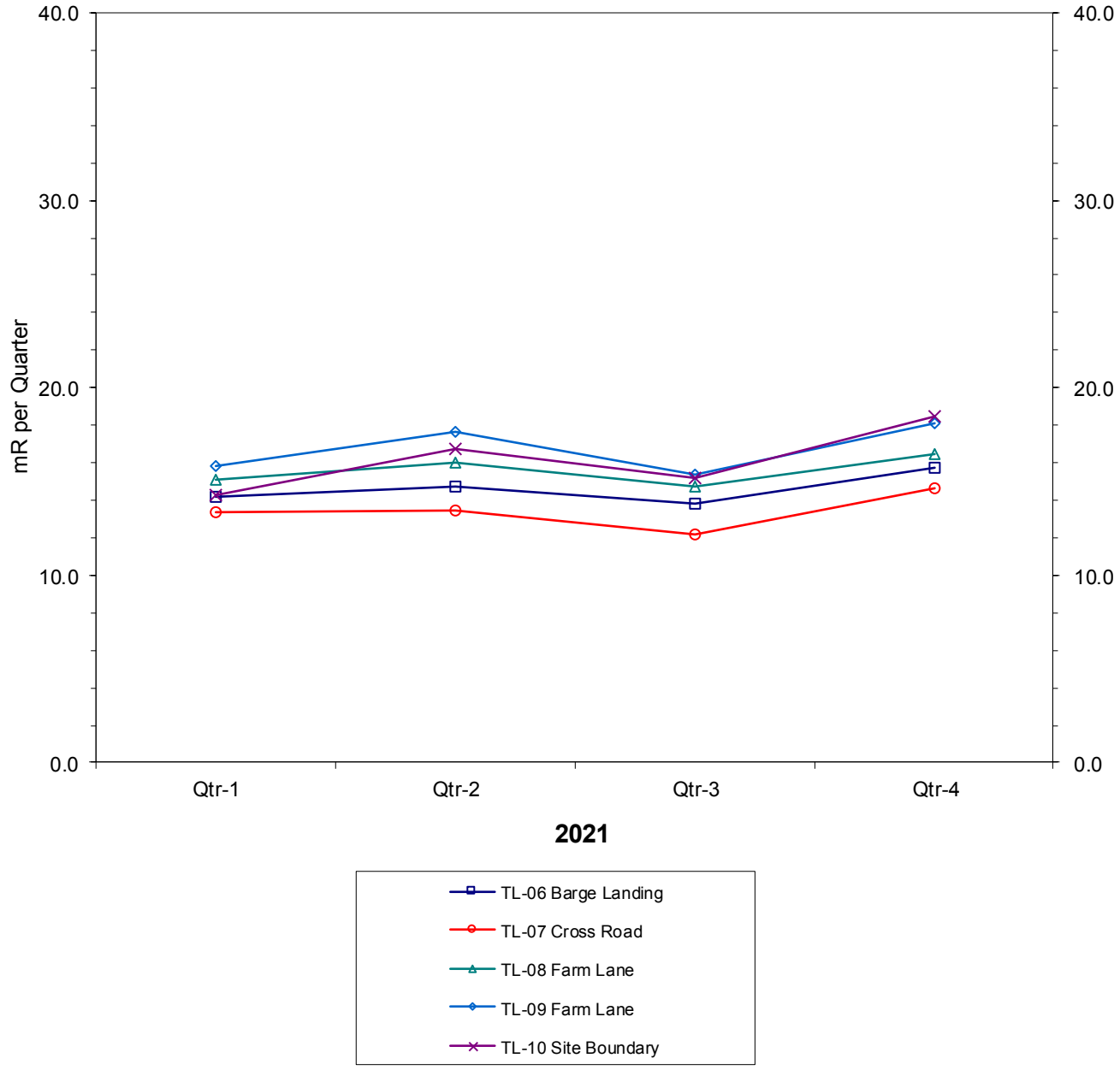


FIGURE 3.7.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

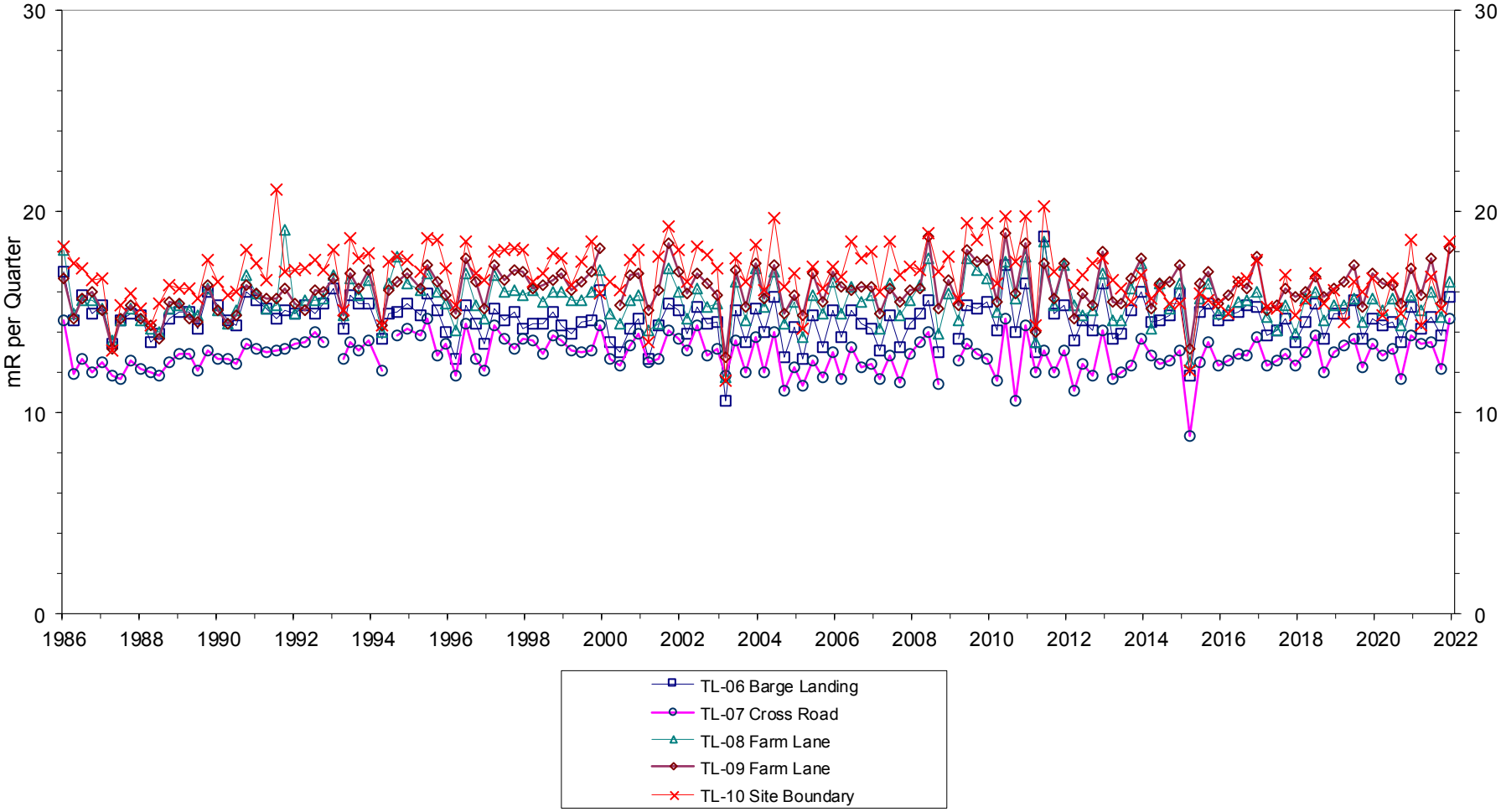


FIGURE 3.8

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

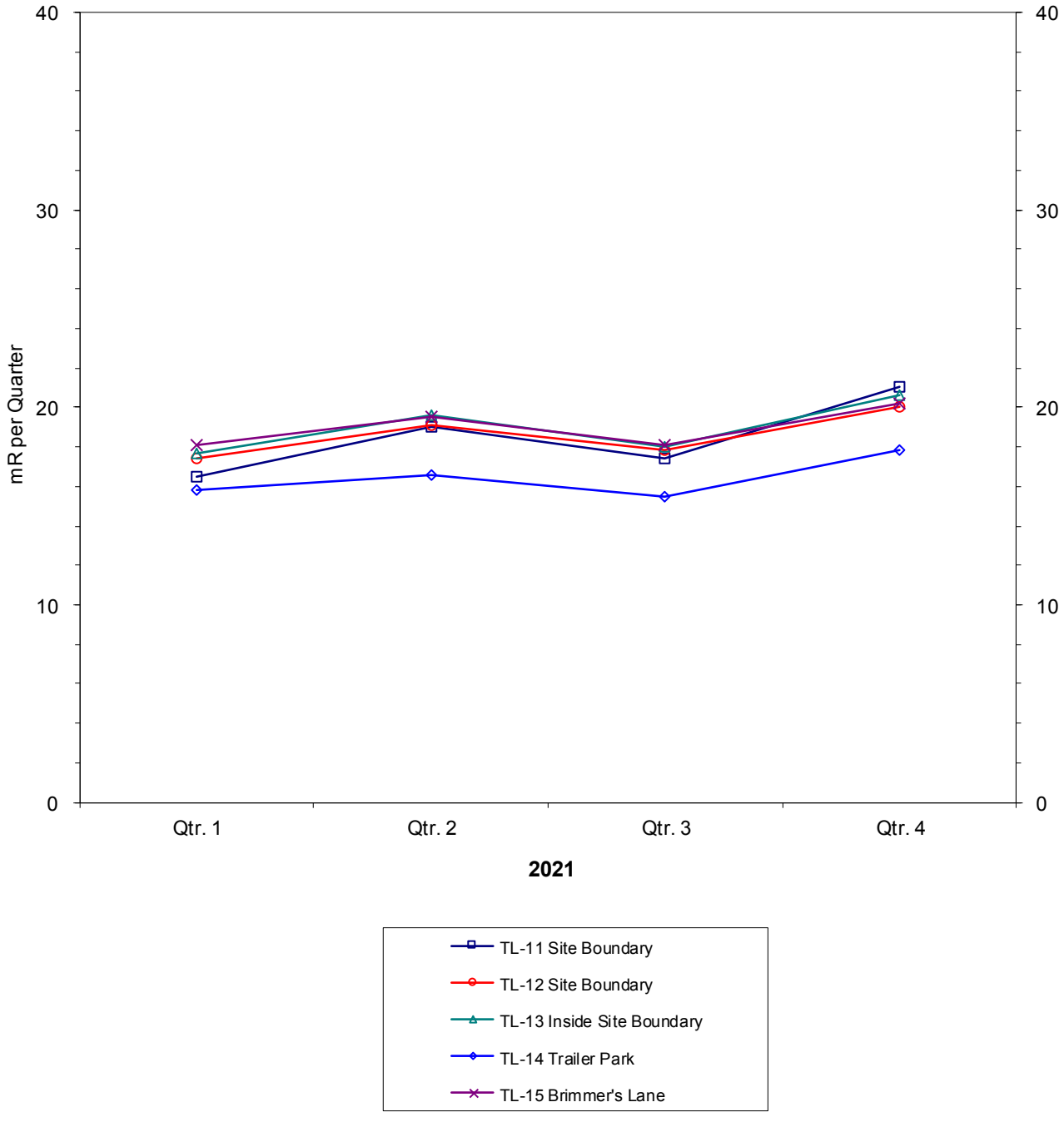


FIGURE 3.8.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

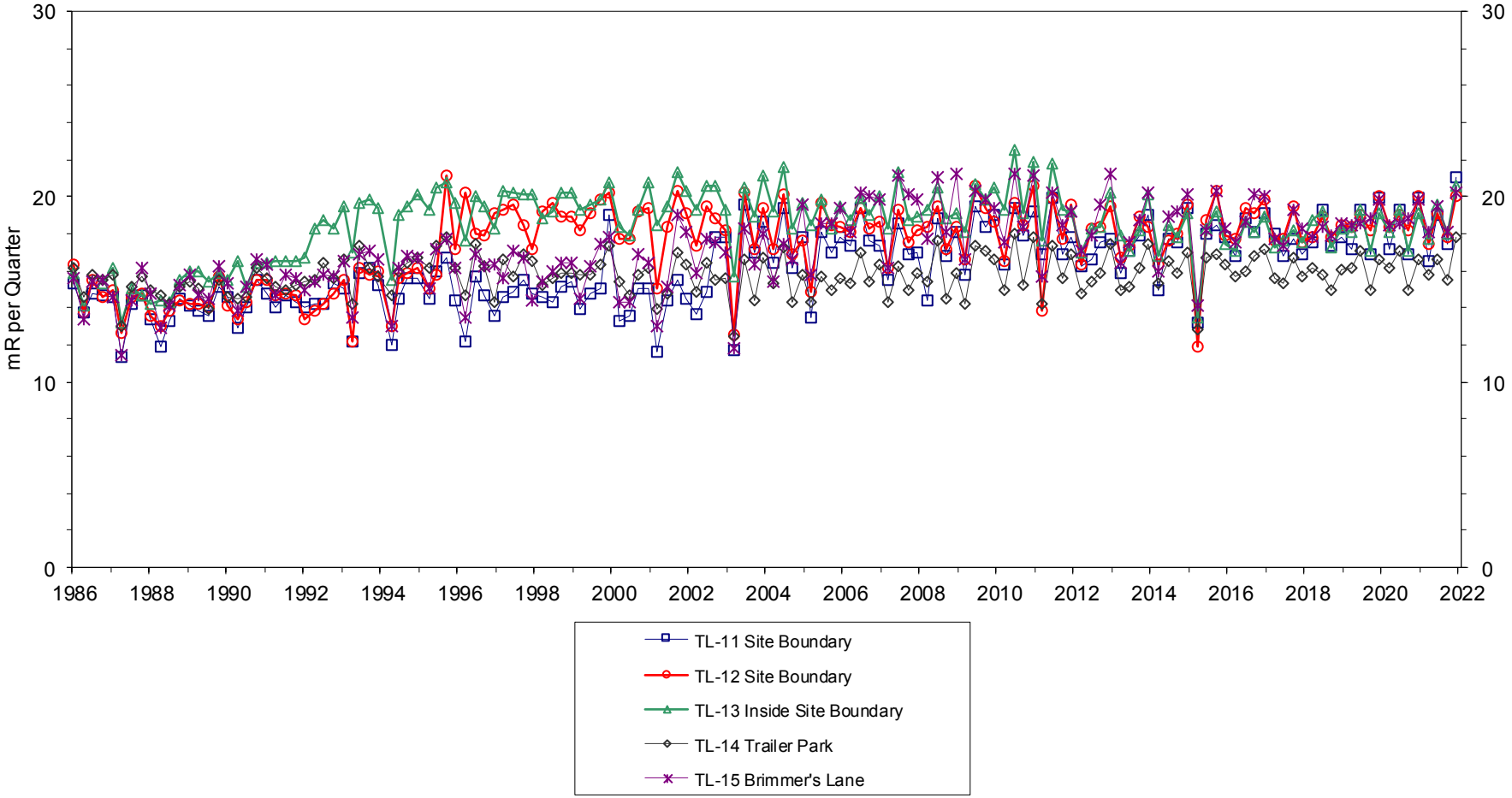


FIGURE 3.9

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

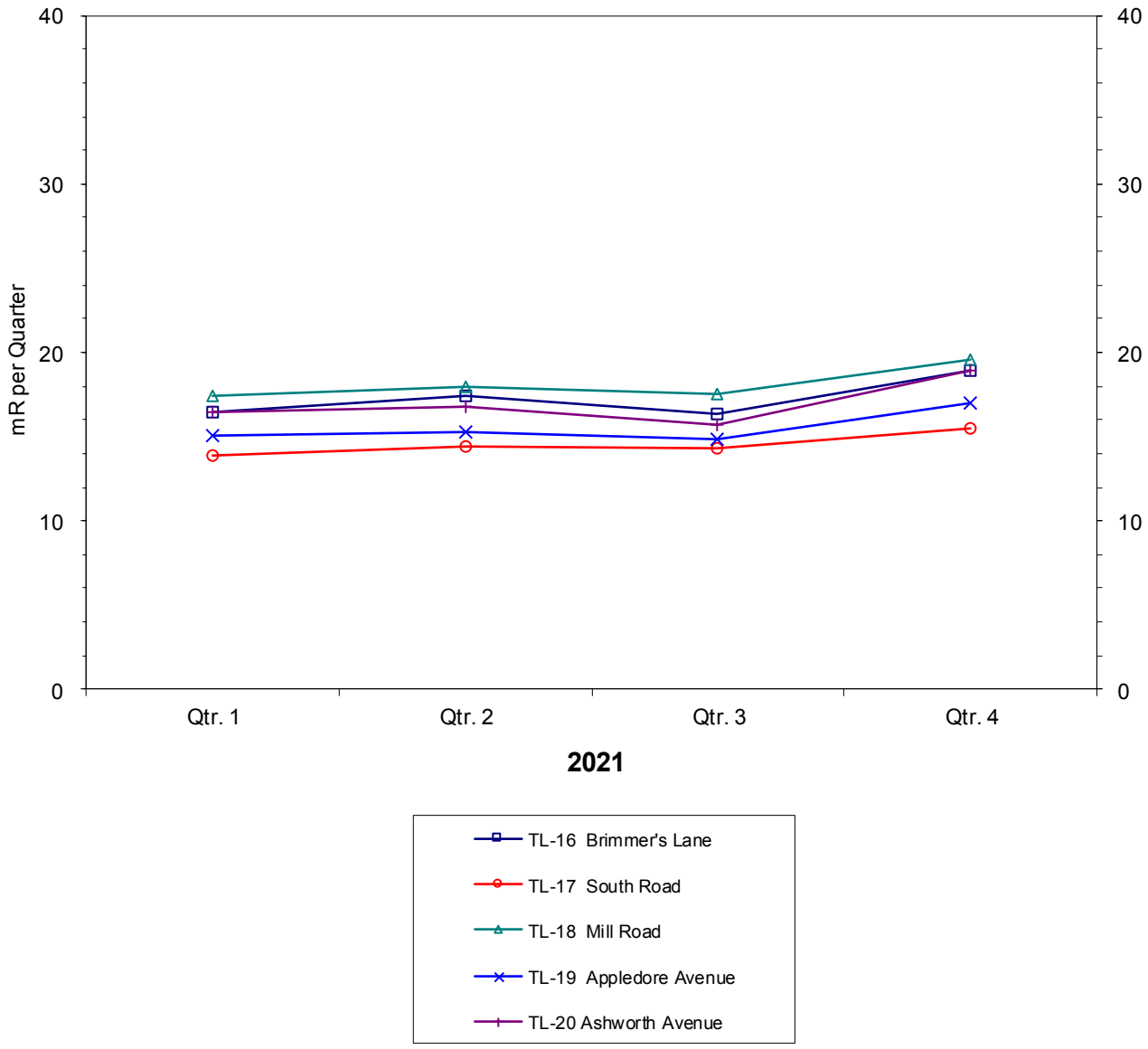


FIGURE 3.9.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

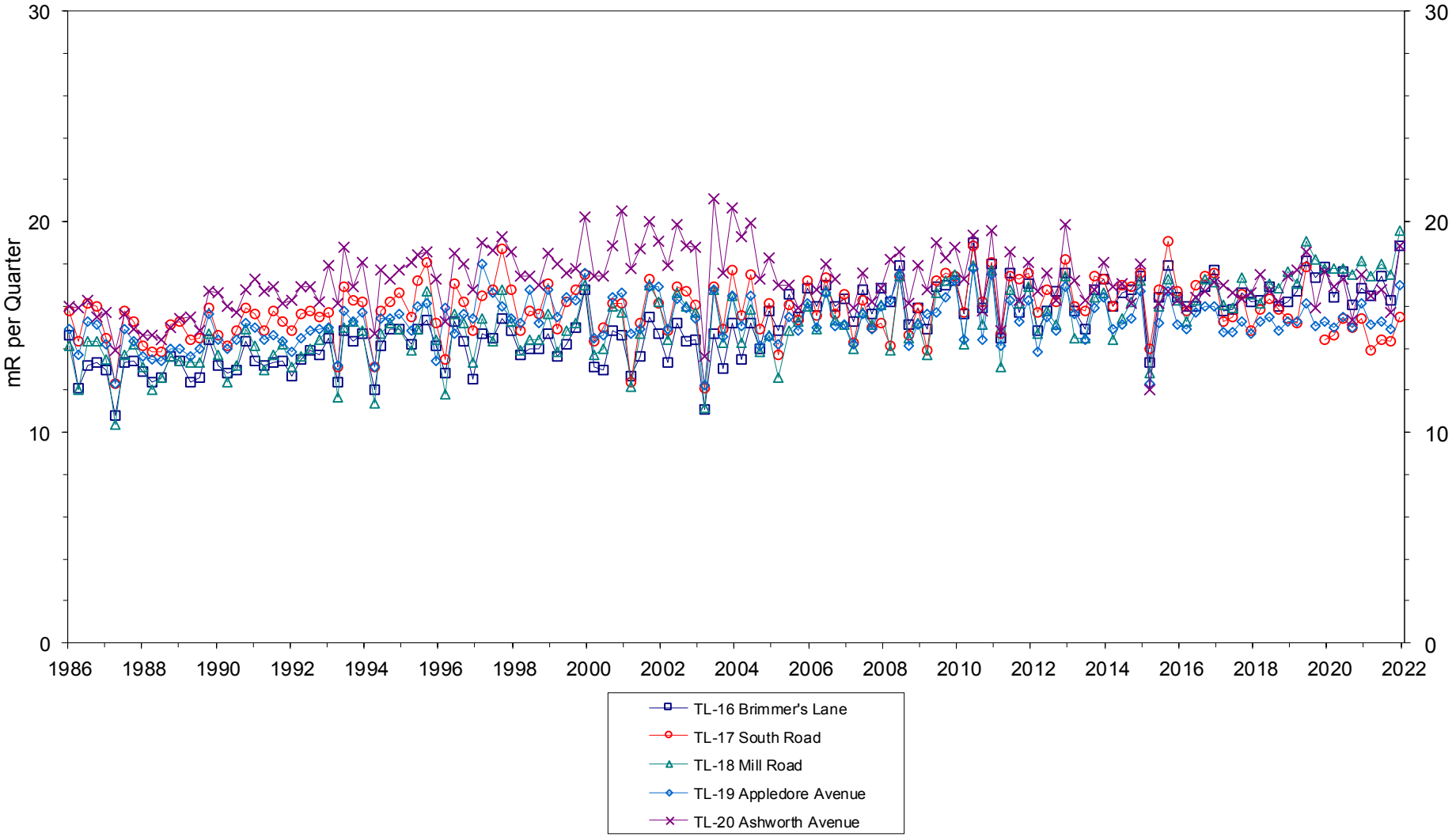


FIGURE 3.10

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

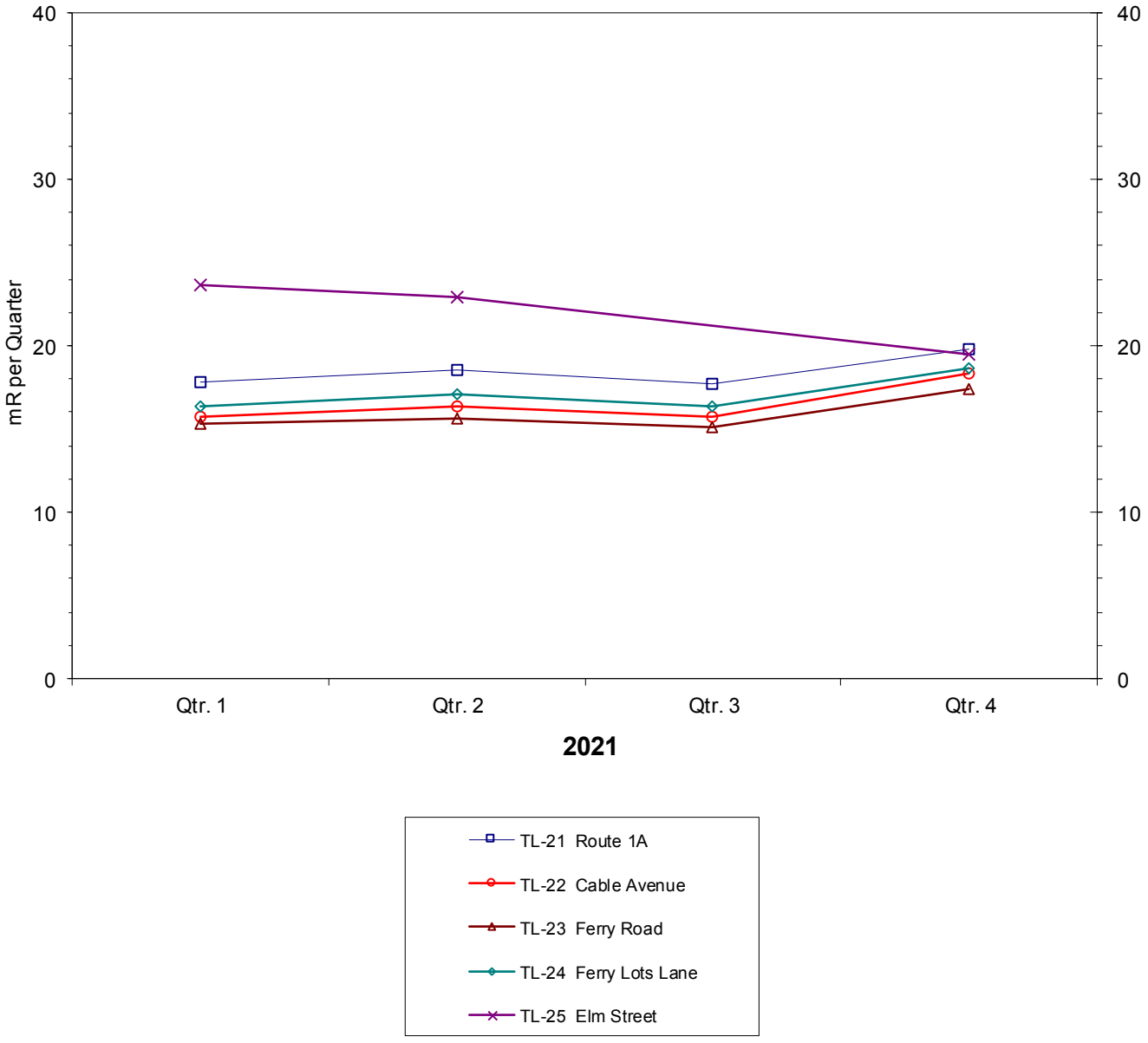


FIGURE 3.10.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

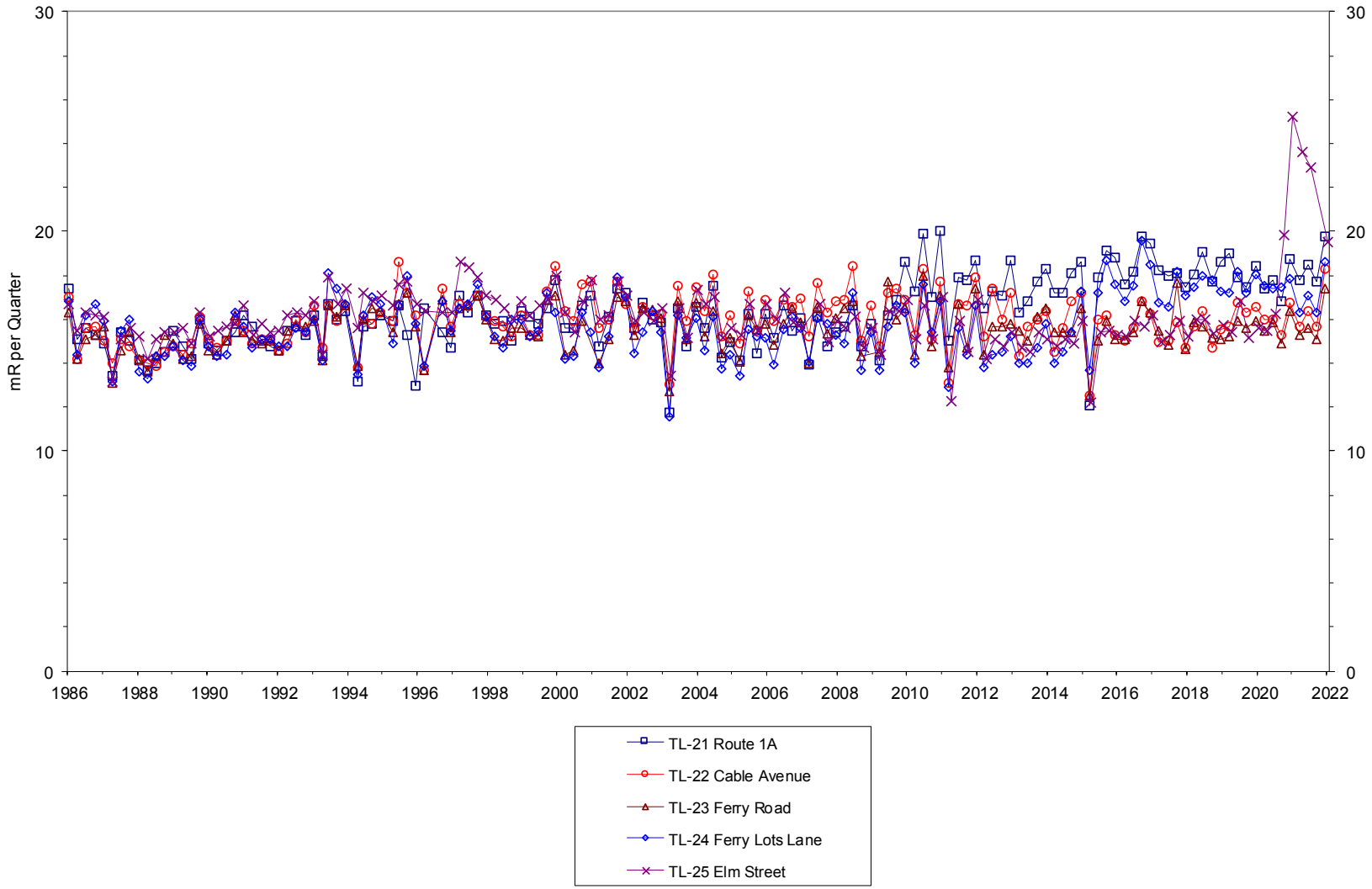


FIGURE 3.11

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

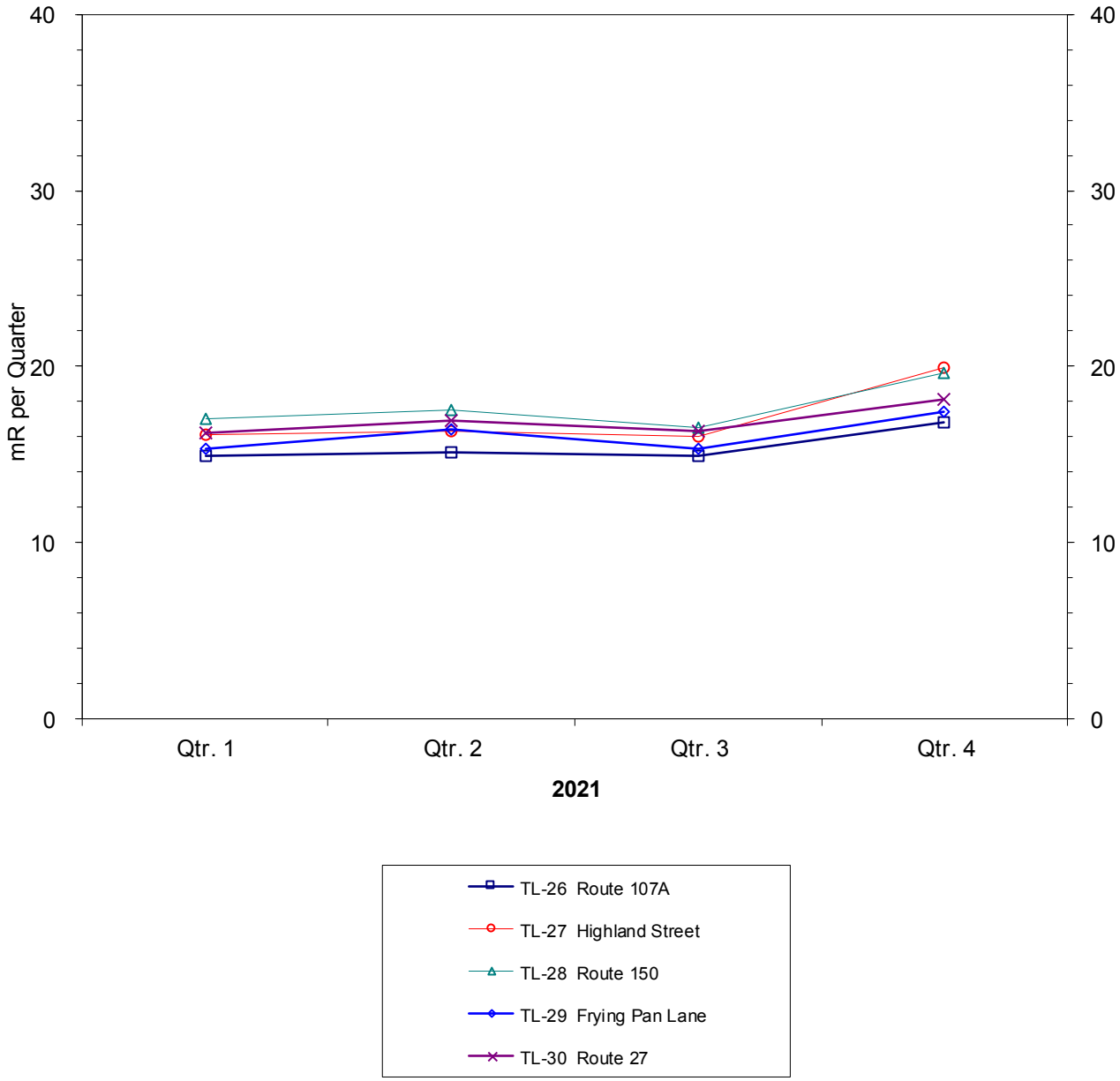


FIGURE 3.11.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

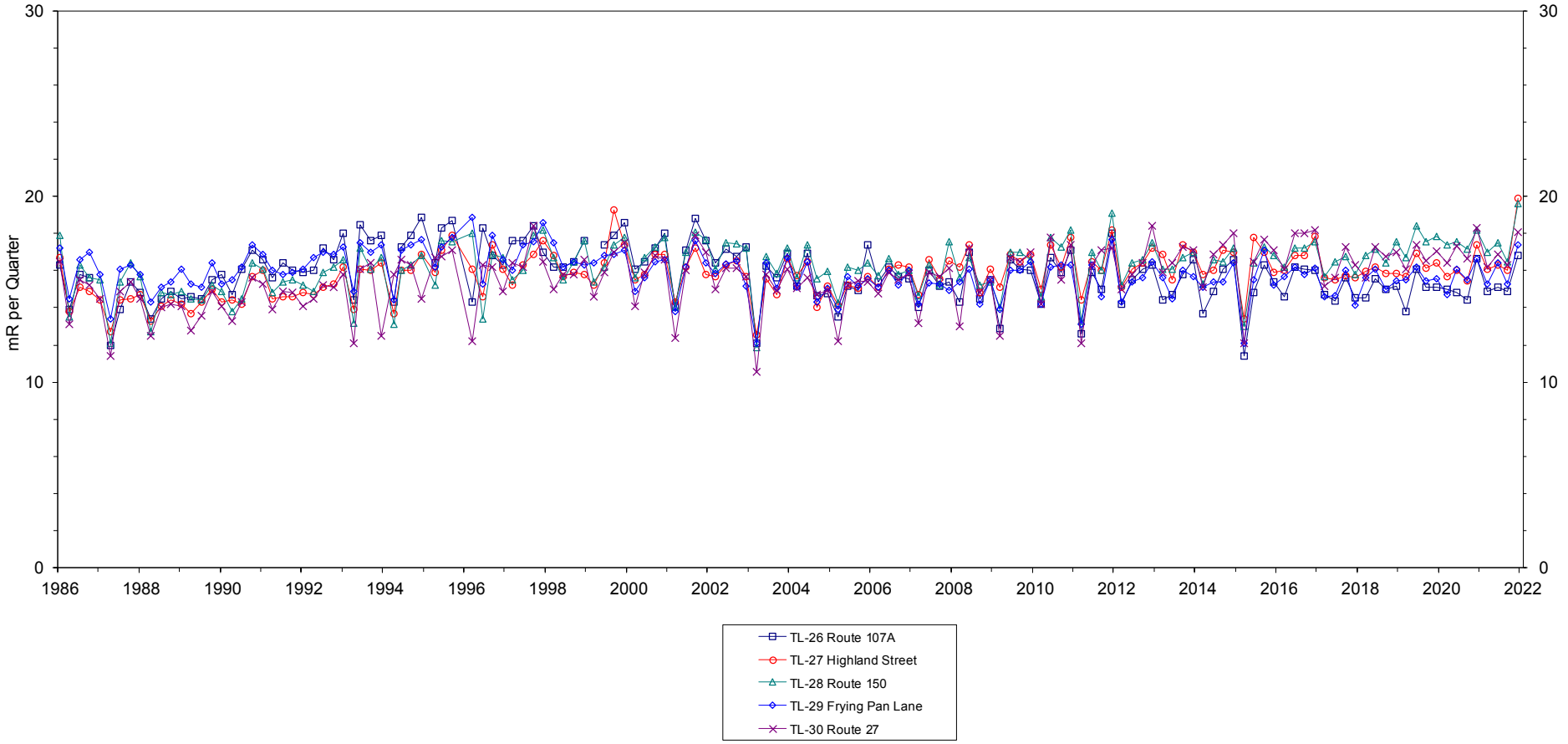


FIGURE 3.12

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

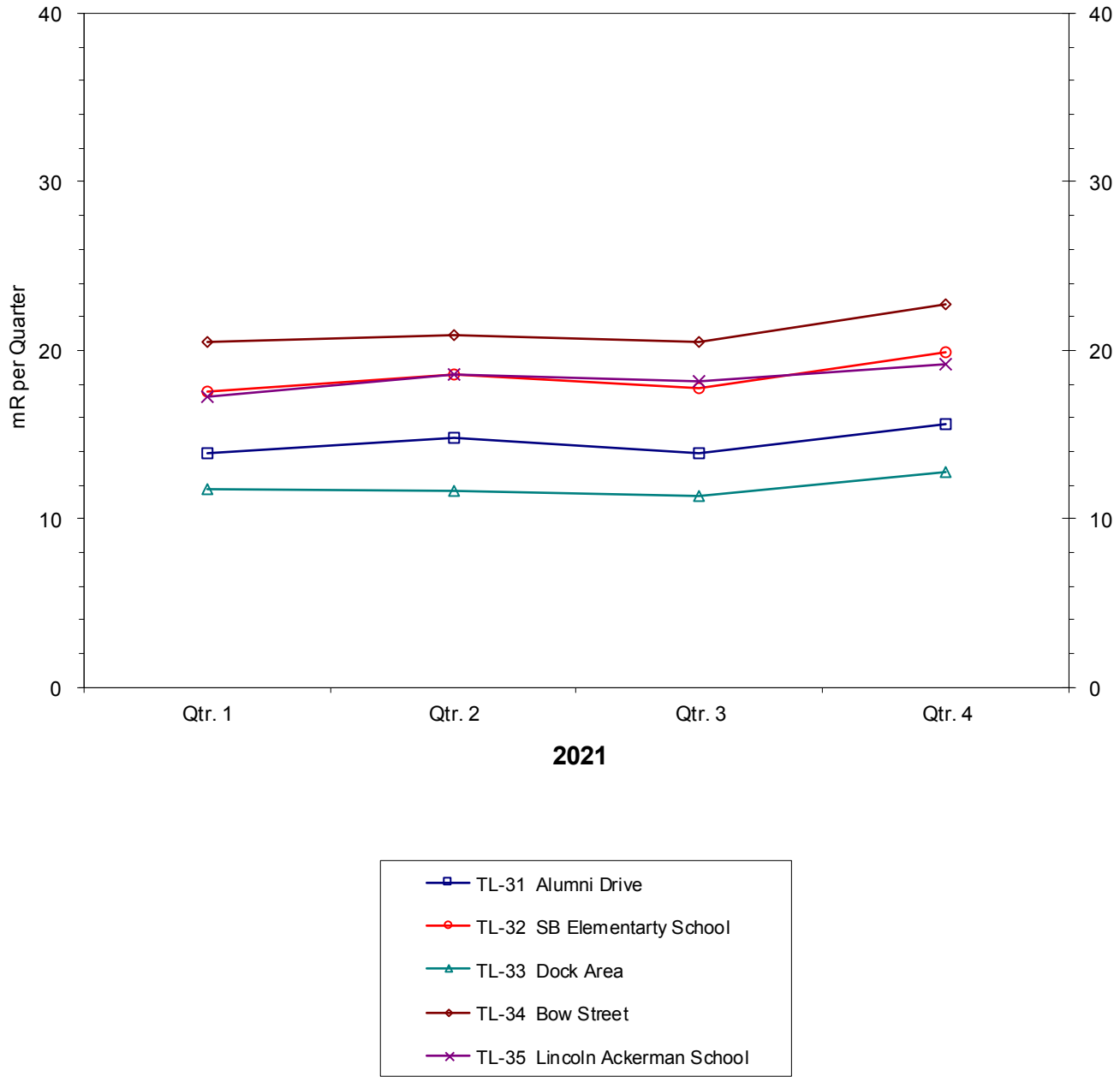


FIGURE 3.12.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

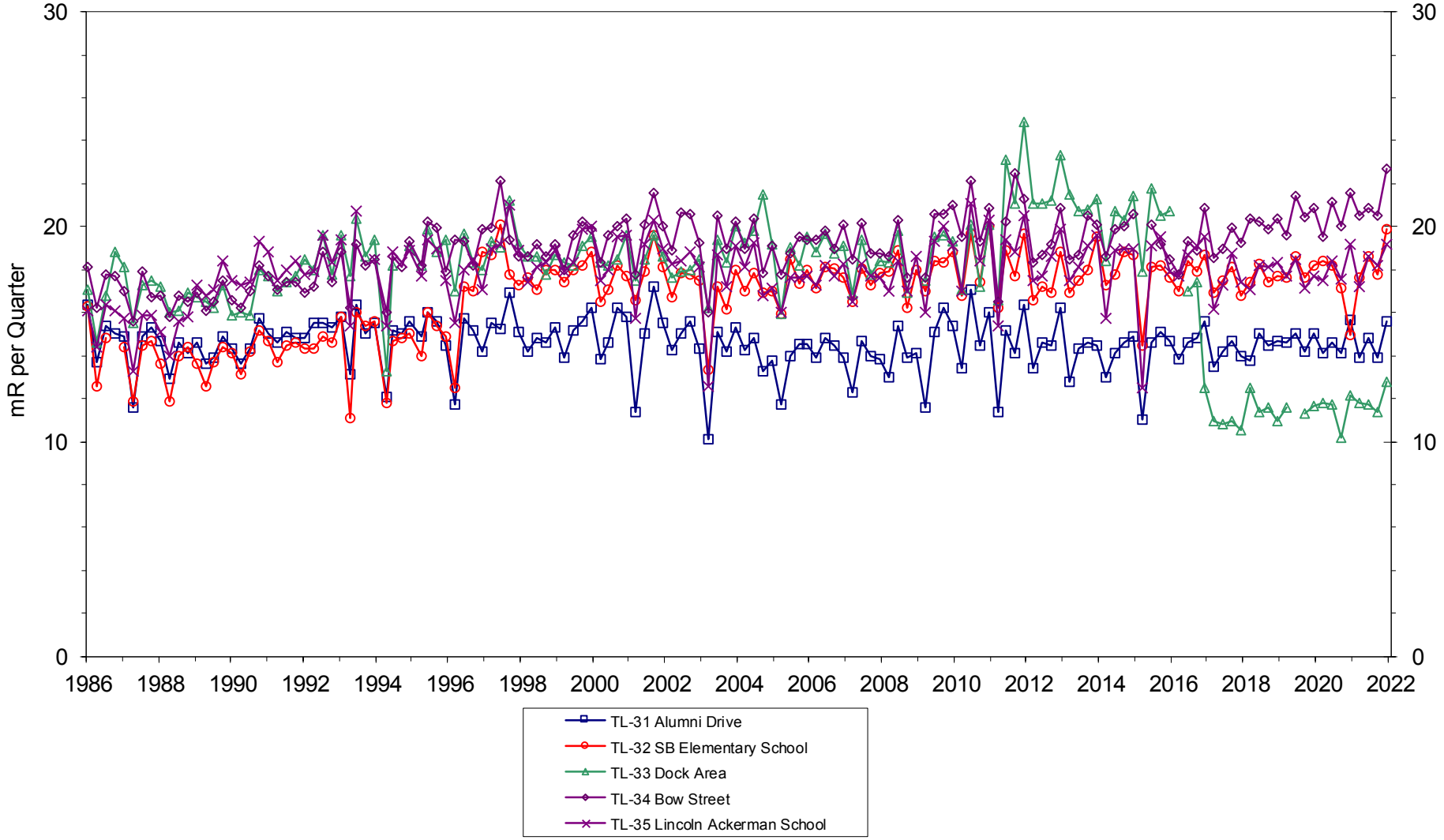


FIGURE 3.13

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

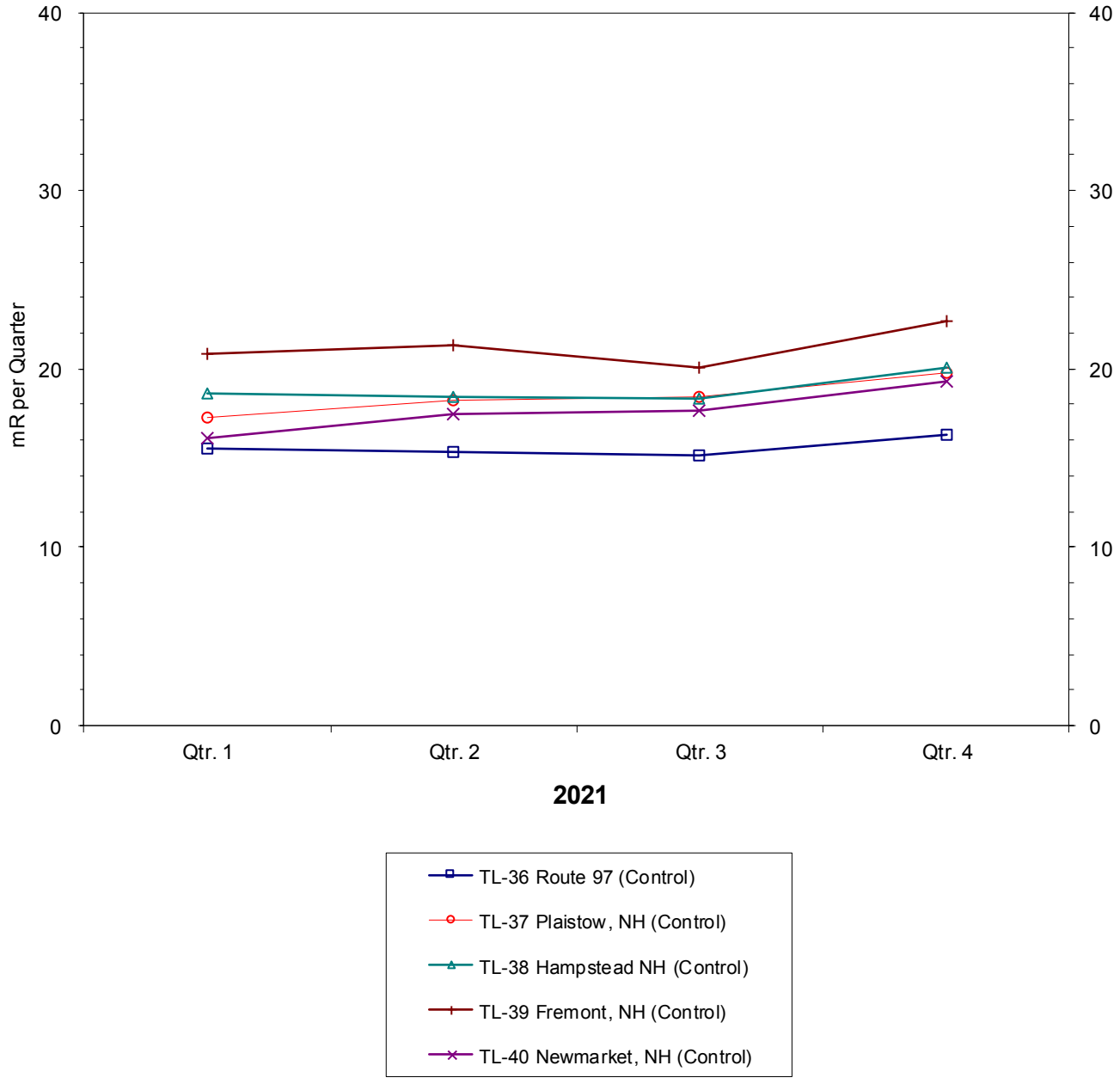


FIGURE 3.13.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

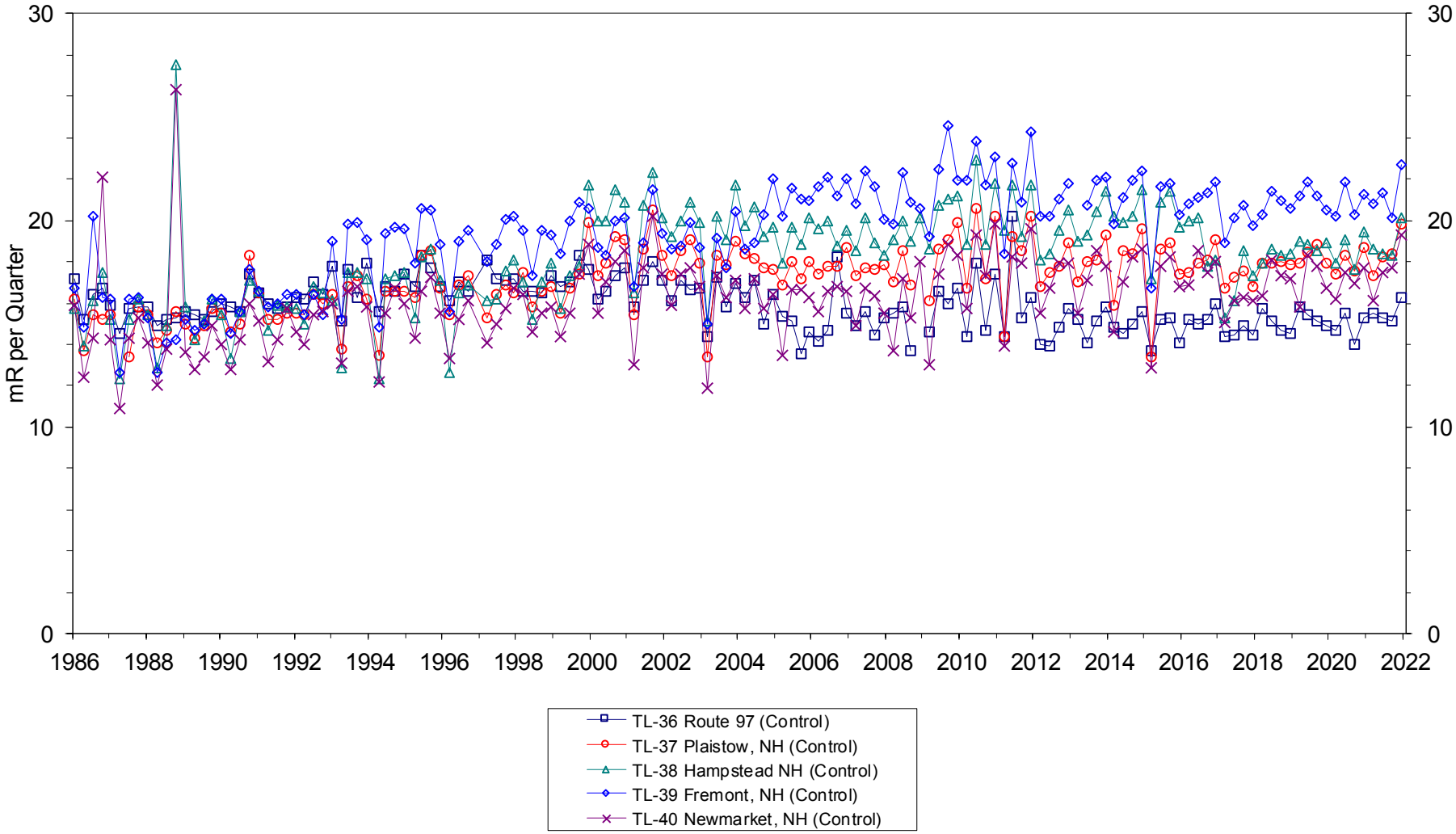


FIGURE 3.14

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

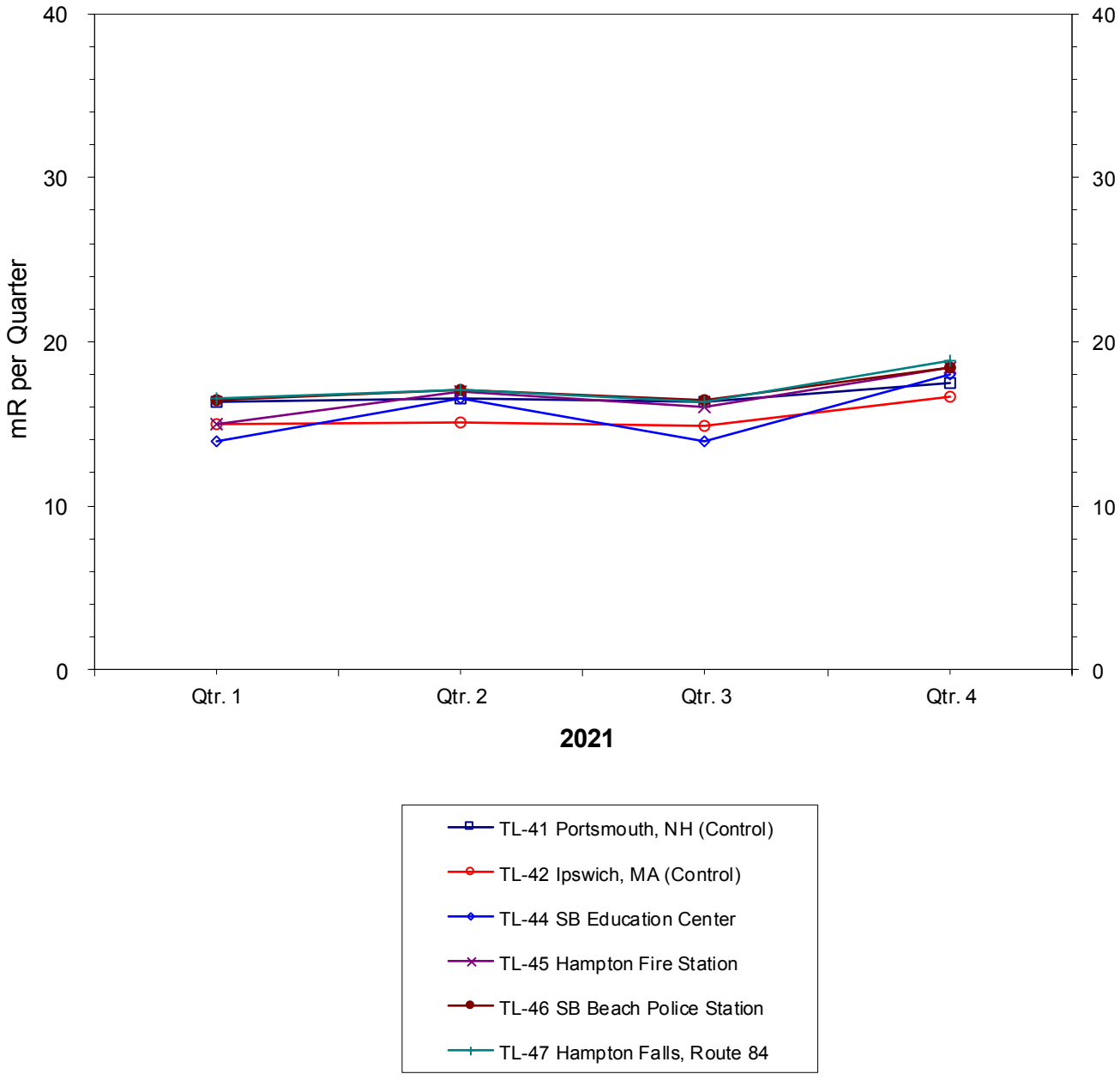
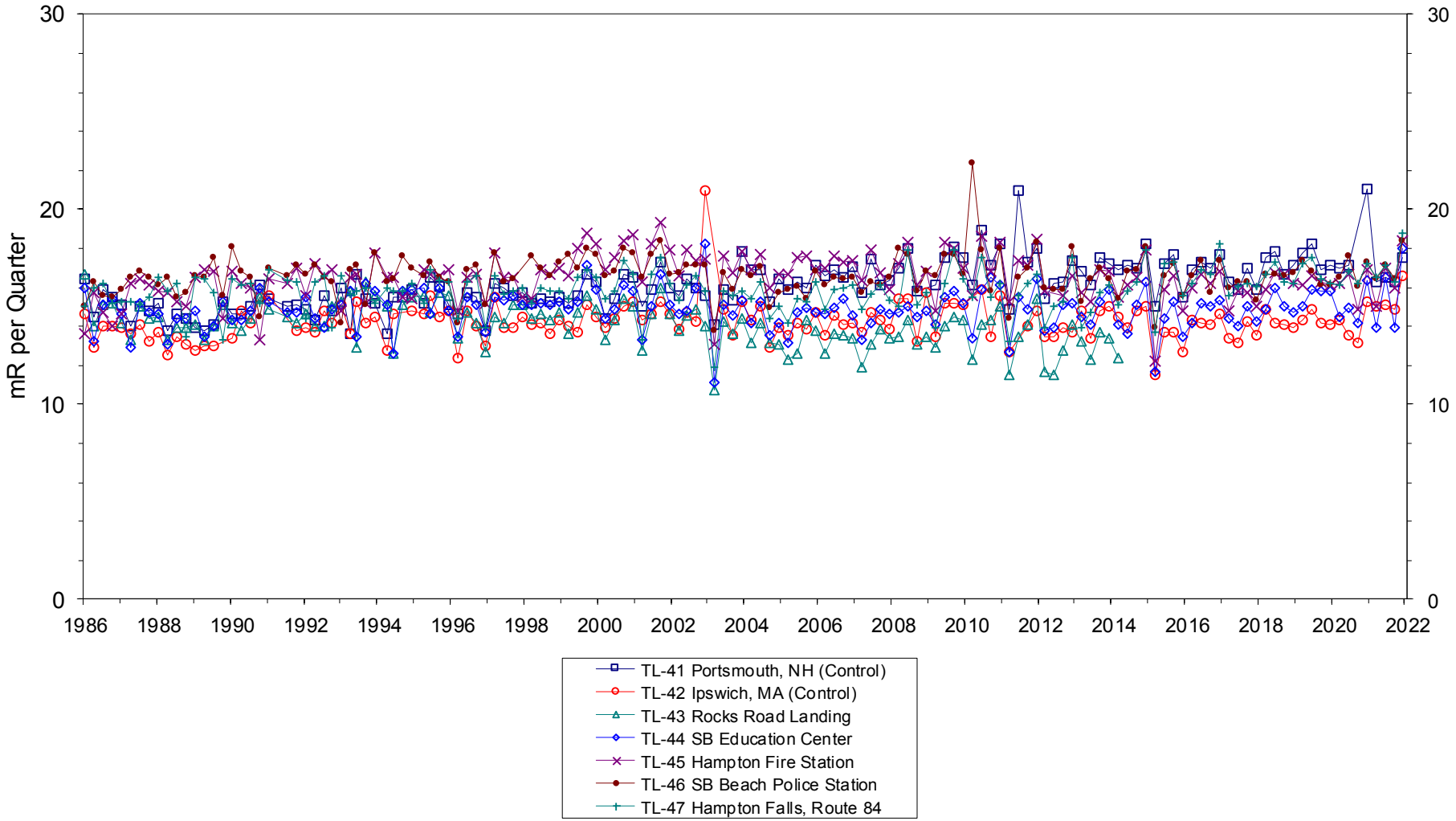


FIGURE 3.14.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION



4.0 Dry Fuel Storage REMP & Data Summary

The Dry Fuel Storage (DFS) radiological environmental monitoring program required by ODCM Control C.9.4.1 provides representative measurements of direct (including scattered) radiation exposure at those locations that have the highest potential for dose to members of the public resulting from dry fuel storage operations. The design of the storage facility is such that there are no liquid or gaseous effluents released to the environment from DFS and, therefore, no associated exposure pathways for liquids and gases requiring the collection and analysis of such sample media. As a result, only direct (including scattered) radiation from the DFS modules need to be monitored for integrated exposures in areas where doses to members of the public need to be limited.

At locations near the DFS where members of the public might be present (off-site areas near the site boundary and on-site special use locations, i.e., the Science and Nature Center, the new Fitness Center located in the High Rise office building east of the DFS facility and the Firing Range located on the west site boundary), TLDs were placed at least 1 year (4 quarterly measurements) prior to used fuel being placed into storage. The DFS received its first load of fuel for storage on July 28, 2008. A total of 6 fuel canisters were placed in the NUHOMS© Horizontal Storage Modules (HSM) on the DFS pad during 2008 with the last one being loaded on September 4, 2008. A second fuel transfer campaign was conducted during August and September, 2013, with an additional 8 fuel canisters placed into storage, and a third fuel transfer campaign during August – October 2017 with an additional 8 fuel canisters bringing the total to 22 canisters in storage.

The DFS radiological environmental monitoring stations are listed in Table 4.0-1. At the end of 2013, TLD location SB-35, which was located inside the old Fitness Center, and location TL-67 (first quarter of 2014), which was located outside the old Fitness Center south of the DFS, were removed from the program due to the relocation of the fitness center to the High Rise Office Building. TLD locations SB-32 and SB-33 now provide monitoring for the new Fitness Center location. The measurement locations with respect to the Seabrook site area are shown on Figure 4.0.1.

4.1 Direct Radiation from DFS

As with the plant operations TLD program described in Section 3.13, the DFS TLD exposure rates were normalized to a standard 91-day quarter. A summary of the 2021 data for the DFS REMP is shown in Table 4.1-1. Figures 4.1, 4.2 and 4.3 show the quarterly 2021 TLD trend lines for the control and indicator monitoring locations. Figures 4.4, 4.5 and 4.6 provide a comparison of long term trend lines (12 years) for the same control locations, site boundary and special use sites.

Overall, the direct radiation program showed no statistically significant indication of increased direct radiation above the variable background measured exposure rate in unrestricted areas. The 2021 annual mean of all indicator locations for the DFS was 17.5 mR/91-day quarter while the mean of all control locations was 17.7 mR/91-day quarter. There was no notable difference detected in the annual exposure rates in areas where members of the public could occupy (site boundary and inside special use locations) and the control locations. Starting in the 4th quarter of 2013, location TL-67 indicated a notable measurement increase in exposure rate following the expansion of fuel storage in the DFS facility in the third quarter of 2013. However, by late November 2013, the fitness center operations had been transferred from its original location south of the DFS to the High Rise Office Building east of the DFS, thereby ending use of the original fitness center facility and its parking lot by members of the public.

Starting in 2015, an additional analytical method was implemented to evaluate the TLD measurements. Using the method described in ANSI/HPS N13.37-2014, quarterly and annual baseline dose for each DFS TLD location was determined using appropriate statistical analytical methods considering data from 2004 through 2014. Quarterly and annual dose for 2021 was compared to baseline values to determine if an Investigation Level had been exceeded for evaluation of potential dose to a member of the public. An Investigation Level is considered to be exceeded under the following conditions:

Quarterly: If $M_Q > (B_Q + MDD_Q)$, then $F_Q = M_Q - B_Q$

Where:

M_Q is the normalized quarterly field measurement result
B_Q is the quarterly baseline background dose
MDD_Q is the quarterly minimum differential dose and
F_Q is the quarterly facility related dose

or: Annually: If $M_A > (B_A + MDD_A)$, then $F_A = M_A - B_A$

Where:

M_A is the sum of the four normalized quarterly measurement values
B_A is the annual baseline background dose
MDD_A is the annual minimum differential dose
F_A is the annual facility related dose

Table 4.1-2 summarizes the evaluation of the TLD measurements using the methodology described in ANSI/HPS N13.37-2014. As noted in Table 4.1-2, TLD location SB-33 (High-Rise Building 1st floor, Fitness Center) was found to have a calculated annual facility related dose of 23.3 mR when comparing the measured TLD value against the annual baseline values. However, as this is an onsite fitness center under Station control, an annual occupancy factor for this location of 0.0416 (1 hour per day x 7 days a week x 52 weeks per year / 8760 hours) can be applied. This results in an annual dose of 1.0 mR.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year are described in Section 5.

Figure 4.0.1
Dry Fuel Storage TLD Environmental Monitoring Locations

Table 4.0-1

Dry Fuel Storage (DFS) TLD Monitoring Locations

Site Designation Code	TLD Sample Location Description[3]	Distance From DFS Pad (km)	Direction From DFS Pad
TL-44	On-site, outside Science & Nature Center [1][2]	0.21	ESE
SB-36	On-site, inside Science & Nature Center	0.24	SE
SB-32	High-Rise Building, 3rd Floor[1]	0.23	E
SB-33	High-Rise Building, 1st Floor (new Fitness Center)[1]	0.23	E
TL-68	Nearby site boundary (firing range) to DFS	0.45	W
TL-69	Nearby site boundary (Rocks Rd) to DFS	0.47	W
TL-10	Site Boundary Fence [2]	0.77	S
TL-11	Site Boundary Fence [2]	0.52	SSW
TL-12	Site Boundary fence [2]	0.53	WSW
TL-13	Inside Site Boundary [2]	0.61	WNW
TL-14	Trailer Park, Seabrook [2]	0.94	NW
TL-36	Rt 97, Georgetown (Control) [2]	22	SSW
TL-37	Plaistow, NH (Control) [2]	21	WSW
TL-38	Hampstead, NH (Control) [2]	27	W
TL-39	Fremont, NH (Control) [2]	27	WNW
TL-40	Newmarket, NH (Control) [2]	22	NNW
TL-41	Portsmouth, NH (Control) [1][2]	22	NNE
TL-42	Ipswich, MA (Control) [1][2]	22	SSE

(1) This location is not part of the required DFS radiological monitoring program as defined in Table A.9.4-1 of the Seabrook ODCM.

(2) Shared environmental monitoring locations for both Seabrook Station REMP and DFS monitoring.

(3) TL-67 and SB-35 locations were removed in 2014 due to relocation of the Fitness Center to the High Rise office building.

Table 4.1-1

DFS Environmental TLD Measurements
Net Exposures in mR/Standard Quarter (91 days)

2021

Sta. No.	Description	1st Quarter Exp.	1st Quarter S.D.	2nd Quarter Exp.	2nd Quarter S.D.	3rd Quarter Exp.	3rd Quarter S.D.	4th Quarter Exp.	4th Quarter S.D.	Qtr Ave Exp.
TL-44	Outside Science & Nature C.(1)	13.9	0.8	16.5	0.9	13.9	0.7	18.0	1.0	15.6
SB-36	Inside Science & Nature C.	16.4	0.6	17.1	0.9	16.5	0.8	18.7	1.2	17.2
SB-32	High-Rise 3rd Floor (1)	14.0	0.6	13.6	0.7	13.9	0.7	16.6	2.0	14.5
SB-33	High-Rise 1st Fl.(Fitness Cntr)(1)	22.8	0.7	22.3	0.9	22.4	0.8	24.9	1.6	23.1
TL-68	Nearby Site Boundary to DFS	17.6	1.2	18.1	0.8	17.7	0.8	19.4	0.9	18.2
TL-69	Nearby Site Boundary to DFS	14.2	0.8	14.5	0.7	14.1	1.0	16.3	0.7	14.8
TL-10	Site Boundary Fence (2)	14.3	0.7	16.7	0.6	15.1	0.7	18.5	0.9	16.2
TL-11	Site Boundary Fence (2)	16.5	0.8	19.0	0.7	17.4	0.9	21.0	0.8	18.5
TL-12	Site Boundary Fence (2)	17.4	0.7	19.1	0.9	17.8	0.8	20.0	0.9	18.6
TL-13	Inside Site Boundary (2)	17.7	1.1	19.6	0.9	18.0	0.8	20.6	0.9	19.0
TL-14	Trailer Park Seabrook (2)	15.8	0.7	16.6	0.8	15.5	0.7	17.8	1.0	16.4
TL-36	Rt 97, Georgetown (control)(2)	15.5	0.7	15.3	0.8	15.1	0.7	16.3	0.8	15.6
TL-37	Plaistow, NH (Control)(2)	17.3	0.9	18.2	0.8	18.4	1.1	19.8	1.0	18.4
TL-38	Hampstead, NH (Control)(2)	18.6	1.1	18.4	0.6	18.3	1.1	20.1	0.9	18.9
TL-39	Fremont, NH (Control)(2)	20.8	0.9	21.3	0.6	20.1	1.1	22.7	0.9	21.2
TL-40	Newmarket, NH (Control)(2)	16.1	0.8	17.5	0.5	17.7	0.9	19.3	0.9	17.7
TL-41	Portsmouth, NH (Control)(1)(2)	16.3	0.7	16.5	0.8	16.3	1.0	17.5	0.9	16.7
TL-42	Ipswich, MA (Control)(1)(2)	15.0	0.6	15.1	0.5	14.9	0.7	16.6	0.8	15.4
	Mean of Indicators	16.4		17.6		16.6		19.3		17.5
	Mean of Controls	17.1		17.5		17.3		18.9		17.7

(1) This location is not part of the DFS required program defined by the ODCM.

(2) Shared environmental monitoring locations for both plant REMP and DFS monitoring.

Table 4.1-2

DFS Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

		Quarterly Ave. Baseline, B_Q	2021 Quarterly Monitoring Data, M_Q (mR/qtr)				Quarterly Facility Dose $F_Q = M_Q - (B_Q+MDD_Q)$				Annual Baseline, B_A	2021 Annual TLD Data, M_A	Annual Facility Dose $F_A = M_A - (B_A+MDD_A)$
		mR	1	2	3	4	1	2	3	4	mR	mR	
TL-44	On-site, outside Science & Nature Center	14.8	13.9	16.5	13.9	18.0	ND	ND	ND	ND	59.0	62.3	ND
SB-36	On-site, inside Science & Nature Center	16.2	16.4	17.1	16.5	18.7	ND	ND	ND	ND	64.7	68.6	ND
SB-32	High-Rise Building, 3rd floor	14.0	14.0	13.6	13.9	16.6	ND	ND	ND	ND	55.7	58.1	ND
SB-33	High-Rise Building 1st floor, Fitness Center	17.5	22.8	22.3	22.4	24.9	ND	ND	ND	ND	69.2	92.5	23.3[(1)]
TL-68	Nearby site boundary (firing Range)	17.7	17.6	18.1	17.7	19.4	ND	ND	ND	ND	70.8	72.8	ND
TL-69	Nearby site boundary (Rocks Rd)	14.6	14.2	14.5	14.1	16.3	ND	ND	ND	ND	58.2	59.0	ND
TL-10	Site Boundary	17.2	14.3	16.7	15.1	18.5	ND	ND	ND	ND	68.7	64.7	ND
TL-11	Site Boundary	17.5	16.5	19.0	17.4	21.0	ND	ND	ND	ND	69.9	73.9	ND
TL-12	Site Boundary	18.2	17.4	19.1	17.8	20.0	ND	ND	ND	ND	72.6	74.2	ND
TL-13	Inside Site Boundary	19.2	17.7	19.6	18.0	20.6	ND	ND	ND	ND	77.0	76.0	ND
TL-14	Trailer Park	15.9	15.8	16.6	15.5	17.8	ND	ND	ND	ND	63.5	65.8	ND
TL-36	Route 97(Control)	15.4	15.5	15.3	15.1	16.3	ND	ND	ND	ND	61.9	62.2	ND
TL-37	Plaistow, NH (Control)	18.0	17.3	18.2	18.4	19.8	ND	ND	ND	ND	72.0	73.8	ND
TL-38	Hampstead, NH (Control)	19.8	18.6	18.4	18.3	20.1	ND	ND	ND	ND	79.3	75.4	ND
TL-39	Fremont, NH (Control)	21.3	20.8	21.3	20.1	22.7	ND	ND	ND	ND	85.2	84.8	ND
TL-40	Newmarket, NH (Control)	16.7	16.1	17.5	17.7	19.3	ND	ND	ND	ND	66.9	70.6	ND
TL-41	Portsmouth, NH (Control)	16.9	16.3	16.5	16.3	17.5	ND	ND	ND	ND	67.6	66.6	ND
TL-42	Ipswich, MA (Control)	14.3	15.0	15.1	14.9	16.6	ND	ND	ND	ND	57.2	61.6	ND

Table 4.1-2 (cont'd)

DFS Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

MDD_Q = 4.48 = minimum differential exposure, quarterly, 3 times 90th percentile S_Q determined from analysis in mR.

MDD_A = 10.17 = minimum differential exposure, annual, 3 times 90th percentile S_A determined from analysis in mR.

B_Q = Quarterly baseline exposure (mR).

M_Q = location's 91 day standard quarterly exposure (mR).

L_Q = Quarterly Investigative Level exposure (mR).

B_A = Quarterly baseline background average exposure (mR).
M_A = Annual monitoring data, determined by summing the quarterly data over all four quarters (mR).

L_A = Annual Investigative Level exposure (mR).

ND = Facility contribution to exposure "Not Detected"

[1] Note that this location is a fitness center and is not occupied full time. Applying an annual occupancy factor for this location of 0.0416 (1 hour per day x 7 days a week x 52 weeks per year / 8760 hours), results in an annual dose of 1.0 mR.

FIGURE 4.1

DFS CONTROL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

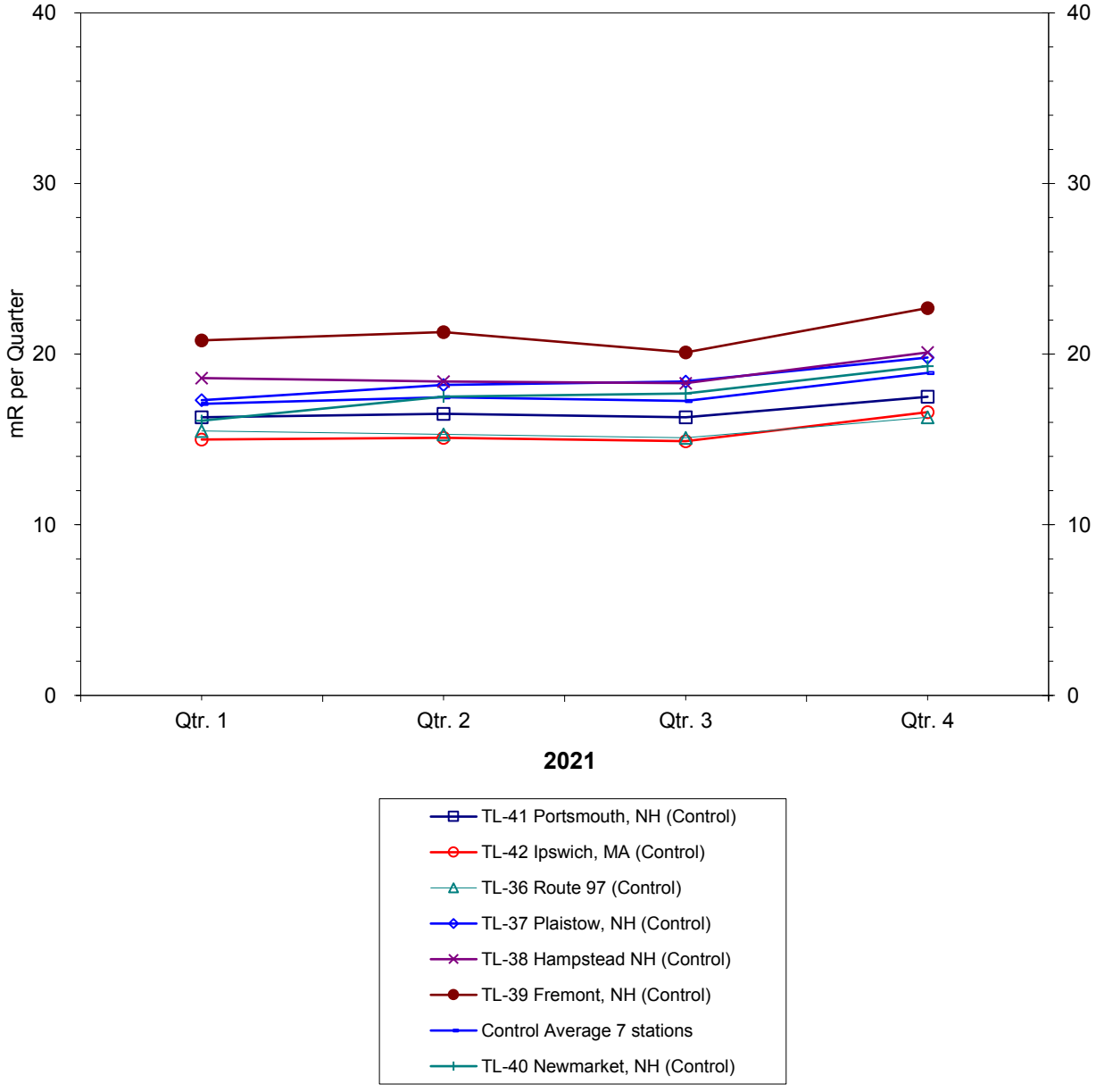


FIGURE 4.2

DFS ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

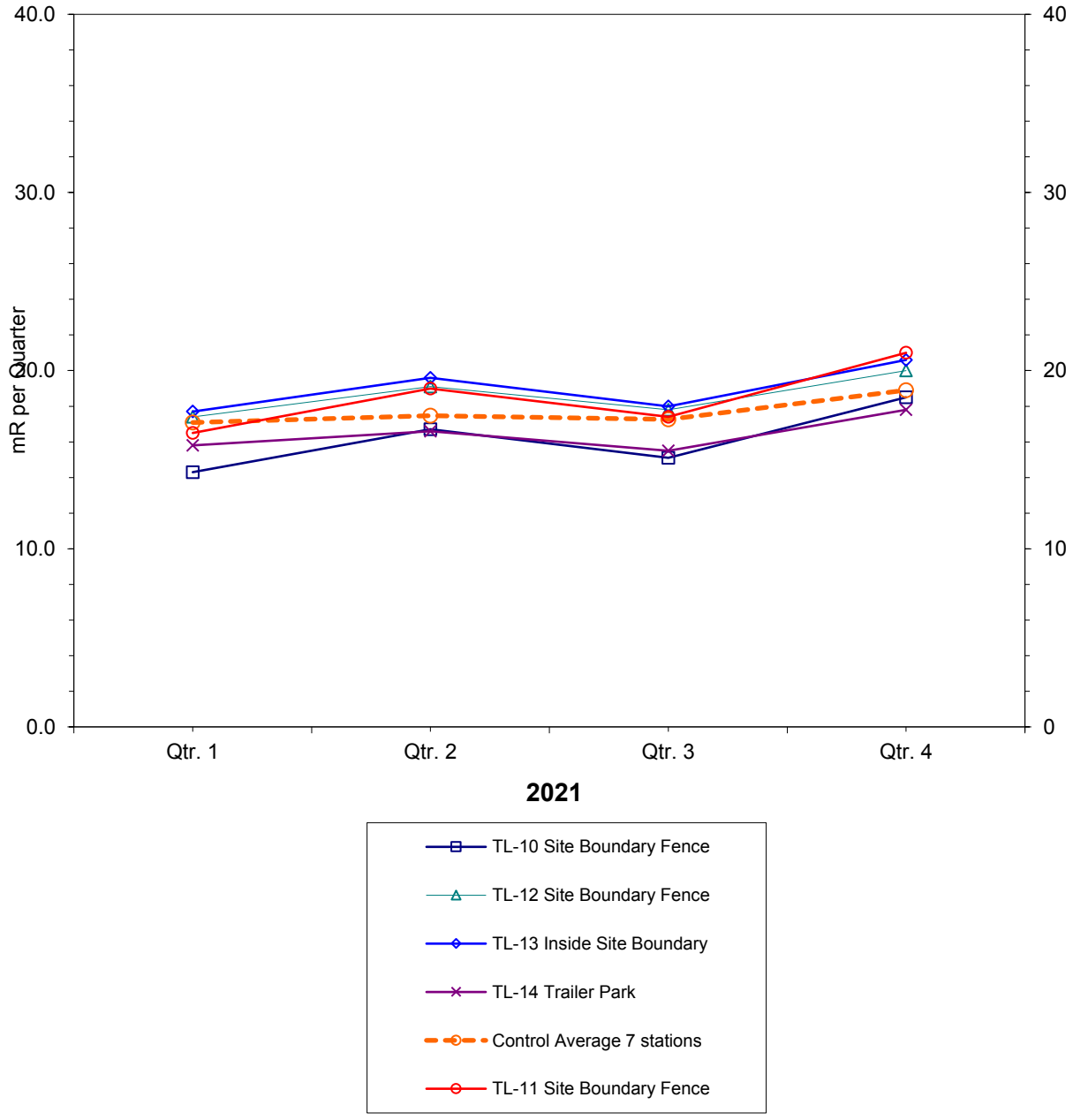


FIGURE 4.3

DFS ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

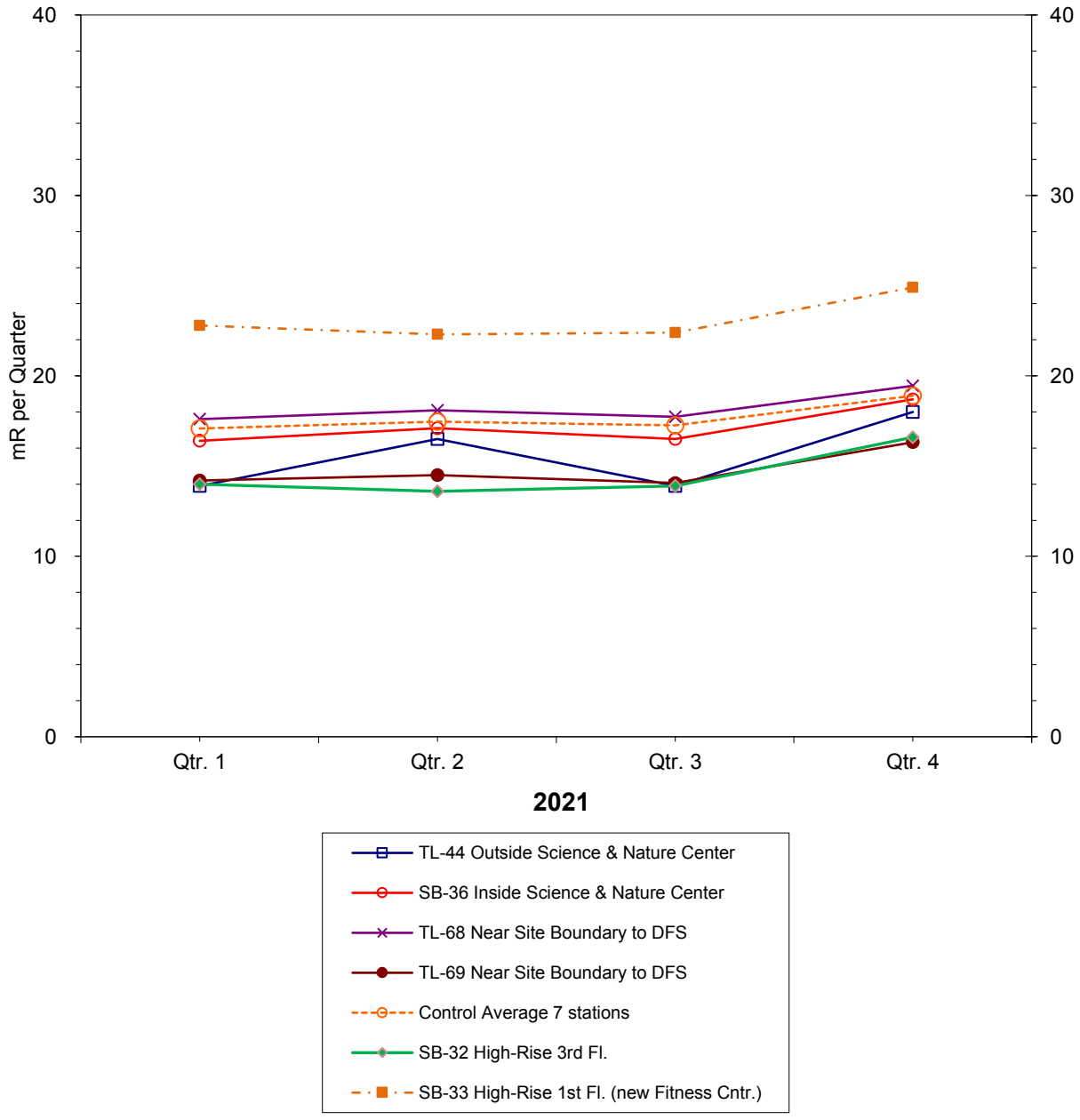


FIGURE 4.4

DFS CONTROL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

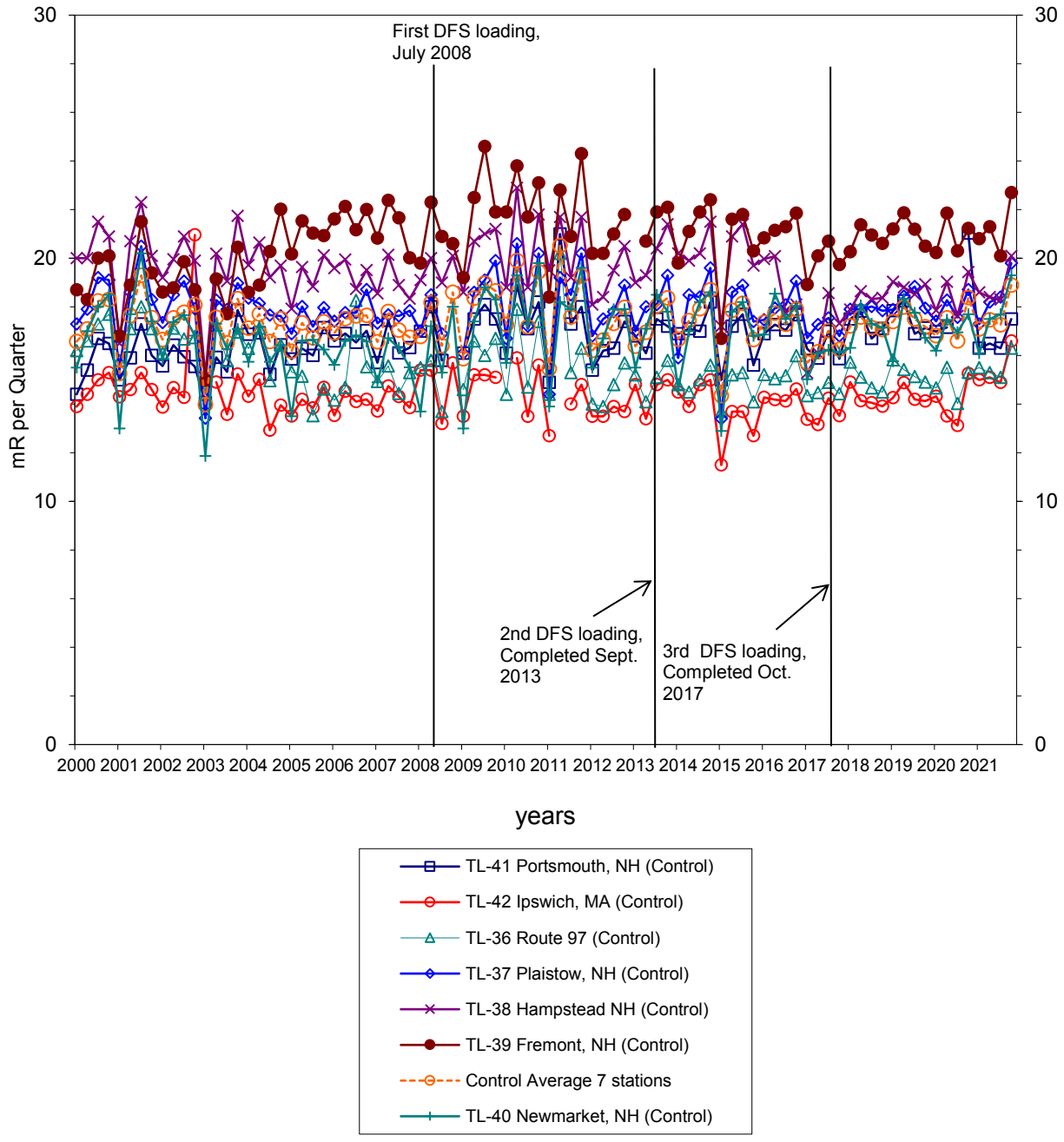


FIGURE 4.5

DFS RADIATION MEASUREMENTS TRENDS (USING TLDs)
SEABROOK STATION

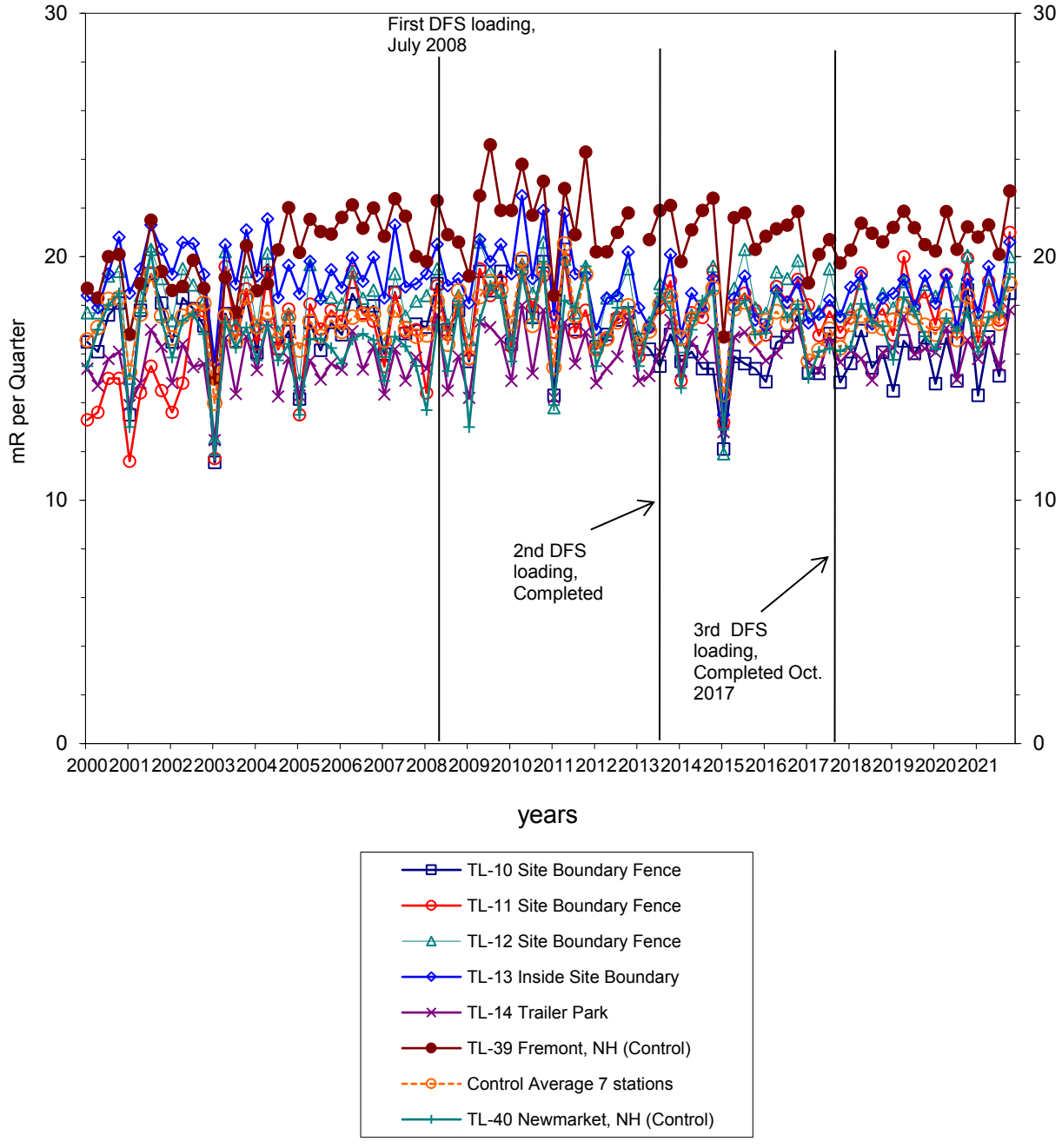
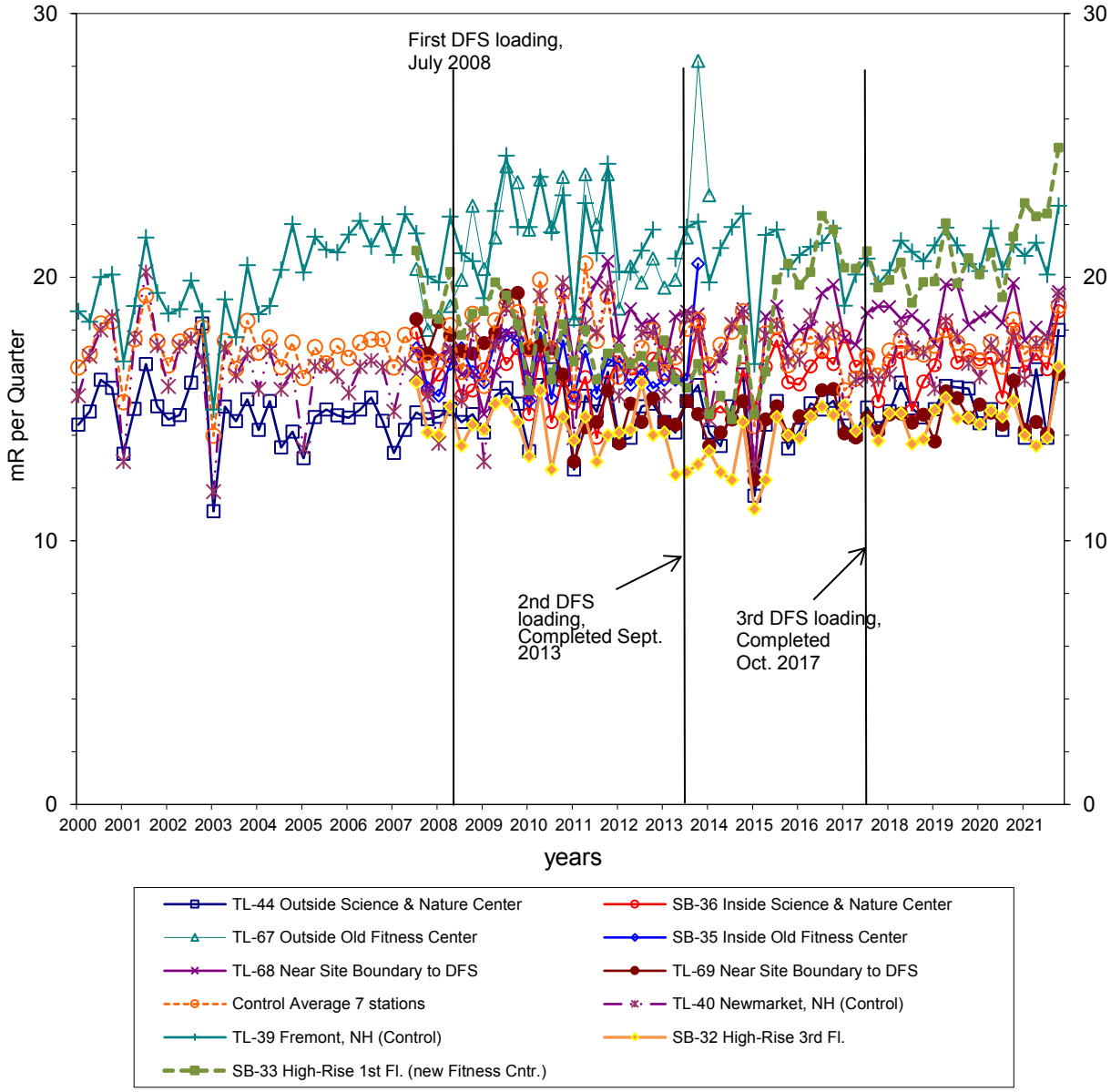


FIGURE 4.6

DFS RADIATION MEASUREMENTS TRENDS (USING TLDs)
SEABROOK STATION



5.0 Program Deviations and Reporting

5.1 Sampling Program Deviations

Table A.9.1-1 of the Offsite Dose Calculation Manual (ODCM) allows for deviations in the REMP sampling schedule "if specimens are unobtainable due to circumstances such as hazardous conditions, seasonal unavailability and malfunction of automatic sampling equipment." All deviations from the sampling schedule shall be documented each year in the Radiological Environmental Operating Report. The deviations for 2021 are as follows:

- On February 17, 2021, the REMP air sampling stations in Exeter/Hampton (AP/CF-08), the Rock Pile (AP/CF-03), and Barge Landing (AP/CF-01) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02384329 was written to document and track this issue.
- On March 2, 2021, the REMP air sampling stations in Exeter/Hampton (AP/CF-08), and Barge Landing (AP/CF-01) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02385673 was written to document and track this issue.
- The REMP milk sample was not obtained for February due to difficulty obtaining formaldehyde from the manufacturer. The formaldehyde was ordered in January, but the package was damaged during delivery and had to be reordered. AR 02385897 was written to document and track this issue.
- On May 15, 2021, the REMP air sampling station in the plateyard (AP/CF-04) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02393369 was written to document and track this issue.
- On May 28, 2021, the REMP air sampling stations in Exeter/Hampton (AP/CF-08), the Rock Pile (AP/CF-03), and Barge Landing (AP/CF-01) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02394442 was written to document and track this issue.
- On July 23, 2021, the REMP air sampling station in the plateyard (AP/CF-04) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02399303 was written to document and track this issue.
- On September 18, 2021, the REMP air sampler station at the Hampton Marina (AP/CF-02) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02404533 was written to document and track this issue.
- The third quarter TLD TL-25 (Elm Street Amesbury, MA) was found to be missing. AR 02405925 was written to document and track this issue.

5.2 Comparison of Achieved LLDs with Requirements

Table A.9.1-2 of the ODCM indicates the required Lower Limits of Detection (LLDs) for environmental sample analyses. (This table is duplicated in Table 5.2-1 of this report.) Occasionally an LLD for short-lived radionuclides is not achieved due to low sample volume or delays between sample collection and time of analysis. In such cases, ODCM Table A.9.1-2 requires a discussion of the event in the annual Radiological Environmental Operating Report.

For each analysis having an LLD requirement in ODCM Table A.9.1-2, the *a posteriori* (after the fact) Minimum Detectable Concentration (MDC) calculated for that analysis was compared with the required LLD. During 2021, 1422 analyses had an LLD requirement listed in Table 5.2-1, and in all cases except four (one missed LLD for I-131 in milk, three missed LLDs for Ba-140 in surface water), the LLD requirements were met.

For the missed LLDs, the following explanations are provided:

- LSN 550014001 (missed LLD for I-131 in milk) – Due to the short half-life of the isotope being analyzed.
- LSN 565202001 and 565202002 (missed LLD for Ba-140 in surface water) - Due to short half-life of the isotope being analyzed.
- LSN 548321002 (missed LLD for Ba-140 in surface water) - Due to short half-life of the isotope being analyzed.

The issue has been added into the laboratory NCR system for communication within the lab and process improvement.

5.3 Comparison of Results against Reporting Levels

Seabrook Station ODCM Section 10.1 requires the notification of the NRC by special report within 30 days of receipt from the environmental laboratory whenever a Reporting Level in Table 5.3-1 is exceeded. Reporting Levels are the environmental concentrations that relate to the ALARA design dose objectives of 10 CFR 50, Appendix I. It should be noted that environmental concentrations are averaged over calendar quarters for the purposes of this comparison, and that Reporting Levels apply only to measured levels of radioactivity due to plant effluents. During 2021, no Reporting Levels were exceeded.

Table 5.2-1

DETECTION CAPABILITIES FOR ENVIRONMENTAL SAMPLE ANALYSIS[a]

Lower Limit of Detection (LLD)

Analysis	Water (pCi/kg)	Airborne Particulate or Gas (pCi/m^3)	Fish and Invertebrates (pCi/kg, wet)	Milk (pCi/kg)	Food Products (pCi/kg, wet)	Sediment (pCi/kg, dry)
Gross Beta	4	0.01				
H-3	3,000					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-Nb-95	15[c]					
I-131	15	0.07		1	60[b]	
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15[c]			15		

a. Reference Seabrook Station ODCM, Table A.9.1-2 for clarifications.

b. Broad leaf vegetation only.

c. Parent only.

Table 5.3-1

REPORTING LEVELS FOR RADIOACTIVITY CONCENTRATIONS IN ENVIRONMENTAL SAMPLES[a]

Analysis	Water (pCi/kg)	Airborne Particulate or Gas (pCi/m^3)	Fish and Invertebrates (pCi/kg, wet)	Milk (pCi/kg)	Food Products (pCi/kg, wet)
H-3	30,000				
Mn-54	1,000		30,000		
Fe-59	400		10,000		
Co-58	1,000		30,000		
Co-60	300		10,000		
Zn-65	300		20,000		
Zr-Nb-95	400				
I-131	100	0.9		3	100[b]
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200			300	

a. Reference Seabrook Station ODCM Table A.9.1-3 for clarifications.
b. Broad leaf vegetation only.

6.0 QUALITY ASSURANCE PROGRAM

6.1 GEL Laboratories QA

GEL's primary goals are to ensure that all measurement data generated are scientifically and legally defensible, of known and acceptable quality per the data quality objectives (DQOs), and thoroughly documented to provide sound support for environmental decisions. In addition, GEL continues to ensure compliance with all contractual requirements, environmental standards, and regulations established by local, state and federal authorities.

GEL administers the QA program in accordance with their Quality Assurance Plan, GL-QS-B-001. The Quality Systems include all quality assurance (QA) policies and quality control (QC) procedures necessary to plan, implement, and assess the work that GEL performs. GEL's QA Program establishes a quality management system (QMS) that governs all of the activities of the organization.

The results of GEL's assessment of their laboratory activities listed in this section entails their quality assurance program for the proficiency testing (PT) and environmental monitoring aspects of GEL for 2021. GEL's QA Program is designed to monitor the quality of analytical processing associated with environmental, radiobioassay, effluent (10 CFR Part 50), and waste (10 CFR Part 61) sample analysis.

This summary was extracted from GEL Laboratories report entitled "2021 Annual Quality Assurance Report for the Radiological Environmental Monitoring Program (REMP)", dated March 1, 2022, and includes:

- Intra-laboratory QC results analyzed during 2021.
- Inter-laboratory QC results analyzed during 2021 where known values were available.

Quality Assurance Programs for Inter-laboratory, Intra-laboratory and Third Party Cross Check

In addition to internal and client audits, GEL's laboratory participates in annual performance evaluation studies conducted by independent providers. GEL routinely participates in the following types of performance audits:

- Proficiency testing and other inter-laboratory comparisons
- Performance requirements necessary to retain Certifications
- Evaluation of recoveries of certified reference and in-house secondary reference materials using statistical process control data.
- Evaluation of relative percent difference between measurements through statistical process control (SPC) data.

GEL also participate in a number of proficiency testing programs for federal and state agencies and as required by contracts. It is GEL's policy that no proficiency evaluation samples be analyzed in any special manner. GEL's annual performance evaluation participation generally includes a combination of studies that support the following:

- US Environmental Protection Agency (EPA) Discharge Monitoring Report, Quality Assurance Program (DMR-QA) - An annual national program sponsored by the EPA for laboratories engaged in the analysis of samples associated with the NPDES monitoring program. Participation is mandatory for all holders of NPDES permits. The permit holder must analyze for all of the parameters listed on the discharge permit. Parameters include general chemistry, metals, BOD/COD, oil and grease, ammonia, nitrates, etc.

- Department of Energy (DOE) Mixed Analyte Performance Evaluation Program (MAPEP) - A semiannual program developed by DOE in support of DOE contractors performing waste

analyses. Participation is required for all laboratories that perform environmental analytical measurements in support of environmental management activities. This program includes radioactive isotopes in water, soil, vegetation and air filters.

- ERA's MRAD-Multimedia Radiochemistry Proficiency test program - This program is for labs seeking certification for radionuclides in wastewater and solid waste. The program is conducted in strict compliance with USEPA National Standards for Water Proficiency study.

- ERA's InterLab RadChem Proficiency Testing Program for radiological analyses - This program completes the process of replacing the USEPA EMSL-LV Nuclear Radiation Assessment Division program discontinued in 1998. Laboratories seeking certification for radionuclide analysis in drinking water also use the study. This program is conducted in strict compliance with the USEPA National Standards for Water Proficiency Testing Studies. This program encompasses Uranium by EPA method 200.8 (for drinking water certification in Utah/Primary NELAP), gamma emitters, Gross Alpha/Beta, Iodine-131, naturally-occurring radioactive isotopes, Strontium-89/90, and Tritium.

- ERA's Water Pollution (WP) biannual program for waste methodologies, which includes parameters for both organic and inorganic analytes.

- ERA's Water Supply (WS) biannual program for drinking water methodologies, which includes parameters for organic and inorganic analytes.

- Environmental Cross-Check Program administered by Eckert & Ziegler Analytics, Inc. - This program encompasses radionuclides in water, soil, milk, naturally-occurring radioactive isotopes in soil and air filters.

GEL procures single-blind performance evaluation samples from Eckert & Ziegler Analytics to verify the analysis of sample matrices processed at GEL. Samples are received on a quarterly basis. GEL's Third-Party Cross-Check Program provides environmental matrices encountered in a typical nuclear utility REMP. The Third-Party Cross-Check Program is intended to meet or exceed the inter-laboratory comparison program requirements discussed in NRC Regulatory Guide 4.15. Once performance evaluation samples have been prepared in accordance with the instructions provided by the program test (PT) provider, samples are managed and analyzed in the same manner as environmental samples from GEL's clients.

Quality Assurance Program for Internal and External Audits

During each annual reporting period, at least one internal assessment of each area of the laboratory is conducted in accordance with the pre-established schedule from Standard Operating Procedure for the Conduct of Quality Audits, GL-QS-E-001. The annual internal audit plan is reviewed for adequacy and includes the scheduled frequency and scope of quality control actions necessary to GEL's QA program. Internal audits are conducted at least annually in accordance with a schedule approved by the Quality Systems Director. Supplier audits are contingent upon the categorization of the supplier, and may or may not be conducted prior to the use of a supplier or subcontractor. Type I suppliers and subcontractors, regardless of how they were initially qualified, are re-evaluated at least once every three years.

In addition, prospective customers audit GEL during pre-contract audits. GEL hosts several external audits each year for both our clients and other programs. These programs include environmental monitoring, waste characterization, and radiobioassay. The following list of programs may audit GEL at least annually or up to every three years depending on the program.

- TNI, The NELAC Institute, National Environmental Laboratory Accreditation Program (NELAP)
- DOECAP, U.S. Department of Energy Consolidated Audit Program
- DOELAP, U.S. Department of Energy Laboratory Accreditation Program

- DOE QSAS, U.S. Department of Energy, Quality Systems for Analytical Services
- ISO/IEC 17025:2005
- A2LA, American Association for Laboratory Accreditation
- DOD ELAP, US Department of Defense Environmental Accreditation Program
- NUPIC, Nuclear Procurement Issues Committee
- South Carolina Department of Health and Environmental Control (SC DHEC)

The annual radiochemistry laboratory internal audit (20-RAD-001) was conducted in June, 2021. There were no findings or observations, and four recommendations for improvements from this assessment.

Performance Evaluation Acceptance Criteria for Environmental Sample Analysis

GEL utilized an acceptance protocol based upon two performance models. For those inter-laboratory programs that already have established performance criteria for bias (i.e., MAPEP, and ERA/ELAP), GEL will utilize the criteria for the specific program. For intra-laboratory or third party quality control programs that do not have a specific acceptance criteria (i.e. the Eckert-Ziegler Analytics Environmental Cross-check Program), results will be evaluated in accordance with GEL's internal acceptance criteria.

Performance Evaluation Samples

Performance Evaluation (PE) results and internal quality control sample results are evaluated in accordance with GEL acceptance criteria. The first criterion concerns bias, which is defined as the deviation of any one result from the known value. The second criterion concerns precision, which deals with the ability of the measurement to be replicated by comparison of an individual result with the mean of all results for a given sample set.

GEL also evaluates its analytical performance on a regular basis through statistical process control (SPC) acceptance criteria. Where feasible, this criterion is applied to both measures of precision and accuracy and is specific to sample matrix. GEL establishes environmental process control limits at least annually.

For Radiochemistry analysis, quality control evaluation is based on static limits rather than those that are statistically derived. Current process control limits are maintained in GEL's AlphaLIMS. GEL also measures precision with matrix duplicates and/or matrix spike duplicates. The upper and lower control limits (UCL and LCL respectively) for precision are plus or minus three times the standard deviation from the mean of a series of relative percent differences. The static precision criteria for radiochemical analyses are 0 - 20%, for activity levels exceeding the contract required detection limit (CRDL).

Quality Control Program for Environmental Sample Analysis

GEL's internal QA Program is designed to include QC functions such as instrumentation calibration checks (to insure proper instrument response), blank samples, instrumentation backgrounds, duplicates, as well as overall staff qualification analyses and statistical process controls. Both quality control and qualification analyses samples are used to be as similar as the matrix type of those samples submitted for analysis by the various laboratory clients. These performance test samples (or performance evaluation samples) are either actual samples submitted in duplicate in order to evaluate the precision of laboratory measurements, or fortified blank samples, which have been given a known quantity of a radioisotope that is in the interest to GEL's clients.

Accuracy (or Bias) is measured through laboratory control samples and/or matrix spikes, as well as surrogates and internal standards. The UCLs and LCLs for accuracy are plus or minus three times the standard deviation from the mean of a series of recoveries. The static limit for radiochemical analyses is 75 - 125%. Specific instructions for out-of-control situations are provided in the applicable analytical SOP.

GEL's Laboratory Control Standard (LCS) is an aliquot of reagent water or other blank matrix to which known quantities of the method analytes are added in the laboratory. The LCS is analyzed exactly like a

sample, and its purpose is to determine whether the methodology is in control, and whether the laboratory is capable of making accurate and precise measurements. Some methods may refer to these samples as Laboratory Fortified Blanks (LFB). The requirement for recovery is between 75 and 125% for radiological analyses excluding drinking water matrix.

$$\text{Bias (\%)} = \frac{\text{(observed concentration)}}{\text{(known concentration)}} * 100\ \%$$

Precision is a data quality indicator of the agreement between measurements of the same property, obtained under similar conditions, and how well they conform to themselves. Precision is usually expressed as standard deviation, variance or range in either absolute or relative (percentage) terms.

GEL's laboratory duplicate (DUP or LCSD) is an aliquot of a sample taken from the same container and processed in the same manner under identical laboratory conditions. The aliquot is analyzed independently from the parent sample and the results are compared to measure precision and accuracy.

If a sample duplicate is analyzed, it will be reported as Relative Percent Difference (RPD). The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

$$\text{Difference (\%)} = \frac{\text{(high duplicate result – low duplicate result)}}{\text{(average of results)}} * 100\ \%$$

Summary of Data Results

During 2021, forty-five (45) radioisotopes associated with seven (7) matrix types were analyzed under GEL's Performance Evaluation program in participation with ERA, MAPEP, and Eckert & Ziegler Analytics. Matrix types were representative of client analyses performed during 2021. Of the four hundred thirty-three (433) total results reported, 96.5% (418 of 433) were found to be acceptable. The list below contains the type of matrix evaluated by GEL.

- Air Filter
- Cartridge
- Water
- Milk
- Soil
- Liquid
- Vegetation

A summary list of all Inter-laboratory radiological proficiency test results and their evaluation against their acceptance criteria is provided in Table 6.1-1. This list reflects GEL's participation in the MAPEP Monitoring Program, the ERA MRaD PT Program, the ERA PT Program, and the Eckert & Ziegler Analytics Environmental Cross-Check Program.

Summaries of GEL's Intra-laboratory test result for bias and precision by sample matrix are provided in Table 6.1-3 (REMP Related) and Table 6.1-4 (All Samples).

Summary of Participation in the Eckert & Ziegler Analytics Environmental Cross-Check Program

Eckert & Ziegler Analytics provided samples for one hundred thirty (89) individual environmental analyses. The accuracy of each result reported to Eckert & Ziegler Analytics, Inc. is measured by the ratio of GEL's result to the known value. All results fell within GEL's acceptance criteria (100%). Table 6.1-2 list the results specific to the Eckert & Ziegler Analytics sample provided in 2021. No corrective action reports were noted for these results.

Summary of Participation in the MAPEP Monitoring Program

MAPEP Series 44 and 45 were analyzed by the laboratory. Of the one hundred thirty (130) analyses, 96.1% (125 out of 130) of all results fell within the PT provider's acceptance criteria. Three isotope failures occurred in Series 44: Antimony, Cesium-134, and Strontium-90. Five isotope failures occurred in Series 45: Gross Alpha, Uranium-234, Neptunium-237, Radium-226, and Strontium-90.

For the corrective actions associated with MAPEP Series 44 and 45, refer to corrective actions CARR 210723-1339 and CARR 211216-1360, respectively (Table 6.1-5).

Summary of Participation in the ERA MRaD PT Program

The ERA MRad program provided samples (MRAD-34 and MRAD-35) for one hundred seventy-one (171) individual environmental analyses. One hundred sixty-six (166) of the 171 analyses fell within the PT provider's acceptance criteria (97.1%). Three isotope failures occurred in MRAD-34: Gross Alpha in air filter, Gross Alpha in water, and Iron-55 in water. Two isotope failures occurred in MRAD-35: Uranium-234 in air filter and Uranium-234 in water.

For the corrective actions associated with MRAD 34 and MRAD 35, refer to corrective actions CARR 210603-1329 and CARR 211215-1358, respectively (Table 6.1-5).

Summary of Participation in the ERA PT Program

The ERA program provided samples (RAD-124, RAD-125, RAD-126, RAD-127) for forty-three (43) individual environmental analyses. Of the 43 analyses, 88.4% (38 out of 43) of all results fell within the PT provider's acceptance criteria. Three isotope failures occurred in RAD-124: Radium-226, Radium-228, and Strontium-89 in water. One failure occurred in RAD-125: Radium-226 in water. One failure occurred in RAD-126: Strontium-90 in water.

For the corrective actions associated with RAD-124, RAD-125, and RAD-126, refer to corrective actions CARR 210311-1305, CARR 210524-1327 and CARR210830-1343, respectively (Table 6.1-5).

Corrective Action Request and Report (CARR)

There are two categories of corrective action at GEL. One is corrective action implemented at the analytical and data review level in accordance with the analytical standard operating procedures (SOP). The other is formal corrective action documented by the Quality Systems Team in accordance with GEL's standard operating procedure GL-QS-E-002. A formal corrective action is initiated when a nonconformance reoccurs or is so significant that permanent elimination or prevention of the problem is required. Formal corrective action investigations include root cause analysis.

GEL includes quality requirements in most analytical standard operating procedures to ensure that data are reported only if the quality control criteria are met or the quality control measures that did not meet the acceptance criteria are documented. A formal corrective action is implemented according to GEL's standard operating procedure GL-QS-E-002 for Conducting Corrective/Preventive Action and Identifying Opportunities for Improvement. Recording and documentation is performed following guidelines stated in GEL's standard operating procedure GL-QS-E-012 for Client NCR Database Operation.

Any employee at GEL can identify and report a nonconformance and request that corrective action be taken. Any GEL employee can participate on a corrective action team as requested by the QS team or Group Leaders. The steps for conducting corrective action are detailed in GEL's standard operating procedure GL-QS-E-002. In the event that correctness or validity of the laboratory's test results in doubt, the laboratory will take corrective action. If investigations show that the results have been impacted, affected clients will be informed of the issue in writing within five (5) calendar days of the discovery.

Table 6.1-5 provides the status of CARRs for radiological performance testing during 2021. GEL has determined that causes of the failures did not impact any data reported to its clients.

TABLE 6.1-1

2021 INTER-LAB RADIOLOGICAL PROFICIENCY TESTING RESULTS AND ACCEPTANCE CRITERIA

PT Provider	Quarter / Year	Analytical Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Barium-133	22.3	23.8	18.4 - 27.4	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Cesium-134	46.8	42.8	34.2 - 47.1	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Cesium-137	148	148	133 - 165	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Cesium-137	148	148	133 - 165	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Cobalt-60	36.7	34.6	30.8 - 40.8	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Zinc-65	68.2	61.6	54.6 - 75.0	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Gross Alpha	69.6	63.3	33.2 - 78.5	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Gross Beta	38.8	39.8	26.4 - 47.3	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Radium-226	8.42*	15.5	11.5 - 17.8	**Not Acceptable**
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Radium-228	19.5*	12.9	8.54 - 15.8	**Not Acceptable**
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Radium-228	14.6	12.9	8.54 - 15.8	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Uranium (Nat)	29.4	30.1	24.4 - 33.4	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Uranium (Nat) mass	44.6	43.9	35.5 - 48.7	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Tritium	2000	2120	1750 - 2350	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Tritium	2020	2120	1750 - 2350	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Strontium-89	74.6	61.3	49.4 - 69.2	**Not Acceptable**
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Strontium-89	65.7	61.3	49.4 - 69.2	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Strontium-90	32.5	40.6	29.9 - 46.7	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Strontium-90	38.2	40.6	29.9 - 46.7	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Iodine-131	30.2	27.9	23.2 - 32.8	Acceptable
ERA	1st/2021	03/02/21	RAD-124	Water	pCi/L	Iodine-131	31.7	27.9	23.2 - 32.8	Acceptable
EZA	1st/2021	03/11/21	E13356	Cartridge	pCi	Iodine-131	9.34E+01	8.80E+01	1.06	Acceptable
EZA	1st/2021	03/11/21	E13357	Milk	pCi/L	Strontium-89	9.55E+01	8.71E+01	1.1	Acceptable
EZA	1st/2021	03/11/21	E13357	Milk	pCi/L	Strontium-90	1.14E+01	1.26E+01	0.9	Acceptable
EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Cerium-141	1.32E+02	1.25E+02	1.05	Acceptable
EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Cobalt-58	1.33E+02	1.28E+02	1.04	Acceptable
EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Cobalt-60	1.57E+02	1.54E+02	1.02	Acceptable
EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Chromium-51	2.33E+02	2.42E+02	0.96	Acceptable
EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Cesium-134	1.37E+02	1.51E+02	0.9	Acceptable
EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Cesium-137	1.12E+02	1.10E+02	1.02	Acceptable
EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Manganese-54	1.15E+02	1.12E+02	1.02	Acceptable
EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Iron-59	1.21E+02	1.09E+02	1.11	Acceptable

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EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Iodine-131	8.39E+01	8.69E+01	0.97	Acceptable
EZA	1st/2021	03/11/21	E13358	Milk	pCi/L	Zinc-65	2.38E+02	2.11E+02	1.13	Acceptable
EZA	1st/2021	03/11/21	E13359	Water	pCi/L	Cerium-141	1.26E+02	1.24E+02	1.02	Acceptable
EZA	1st/2021	03/11/21	E13359	Water	pCi/L	Cobalt-58	1.34E+02	1.26E+02	1.06	Acceptable
EZA	1st/2021	03/11/21	E13359	Water	pCi/L	Cobalt-60	1.54E+02	1.52E+02	1.01	Acceptable
EZA	1st/2021	03/11/21	E13359	Water	pCi/L	Cesium-134	1.35E+02	1.50E+02	0.9	Acceptable
EZA	1st/2021	03/11/21	E13359	Water	pCi/L	Cesium-137	1.15E+02	1.09E+02	1.06	Acceptable
EZA	1st/2021	03/11/21	E13359	Water	pCi/L	Iodine-131	9.64E+01	8.79E+01	1.1	Acceptable
EZA	1st/2021	03/11/21	E13359	Water	pCi/L	Iron-59	1.12E+02	1.08E+02	1.04	Acceptable
EZA	1st/2021	03/11/21	E13359	Water	pCi/L	Manganese-54	1.17E+02	1.11E+02	1.05	Acceptable
EZA	1st/2021	03/11/21	E13359	Water	pCi/L	Zinc-65	2.24E+02	2.08E+02	1.08	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Actinium-228	3260	3170	2090 - 3990	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Americium-241	1580	1620	875 - 2290	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Bismuth-212	3300	3280	939 - 4890	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Bismuth-214	1370	1380	662 - 2050	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Cesium-134	5380	5920	4050 - 7080	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Cesium-137	7580	7570	5720 - 9570	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Cobalt-60	4660	5060	3980 - 6250	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Lead-212	3830	3350	2340 - 4240	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Lead-212	3830	3350	2340 - 4240	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Lead-214	1760	1440	605 - 2260	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Manganese-54	<28.3	<1000	<1000	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Plutonium-238	1810	1930	963 - 2930	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Plutonium-239	1610	1720	937 - 2480	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Potassium-40	24400	24700	17000 - 29500	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Strontium-90	10200	9190	2860 - 14300	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Thorium-234	4870	4020	1520 - 6880	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Uranium-234	3650	4060	1900 - 5320	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Uranium-234	3740	4060	1900 - 5320	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Uranium-238	3480	4020	2210 - 5400	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Uranium-238	3320	4020	2210 - 5400	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Uranium-Total	7300	8260	4580 - 10700	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Uranium-Total	7060	8260	4580 - 10700	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	µg/kg	Uranium-Total (mass)	10400	12000	5420 - 16200	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Soil	µg/kg	Uranium-Total (mass)	9950	12000	5420 - 16200	Acceptable

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ERA	2nd/2021	5/25/2021	MRAD 34	Soil	pCi/kg	Zinc-65	7090	7040	5620 - 9600	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Americium-241	2210	2460	1520 - 3470	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Cesium-134	1920	2350	1560 - 3130	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Cesium-137	2590	2720	2090 - 3660	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Cobalt-60	1640	1610	1260 - 2100	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Curium-244	3260	3750	2110 - 4660	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Manganese-54	<26.8	<300	<300	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Plutonium-238	3450	3610	2500 - 4660	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Plutonium-239	1750	1820	1260 - 2300	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Potassium-40	36700	33300	25000 - 42200	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Strontium-90	986	1260	710 - 1640	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Strontium-90	986	1260	710 - 1640	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Uranium-234	1370	1420	998 - 1810	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Uranium-238	1380	1410	996 - 1760	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Uranium-Total	2830	2900	1850 - 3910	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	µg/kg	Uranium-Total (mass)	4150	4230	3250 - 5240	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/kg	Zinc-65	797	766	572 - 1140	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	veg	pCi/Filter	Americium-241	61.8	60.2	43.0 - 80.3	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Cesium-134	958	1030	668 - 1260	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Cesium-134	958	1030	668 - 1260	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Cesium-137	159	163	134 - 214	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Cesium-137	159	163	134 - 214	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Cobalt-60	1280	1220	1040 - 1550	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Iron-55	103	121	44.2 - 193	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Manganese-54	<6.46	<50.0	<50.0	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Plutonium-238	35.9	35.4	26.7 - 43.5	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Plutonium-239	20.1	20.5	15.3 - 24.7	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Strontium-90	181	189	120 - 257	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Uranium-234	24.1	25.5	18.9 - 29.9	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Uranium-234	26.4	25.5	18.9 - 29.9	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Uranium-238	24.6	25.3	19.1 - 30.2	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Uranium-238	23.5	25.3	19.1 - 30.2	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Uranium-Total	50	52	38.0 - 61.7	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Uranium-Total	49.9	52	38.0 - 61.7	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	µg/Filter	Uranium-Total (mass)	73.8	75.9	60.9 - 88.9	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	µg/Filter	Uranium-Total (mass)	70.5	75.9	60.9 - 88.9	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Zinc-65	840	771	632 - 1180	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Gross Alpha	391*	96.1	50.2 - 158	**Not Acceptable**

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ERA	2nd/2021	5/25/2021	MRAD 34	Filter	pCi/Filter	Gross Beta	71.5	62.6	38.0 - 94.6	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Americium-241	160	157	108 - 201	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Cesium-134	1550	1610	1220 - 1770	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Cesium-137	595	578	495 - 657	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Cobalt-60	2310	2180	1880 - 2500	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Cobalt-60	2310	2180	1880 - 2500	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Cobalt-60	2310	2180	1880 - 2500	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Iron-55	494	275	162 - 400	**Not Acceptable**
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Manganese-54	<6.01	<100	<100	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Plutonium-238	115	171	103 - 222	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Plutonium-239	95.2	142	87.9 - 175	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Strontium-90	736	671	483 - 829	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Uranium-234	140	160	122 - 183	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Uranium-234	162	160	122 - 183	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Uranium-234	152	160	122 - 183	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Uranium-238	146	158	122 - 186	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Uranium-238	158	158	122 - 186	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Uranium-238	145	158	122 - 186	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Uranium-Total	292	325	254 - 370	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Uranium-Total	297	325	254 - 370	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	µg/L	Uranium-Total (mass)	436	474	384 - 538	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	µg/L	Uranium-Total (mass)	433	474	384 - 538	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Zinc-65	1900	1720	1530 - 2170	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Gross Alpha	87.8	62.2	22.7 - 85.8	**Not Acceptable**
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Gross Beta	73.7	103	51.5 - 142	Acceptable
ERA	2nd/2021	5/25/2021	MRAD 34	Water	pCi/L	Tritium	24900	22800	17200 - 27800	Acceptable
ERA	2nd/2021	5/25/2021	RAD 125	Water	pCi/L	Radium-226	14.2	19.3	14.3 - 22.0	**Not Acceptable**
ERA	2nd/2021	5/25/2021	RAD 125	Water	pCi/L	Radium-228	9.98	10.3	6.71 - 12.8	Acceptable
ERA	2nd/2021	5/25/2021	RAD 125	Water	pCi/L	Strontium-89	59.3	63.5	51.4 - 71.5	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-GrF44	Filter	Bq/smpl	Gross Alpha	0.864	1.77	0.53-3.01	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-GrF44	Filter	Bq/smpl	Gross Beta	0.639	0.649	0.325-0.974	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-GrF44	Water	Bq/L	Gross Alpha	0.782	0.87	0.26-1.48	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-GrF44	Water	Bq/L	Gross Beta	2.40	2.50	1.25-3.75	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Americium-241	89.6	88	62-114	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Cesium-134	2.92		False pos. test	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Cesium-137	1590	1550	1085-2015	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Cobalt-57	1010	920	644-1196	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Cobalt-60	1320	1370	959-1781	Acceptable

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MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Iron-55	1150	910	637-1183	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Manganese-54	1.84		False pos. test	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Nickel-63	597	689	482-896	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Plutonium-238	51.2	49.1	34.4-63.8	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Plutonium-239/240	-0.819		False pos. test	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Potassium-40	618	618	433-803	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Strontium-90	313	272	190-354	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Technetium-99	576	638	447-829	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	U-234/233	57.1	59	41-77	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Uranium-238	194	208	146-270	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaS44	Soil	Bq/Kg	Zinc-65	627	604	423-785	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Americium-241	0.0145		False pos. test	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Cesium-134	10.6	11.5	8.1-15.0	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Cesium-137	8.54	7.9	5.5-10.3	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Cobalt-57	12.2	11.4	8.0-14.8	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Cobalt-60	0.146		False pos. test	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Hydrogen-3	2.27		False pos. test	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Iron-55	27.1	26.9	18.8-35.0	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Manganese-54	16.7	15.5	10.9-20.2	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Nickel-63	10.4	8.2	5.7-10.7	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Plutonium-238	0.515	0.577	0.404-0.750	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Plutonium-239/240	0.564	0.649	0.454-0.844	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Potassium-40	-0.886		False pos. test	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Radium-226	0.538	0.632	0.442-0.822	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Strontium-90	4.95	4.47	3.13-5.81	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Technetium-99	3.69	4.01	2.81-5.21	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Uranium-234/233	0.884	0.85	0.60-1.11	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Uranium-238	0.913	0.86	0.60-1.12	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-MaW44	Water	Bq/L	Zinc-65	11.6	10.5	7.4-13.7	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	ug/smpl	Uranium-235	0.0366	0.0353	0.0247-0.0459	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	ug/smpl	Uranium-238	5.19	5.03	3.52-6.54	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	ug/smpl	Uranium-Total	5.22	5.07	3.55-6.59	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Americium-241	0.0385	0.037	0.026-0.048	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Cesium-134	2.12	2.14	1.50-2.78	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Cesium-137	-0.0168		False pos. test	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Cobalt-57	0.74	0.686	0.480-0.892	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Cobalt-60	0.0325		False pos. test	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Manganese-54	0.368	0.312	0.218-0.406	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Plutonium-238	0.0207	0.0228	0.0160-0.0296	Acceptable

PT Provider	Quarter / Year	Analytical Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Plutonium-239/240	0.0417	0.0453	0.0317-0.0589	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Strontium-90	0.89	0.749	0.524-0.974	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Uranium-234/233	0.063	0.06	0.04-0.08	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Uranium-238	0.0617	0.063	0.044-0.082	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdF44	Filter	Bq/smpl	Zinc-65	0.457	0.352	0.246-0.458	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Americium-241	0.0605	0.0586	0.0410-0.0762	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Cesium-134	2.51	3.6	2.52-4.68	**Not Acceptable**
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Cesium-137	3.75	4.69	3.28-6.10	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Cobalt-57	3.73	5.05	3.54-6.57	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Cobalt-60	2.36	2.99	2.09-3.89	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Manganese-54	4.13	5.25	3.68-6.83	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Plutonium-238	0.0467	0.0446	0.0312-0.058	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Plutonium-239/240	0.0912	0.0912	0.0645-0.1197	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Strontium-90	0.444	0.673	0.471-0.875	**Not Acceptable**
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Uranium-234/233	0.136	0.138	0.097-0.179	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Uranium-238	0.143	0.143	0.100-0.186	Acceptable
MAPEP	2nd/2021	06/22/21	MAPEP-21-RdV44	veg	Bq/smpl	Zinc-65	-0.0042		False pos. test	Acceptable
EZA	2nd/2021	08/06/21	E13360	Cartridge	pCi	Iodine-131	9.99E+01	9.08E+01	1.10	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Cerium-141	2.12E+02	2.17E+02	0.98	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Cobalt-58	2.09E+02	2.16E+02	0.97	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Cobalt-60	2.62E+02	2.60E+02	1.01	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Chromium-51	2.66E+02	6.42E+02	1.02	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Cesium-134	2.34E+02	2.57E+02	0.91	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Cesium-137	2.32E+02	2.26E+02	1.03	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Iron-59	2.50E+02	2.21E+02	1.13	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Iodine-131	8.04E+01	8.38E+01	0.96	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Manganese-54	3.05E+02	3.00E+02	1.02	Acceptable
EZA	2nd/2021	08/06/21	E13362	Milk	pCi/L	Zinc-65	3.93E+02	3.62E+02	1.09	Acceptable
EZA	2nd/2021	08/06/21	E13363	Water	pCi/L	Cerium-141	1.96E+02	1.80E+02	1.09	Acceptable
EZA	2nd/2021	08/06/21	E13174	Water	pCi/L	Cobalt-58	1.84E+02	1.79E+02	1.03	Acceptable
EZA	2nd/2021	08/06/21	E13174	Water	pCi/L	Cobalt-60	2.20E+02	2.15E+02	1.02	Acceptable
EZA	2nd/2021	08/06/21	E13174	Water	pCi/L	Chromium-51	5.65E+02	5.33E+02	1.06	Acceptable
EZA	2nd/2021	08/06/21	E13174	Water	pCi/L	Cesium-134	2.02E+02	2.13E+02	0.95	Acceptable
EZA	2nd/2021	08/06/21	E13174	Water	pCi/L	Cesium-137	2.00E+02	1.88E+02	1.07	Acceptable
EZA	2nd/2021	08/06/21	E13174	Water	pCi/L	Iron-59	2.12E+02	1.83E+02	1.16	Acceptable
EZA	2nd/2021	08/06/21	E13174	Water	pCi/L	Iodine-131	9.21E+01	9.20E+01	1.00	Acceptable
EZA	2nd/2021	08/06/21	E13174	Water	pCi/L	Manganese-54	2.75E+02	2.49E+02	1.10	Acceptable
EZA	2nd/2021	08/06/21	E13174	Water	pCi/L	Zinc-65	3.35E+02	3.00E+02	1.12	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Barium-133	48.9	45.5	37.2 - 50.6	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Cesium-134	84.4	87.5	71.8 - 96.2	Acceptable

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ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Cesium-137	211	208	187 - 230	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Cobalt-60	93	87.1	78.4 - 98.1	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Zinc-65	108	102	91.8 - 122	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Gross Alpha	39.1	49.1	25.6 - 61.7	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Gross Alpha	40.3	49.1	25.6 - 61.7	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Gross Beta	30.4	31.5	20.3 - 39.2	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Radium-226	11.2	13.4	9.99 - 15.4	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Radium-228	6.8	7.59	4.81 - 9.68	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Radium-228	6.69	7.59	4.81 - 9.68	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Uranium (Nat)	59.6	62.3	50.9 - 68.5	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	µg/L	Uranium (Nat) mass	94	90.9	74.2 - 100	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Tritium	9820	10400	9050 - 11400	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Tritium	10300	10400	9050 - 11400	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Strontium-89	50.3	55.9	44.6 - 63.6	Acceptable
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Strontium-90	46.2	40.1	29.5 - 46.1	**Not Acceptable**
ERA	3rd /2021	08/30/21	RAD-126	Water	pCi/L	Iodine-131	17.6	20.8	17.2 - 25.0	Acceptable
EZA	3rd/2021	11/08/21	E13364	Cartridge	pCi	Iodine-131	1.02E+02	9.08E+01	112	Acceptable
EZA	3rd/2021	11/08/21	E13365	Milk	pCi/L	Strontium-89	8.92E+01	8.54E+01	1.04	Acceptable
EZA	3rd/2021	11/08/21	E13365	Milk	pCi/L	Strontium-90	1.01E+01	1.40E+01	0.72	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Cerium-141	1.17E+02	1.14E+02	1.02	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Cobalt-58	1.25E+02	1.18E+02	1.06	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Cobalt-60	1.46E+02	1.45E+02	1.01	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Chromium-51	2.69E+02	2.36E+02	1.14	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Cesium-134	9.00E+01	9.31E+01	0.97	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Cesium-137	1.14E+02	1.12E+02	1.02	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Iron-59	1.23E+02	1.02E+02	1.21	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Iodine-131	9.08E+01	8.56E+01	1.06	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Manganese-54	1.31E+02	1.28E+02	1.02	Acceptable
EZA	3rd/2021	11/08/21	E13366	Milk	pCi/L	Zinc-65	1.65E+02	1.53E+02	1.08	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Cerium-141	1.54E+02	1.51E+02	1.02	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Cobalt-58	1.62E+02	1.56E+02	1.04	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Cobalt-60	2.07E+02	1.91E+02	1.08	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Chromium-51	3.30E+02	3.12E+02	1.06	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Cesium-134	1.13E+02	1.23E+02	0.92	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Cesium-137	1.57E+02	1.48E+02	1.06	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Iron-59	1.52E+02	1.35E+02	1.13	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Iodine-131	2.71E+02	2.47E+02	1.10	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Manganese-54	1.83E+02	1.70E+02	1.08	Acceptable
EZA	3rd/2021	11/08/21	E13367	Water	pCi/L	Zinc-65	2.33E+02	2.02E+02	1.15	Acceptable

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MAPEP	4th/2021	12/16/21	MAPEP-21-GrF45	Filter	Bq/sample	Gross Alpha	1.73	0.98	0.288-1.632	**Not Acceptable**
MAPEP	4th/2021	12/16/21	MAPEP-21-GrF45	Filter	Bq/sample	Gross Beta	0.642	0.553	0.277-0.830	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-GrW45	Water	Bq/L	Gross Alpha	0.226	0.232	0.070-0.394	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-GrW45	Water	Bq/L	Gross Beta	2.73	2.8707	1.404-4.211	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Americium-241	106.0	98.0	69-127	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Cesium-134	993	1170	819-1521	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Cesium-137	579.00	572	400-744	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Cobalt-57	0.375		False Pos Test	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Cobalt-60	692	722	505-939	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Iron-55	994	1020	714-1326	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Manganese-54	412	410	287-533	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Nickel-63	1170	1280	896-1664	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Plutonium-238	55.9	59.8	41.9-77.7	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Plutonium-239/240	66.3	71.3	49.9-92.7	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Potassium-40	612	607	425-789	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Strontium-90	0.161		False Pos Test	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Technetium-99	747	777	544-1010	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	U-234/233	80	51	36.0-66.8	**Not Acceptable**
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Uranium-238	177	168	118-218	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaS45	Soil	Bq/Kg	Zinc-65	945	907	635-1179	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Americium-241	0.407	0.426	0.298-0.554	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Cesium-134	9.5	10.4	7.3-13.5	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Cesium-137	-0.04		False Pos Test	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Cobalt-57	14	13.9	9.7-18.1	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Cobalt-60	14.5	14.0	9.8-18.2	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Hydrogen-3	231	250	175-325	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Iron-55	47.9	49.8	34.9-64.7	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Manganese-54	9.47	9.0	6.3-11.7	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Nickel-63	41.4	39.5	27.7-51.4	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Plutonium-238	-0.00169	0.0096	Sens. Evaluation	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Plutonium-239/240	0.470	0.528	0.370-0.689	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Potassium-40	0.005		False Pos Test	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Radium-226	0.310	0.226	0.158-0.294	**Not Acceptable**
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Strontium-90	3.50	3.86	2.70-5.02	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Technetium-99	3.79	3.71	2.60-4.82	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Uranium-234/233	0.0203	0.0215	Sens. Evaluation	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Uranium-238	0.00975	0.0123	Sens. Evaluation	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-MaW45	Water	Bq/L	Zinc-65	0.122		False Pos Test	Acceptable

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MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	ug/sample	Uranium-235	0.0594	0.0588	0.0412-0.0764	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	ug/sample	Uranium-238	8.5	8.3	5.8-10.8	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	ug/sample	Uranium-Total	8.579	8.4	5.9-10.9	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Americium-241	0.109	0.119	0.083-0.155	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Cesium-134	1.23	1.32	0.92-1.72	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Cesium-137	1.31	1.280	0.90-1.66	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Cobalt-57	0.82800	0.83	0.58-1.08	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Cobalt-60	2.37	2.28	1.60-2.96	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Manganese-54	1.60	1.46	1.02-1.90	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Plutonium-238	0.0023	0.0030	Sens. Evaluation	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Plutonium-239/240	0.0574	0.0609	0.0426-0.0792	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Strontium-90	0.195	0.273	0.191-0.355	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Uranium-234/233	0.101	0.100	0.070-0.130	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Uranium-238	0.107	0.104	0.073-0.135	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdF45	Filter	Bq/sample	Zinc-65	0.0579		False Pos Test	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Americium-241	0.0724	0.0747	0.0523-0.0971	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Cesium-134	4.02	4.34	3.04-5.64	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Cesium-137	2.28	2.21	1.55-2.87	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Cobalt-57	4.56	4.66	3.26-6.06	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Cobalt-60	3.44	3.51	2.46-4.56	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Manganese-54	-0.0404		False Pos Test	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Plutonium-238	0.0603	0.0655	0.0459-0.0852	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Plutonium-239/240	0.00140		False Pos Test	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Strontium-90	1.10	1.32	0.92-1.72	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Uranium-234/233	0.1740	0.1830	0.128-0.238	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Uranium-238	0.1770	0.1760	1.123-0.229	Acceptable
MAPEP	4th/2021	12/16/21	MAPEP-21-RdV45	Vegetation	Bq/sample	Zinc-65	2.57	2.43	1.70-3.16	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Actinium-228	3370	3240	2140 - 4080	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Americium-241	922	891	481 - 1260	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Bismuth-212	3320	3350	959 - 4990	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Bismuth-214	1140	1370	658 - 2040	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Cesium-134	2410	2650	1810 - 3170	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Cesium-134	2410	2650	1810 - 3170	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Cesium-137	3720	3660	2770 - 4630	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Cobalt-60	4680	4730	3720 - 5840	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Lead-212	3840	3420	2390 - 4320	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Lead-214	1480	1490	626 - 2340	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Manganese-54	<27.4	<1000	<1000	Acceptable

PT Provider	Quarter / Year	Analytical Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Plutonium-238	1230	1250	623 - 1900	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Plutonium-239	1440	1450	790 - 2090	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Potassium-40	25600	24700	17000 - 29500	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Strontium-90	8770	6090	1900 - 9490	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Thorium-234	3350	2720	1030 - 4660	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Uranium-234	2620	2740	1280 - 3590	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Uranium-234	3260	2740	1280 - 3590	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Uranium-238	2870	2720	1490 - 3650	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Uranium-238	3400	2720	1490 - 3650	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Uranium-Total	5670	5580	3100 - 7210	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Uranium-Total	5670	5580	3100 - 7210	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Uranium-Total	6817	5580	3100 - 7210	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	µg/kg	Uranium (mass)	8630	8140	3670 - 11000	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	µg/kg	Uranium (mass)	10200	8140	3670 - 11000	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Soil	pCi/kg	Zinc-65	5540	4860	3880 - 6630	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Americium-241	4040	4040	2500 - 5710	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Cesium-134	918	923	613 - 1230	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Cesium-137	2180	2210	1700 - 2980	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Cobalt-60	1670	1590	1250 - 2080	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Cobalt-60	1670	1590	1250 - 2080	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Curium-244	2830	2840	1600 - 3530	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Manganese-54	<47.1	<300	<300	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Plutonium-238	1730	1620	1120 - 2090	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Plutonium-239	1620	1440	995 - 1820	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Potassium-40	30200	33300	25000 - 42200	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Strontium-90	5760	5720	3220 - 7450	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Uranium-234	1410	1350	948 - 1720	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Uranium-238	1420	1340	946 - 1680	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Uranium-Total	2900	2750	1760 - 3710	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	µg/kg	Uranium (mass)	4250	4010	3080 - 4970	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Veg	pCi/kg	Zinc-65	1340	1200	896 - 1780	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Americium-241	28.1	27.7	19.8 - 36.9	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Cesium-134	217	241	156 - 296	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Cesium-137	187	187	154 - 245	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Cobalt-60	324	310	264 - 394	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Cobalt-60	324	310	264 - 394	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Iron-55	508	548	200 - 874	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Manganese-54	<3.06	<50.0	<50.0	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Plutonium-238	27.8	28.5	21.5 - 35.0	Acceptable

PT Provider	Quarter / Year	Analytical Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Plutonium-239	22.6	21.6	16.1 - 26.1	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Strontium-90	23.4*	19.2	12.1 - 26.1	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Uranium-234	7.96	7.76	5.75 - 9.09	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Uranium-234	9.62*	7.76	5.75 - 9.09	**Not Acceptable**
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Uranium-238	7.35	7.69	5.81 - 9.17	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Uranium-238	7.38	7.69	5.81 - 9.17	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Uranium-Total	15.8	15.8	11.5 - 18.7	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Uranium-Total	17	15.8	11.5 - 18.7	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	µg/Filter	Uranium (mass)	22.1	23.1	18.5 - 27.1	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	µg/Filter	Uranium (mass)	22.1	23.1	18.5 - 27.1	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Zinc-65	414	366	300 - 559	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Gross Alpha	95.4	77.6	40.5 - 128	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Filter	pCi/Filter	Gross Beta	87	80.6	48.9 - 122	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Americium-241	70.5	63.7	43.7 - 81.5	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Cesium-134	626	649	490 - 714	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Cesium-137	2210	2170	1860 - 2470	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Cobalt-60	1040	964	831 - 1110	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Iron-55	339*	246	145 - 358	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Plutonium-238	74.1	114	68.5 - 148	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Plutonium-239	21.3	34.3	21.2 - 42.3	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Strontium-90	915	936	674 - 1160	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Uranium-234	39.9	40.8	31.1 - 46.7	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Uranium-234	49.8*	40.8	31.1 - 46.7	**Not Acceptable**
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Uranium-238	40.3	40.5	31.4 - 47.7	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Uranium-238	41.2	40.5	31.4 - 47.7	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Uranium-Total	83.1	83.2	64.9 - 94.8	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Uranium-Total	92.9*	83.2	64.9 - 94.8	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	µg/L	Uranium (mass)	121	121	98.0 - 137	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	µg/L	Uranium (mass)	123	121	98.0 - 137	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Zinc-65	449	394	351 - 497	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Gross Alpha	74.7	93.9	34.3 - 129	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Gross Beta	96.1	97	48.5 - 133	Acceptable
ERA	4th/2021	11/23/21	MRAD-35	Water	pCi/L	Tritium	12600	12800	9650 - 15600	Acceptable
ERA	4th/2021	11/27/21	RAD-127	Water	pCi/L	Strontium-90	28.5	29.3	21.3 - 34.0	Acceptable
EZA	4th/2021	02/02/22	E13368	Cartridge	pCi	Iodine-131	9.78E+01	9.35E+01	1.05	Acceptable
EZA	4th/2021	02/02/22	E13370	Milk	pCi/L	Strontium-89	7.54E+01	9.08E+01	0.83	Acceptable
EZA	4th/2021	02/02/22	E13370	Milk	pCi/L	Strontium-90	1.10E+01	1.30E+01	0.85	Acceptable
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Cerium-141	1.32E+02	1.32E+02	1.00	Acceptable
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Cobalt-58	1.14E+02	1.14E+02	1.00	Acceptable
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Cobalt-60	2.27E+02	2.23E+02	1.02	Acceptable

PT Provider	Quarter / Year	Analytical Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Chromium-51	2.84E+02	2.93E+02	0.97	Acceptable
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Cesium-134	1.51E+02	1.66E+02	0.91	Acceptable
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Cesium-137	1.15E+02	1.17E+02	0.98	Acceptable
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Iron-59	1.27E+02	1.13E+02	1.13	Acceptable
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Iodine-131	9.28E+01	9.03E+01	1.03	Acceptable
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Manganese-54	1.60E+02	1.52E+02	1.06	Acceptable
EZA	4th/2021	02/02/22	E13366	Milk	pCi/L	Zinc-65	2.87E+02	2.57E+02	1.12	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Cerium-141	1.53E+02	1.54E+02	0.99	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Cobalt-58	1.42E+02	1.34E+02	1.06	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Cobalt-60	2.82E+02	2.61E+02	1.08	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Chromium-51	3.75E+02	3.42E+02	1.1	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Cesium-134	1.82E+02	1.94E+02	0.94	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Cesium-137	1.41E+02	1.37E+02	1.03	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Iron-59	1.44E+02	1.32E+02	1.09	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Iodine-131	9.66E+01	9.13E+01	1.06	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Manganese-54	1.88E+02	1.77E+02	1.06	Acceptable
EZA	4th/2021	02/02/22	E13367	Water	pCi/L	Zinc-65	3.45E+02	3.01E+02	1.15	Acceptable

Table 6.1-2
2021 ECKERT & ZIEGLER ANALYTICS PERFORMANCE EVALUATION RESULTS

Report Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
03/11/21	E13356	Cartridge	pCi	Iodine-131	9.34E+01	8.80E+01	1.06	Acceptable
03/11/21	E13357	Milk	pCi/L	Strontium-89	9.55E+01	8.71E+01	1.1	Acceptable
03/11/21	E13357	Milk	pCi/L	Strontium-90	1.14E+01	1.26E+01	0.9	Acceptable
03/11/21	E13358	Milk	pCi/L	Cerium-141	1.32E+02	1.25E+02	1.05	Acceptable
03/11/21	E13358	Milk	pCi/L	Cobalt-58	1.33E+02	1.28E+02	1.04	Acceptable
03/11/21	E13358	Milk	pCi/L	Cobalt-60	1.57E+02	1.54E+02	1.02	Acceptable
03/11/21	E13358	Milk	pCi/L	Chromium-51	2.33E+02	2.42E+02	0.96	Acceptable
03/11/21	E13358	Milk	pCi/L	Cesium-134	1.37E+02	1.51E+02	0.9	Acceptable
03/11/21	E13358	Milk	pCi/L	Cesium-137	1.12E+02	1.10E+02	1.02	Acceptable
03/11/21	E13358	Milk	pCi/L	Manganese-54	1.15E+02	1.12E+02	1.02	Acceptable
03/11/21	E13358	Milk	pCi/L	Iron-59	1.21E+02	1.09E+02	1.11	Acceptable
03/11/21	E13358	Milk	pCi/L	Iodine-131	8.39E+01	8.69E+01	0.97	Acceptable
03/11/21	E13358	Milk	pCi/L	Zinc-65	2.38E+02	2.11E+02	1.13	Acceptable
03/11/21	E13359	Water	pCi/L	Cerium-141	1.26E+02	1.24E+02	1.02	Acceptable
03/11/21	E13359	Water	pCi/L	Cobalt-58	1.34E+02	1.26E+02	1.06	Acceptable
03/11/21	E13359	Water	pCi/L	Cobalt-60	1.54E+02	1.52E+02	1.01	Acceptable
03/11/21	E13359	Water	pCi/L	Cesium-134	1.35E+02	1.50E+02	0.9	Acceptable
03/11/21	E13359	Water	pCi/L	Cesium-137	1.15E+02	1.09E+02	1.06	Acceptable
03/11/21	E13359	Water	pCi/L	Iodine-131	9.64E+01	8.79E+01	1.1	Acceptable
03/11/21	E13359	Water	pCi/L	Iron-59	1.12E+02	1.08E+02	1.04	Acceptable
03/11/21	E13359	Water	pCi/L	Manganese-54	1.17E+02	1.11E+02	1.05	Acceptable
03/11/21	E13359	Water	pCi/L	Zinc-65	2.24E+02	2.08E+02	1.08	Acceptable
08/06/21	E13360	Cartridge	pCi	Iodine-131	9.99E+01	9.08E+01	1.10	Acceptable
08/06/21	E13362	Milk	pCi/L	Cerium-141	2.12E+02	2.17E+02	0.98	Acceptable
08/06/21	E13362	Milk	pCi/L	Cobalt-58	2.09E+02	2.16E+02	0.97	Acceptable
08/06/21	E13362	Milk	pCi/L	Cobalt-60	2.62E+02	2.60E+02	1.01	Acceptable
08/06/21	E13362	Milk	pCi/L	Chromium-51	2.66E+02	6.42E+02	1.02	Acceptable
08/06/21	E13362	Milk	pCi/L	Cesium-134	2.34E+02	2.57E+02	0.91	Acceptable
08/06/21	E13362	Milk	pCi/L	Cesium-137	2.32E+02	2.26E+02	1.03	Acceptable
08/06/21	E13362	Milk	pCi/L	Iron-59	2.50E+02	2.21E+02	1.13	Acceptable
08/06/21	E13362	Milk	pCi/L	Iodine-131	8.04E+01	8.38E+01	0.96	Acceptable

Report Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
08/06/21	E13362	Milk	pCi/L	Manganese-54	3.05E+02	3.00E+02	1.02	Acceptable
08/06/21	E13362	Milk	pCi/L	Zinc-65	3.93E+02	3.62E+02	1.09	Acceptable
08/06/21	E13363	Water	pCi/L	Cerium-141	1.96E+02	1.80E+02	1.09	Acceptable
08/06/21	E13174	Water	pCi/L	Cobalt-58	1.84E+02	1.79E+02	1.03	Acceptable
08/06/21	E13174	Water	pCi/L	Cobalt-60	2.20E+02	2.15E+02	1.02	Acceptable
08/06/21	E13174	Water	pCi/L	Chromium-51	5.65E+02	5.33E+02	1.06	Acceptable
08/06/21	E13174	Water	pCi/L	Cesium-134	2.02E+02	2.13E+02	0.95	Acceptable
08/06/21	E13174	Water	pCi/L	Cesium-137	2.00E+02	1.88E+02	1.07	Acceptable
08/06/21	E13174	Water	pCi/L	Iron-59	2.12E+02	1.83E+02	1.16	Acceptable
08/06/21	E13174	Water	pCi/L	Iodine-131	9.21E+01	9.20E+01	1.00	Acceptable
08/06/21	E13174	Water	pCi/L	Manganese-54	2.75E+02	2.49E+02	1.10	Acceptable
08/06/21	E13174	Water	pCi/L	Zinc-65	3.35E+02	3.00E+02	1.12	Acceptable
11/08/21	E13364	Cartridge	pCi	Iodine-131	1.02E+02	9.08E+01	112	Acceptable
11/08/21	E13365	Milk	pCi/L	Strontium-89	8.92E+01	8.54E+01	1.04	Acceptable
11/08/21	E13365	Milk	pCi/L	Strontium-90	1.01E+01	1.40E+01	0.72	Acceptable
11/08/21	E13366	Milk	pCi/L	Cerium-141	1.17E+02	1.14E+02	1.02	Acceptable
11/08/21	E13366	Milk	pCi/L	Cobalt-58	1.25E+02	1.18E+02	1.06	Acceptable
11/08/21	E13366	Milk	pCi/L	Cobalt-60	1.46E+02	1.45E+02	1.01	Acceptable
11/08/21	E13366	Milk	pCi/L	Chromium-51	2.69E+02	2.36E+02	1.14	Acceptable
11/08/21	E13366	Milk	pCi/L	Cesium-134	9.00E+01	9.31E+01	0.97	Acceptable
11/08/21	E13366	Milk	pCi/L	Cesium-137	1.14E+02	1.12E+02	1.02	Acceptable
11/08/21	E13366	Milk	pCi/L	Iron-59	1.23E+02	1.02E+02	1.21	Acceptable
11/08/21	E13366	Milk	pCi/L	Iodine-131	9.08E+01	8.56E+01	1.06	Acceptable
11/08/21	E13366	Milk	pCi/L	Manganese-54	1.31E+02	1.28E+02	1.02	Acceptable
11/08/21	E13366	Milk	pCi/L	Zinc-65	1.65E+02	1.53E+02	1.08	Acceptable
11/08/21	E13367	Water	pCi/L	Cerium-141	1.54E+02	1.51E+02	1.02	Acceptable
11/08/21	E13367	Water	pCi/L	Cobalt-58	1.62E+02	1.56E+02	1.04	Acceptable
11/08/21	E13367	Water	pCi/L	Cobalt-60	2.07E+02	1.91E+02	1.08	Acceptable
11/08/21	E13367	Water	pCi/L	Chromium-51	3.30E+02	3.12E+02	1.06	Acceptable
11/08/21	E13367	Water	pCi/L	Cesium-134	1.13E+02	1.23E+02	0.92	Acceptable
11/08/21	E13367	Water	pCi/L	Cesium-137	1.57E+02	1.48E+02	1.06	Acceptable
11/08/21	E13367	Water	pCi/L	Iron-59	1.52E+02	1.35E+02	1.13	Acceptable
11/08/21	E13367	Water	pCi/L	Iodine-131	2.71E+02	2.47E+02	1.10	Acceptable
11/08/21	E13367	Water	pCi/L	Manganese-54	1.83E+02	1.70E+02	1.08	Acceptable
11/08/21	E13367	Water	pCi/L	Zinc-65	2.33E+02	2.02E+02	1.15	Acceptable
02/02/22	E13368	Cartridge	pCi	Iodine-131	9.78E+01	9.35E+01	1.05	Acceptable

Report Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
02/02/22	E13370	Milk	pCi/L	Strontium-89	7.54E+01	9.08E+01	0.83	Acceptable
02/02/22	E13370	Milk	pCi/L	Strontium-90	1.10E+01	1.30E+01	0.85	Acceptable
02/02/22	E13366	Milk	pCi/L	Cerium-141	1.32E+02	1.32E+02	1.00	Acceptable
02/02/22	E13366	Milk	pCi/L	Cobalt-58	1.14E+02	1.14E+02	1.00	Acceptable
02/02/22	E13366	Milk	pCi/L	Cobalt-60	2.27E+02	2.23E+02	1.02	Acceptable
02/02/22	E13366	Milk	pCi/L	Chromium-51	2.84E+02	2.93E+02	0.97	Acceptable
02/02/22	E13366	Milk	pCi/L	Cesium-134	1.51E+02	1.66E+02	0.91	Acceptable
02/02/22	E13366	Milk	pCi/L	Cesium-137	1.15E+02	1.17E+02	0.98	Acceptable
02/02/22	E13366	Milk	pCi/L	Iron-59	1.27E+02	1.13E+02	1.13	Acceptable
02/02/22	E13366	Milk	pCi/L	Iodine-131	9.28E+01	9.03E+01	1.03	Acceptable
02/02/22	E13366	Milk	pCi/L	Manganese-54	1.60E+02	1.52E+02	1.06	Acceptable
02/02/22	E13366	Milk	pCi/L	Zinc-65	2.87E+02	2.57E+02	1.12	Acceptable
02/02/22	E13367	Water	pCi/L	Cerium-141	1.53E+02	1.54E+02	0.99	Acceptable
02/02/22	E13367	Water	pCi/L	Cobalt-58	1.42E+02	1.34E+02	1.06	Acceptable
02/02/22	E13367	Water	pCi/L	Cobalt-60	2.82E+02	2.61E+02	1.08	Acceptable
02/02/22	E13367	Water	pCi/L	Chromium-51	3.75E+02	3.42E+02	1.1	Acceptable
02/02/22	E13367	Water	pCi/L	Cesium-134	1.82E+02	1.94E+02	0.94	Acceptable
02/02/22	E13367	Water	pCi/L	Cesium-137	1.41E+02	1.37E+02	1.03	Acceptable
02/02/22	E13367	Water	pCi/L	Iron-59	1.44E+02	1.32E+02	1.09	Acceptable
02/02/22	E13367	Water	pCi/L	Iodine-131	9.66E+01	9.13E+01	1.06	Acceptable
02/02/22	E13367	Water	pCi/L	Manganese-54	1.88E+02	1.77E+02	1.06	Acceptable
02/02/22	E13367	Water	pCi/L	Zinc-65	3.45E+02	3.01E+02	1.15	Acceptable

TABLE 6.1-3
REMP INTRA-LABORATORY DATA SUMMARY: BIAS AND PRECISION BY MATRIX

REMP 2021	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
MILK				
Gas Flow Sr 2nd count	54	0	59	1
Gas Flow Total Strontium	12	0	13	0
Gamma Spec Liquid RAD A-013 with Ba, La	32	0	105	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	2	0
SOLID				
Gamma Spec Solid RAD A-013	6	0	9	0
LSC Nickel 63	3	0	3	0
Gas Flow Sr 2nd count	5	0	8	0
Gas Flow Total Strontium	3	0	3	0
Gamma Spec Solid RAD A-013 with Iodine	16	0	37	0
FILTER				
Gross A & B	388	0	248	0
Gamma Spec Filter	35	0	78	0
LIQUID				
Tritium	192	0	249	0
LSC Iron-55	14	0	14	0
LSC Nickel 63	14	0	14	0
Gamma Iodine-131	1	0	1	0
Gas Flow Sr 2nd count	6	0	5	0
Gas Flow Total Strontium	13	0	15	0
Gross Alpha Non Vol Beta	23	0	71	0
Gamma Spec Liquid RAD A-013 with Ba, La	74	0	146	0
Gamma Spec Liquid RAD A-013 with Iodine	17	0	74	0
TISSUE				
Gas Flow Sr 2nd count	9	0	11	0
Gas Flow Total Strontium	5	0	5	0
Gamma Spec Solid RAD A-013 with Iodine	15	0	15	0
VEGETATION				
Gamma Spec Solid RAD A-013	10	0	10	0
Gas Flow Sr 2nd count	10	0	8	0
Gamma Spec Solid RAD A-013 with Iodine	73	0	102	0
AIR CHARCOAL				
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	29	0	28	0
DRINKING WATER				
Tritium	23	0	24	0
LSC Iron-55	7	0	7	0
LSC Nickel 63	8	0	8	0

REMP 2021	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
Gamma Iodine-131	16	0	14	0
Gas Flow Sr 2nd count	9	0	10	0
Gas Flow Total Strontium	10	0	8	0
Gross Alpha Non Vol Beta	64	0	58	0
Gamma Spec Liquid RAD A-013 with Ba, La	20	0	60	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	4	0
Total	**1245**		**1557**	

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

Table 6.1-4
ALL RADIOLOGICAL INTRA-LABORATORY DATA SUMMARY:
BIAS AND PRECISION BY MATRIX

Total Radiological 2021	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
MILK				
Gamma Spec Liquid RAD A-013	4	0	4	0
Gamma Iodine-129	5	0	5	0
Gamma Iodine-131	8	0	119	0
LSC Sulfur 35	1	0	2	0
Gas Flow Sr 2nd count	54	0	59	0
Gas Flow Strontium 90	8	0	8	0
Gas Flow Total Strontium	12	0	13	0
Gamma Spec Liquid RAD A-013 with Ba, La	32	0	105	0
Gamma Spec Liquid RAD A-013 with Iodine	4	0	4	0
SOLID				
Gamma Percent Leach	6	0	0	0
Gas Flow Radium 228	93	0	100	0
Alpha Spec Neptunium	680	0	685	0
Tritium	398	0	479	0
Tritium by Pyrolysis	0	0	1	0
Carbon-14	250	0	334	0
Carbon-14 by Pyrolysis	0	0	1	0
LSC Iron-55	110	0	115	0
Alpha Spec Polonium Solid	23	0	28	0
Gamma Nickel 59 RAD A-022	145	0	149	0
Gamma Spec Ra226 RAD A-013	10	0	9	0
Gamma Spec Solid RAD A-013	1448	0	1867	0
LSC Nickel 63	256	0	279	0
LSC Plutonium	207	0	222	0
Technetium-99	667	0	764	0
Gamma Spec Liquid RAD A-013	1	0	1	0
Gross Alpha Beta Soil Leach	80	0	86	0
ICP-MS Technetium-99 in Soil	3	0	3	0
LSC Selenium 79	31	0	33	0
Total Activity,	6	0	9	0
Tritium	32	0	33	0
Alpha Spec Am243	96	0	110	0
Gamma Iodine-129	103	0	159	0
Gross Alpha/Beta	1	0	1	0
Gas Flow Lead 210	32	0	34	0
Alpha Spec Uranium	814	0	942	0
LSC Promethium 147	4	0	5	0

Total Radiological 2021	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
LSC, Rapid Strontium 89 and 90	55	0	57	0
Alpha Spec Thorium	898	0	1017	0
ICP-MS Uranium-233, 234 in Solid	49	0	52	0
LSC Sulfur 35	3	0	3	0
Alpha Spec Neptunium (pCi/Sample)	1	0	1	0
Alpha Spec Plutonium	759	0	762	0
ICP-MS Technetium-99 Prep in Soil	4	0	3	0
LSC Calcium 45	0	0	1	0
Alpha Spec Plutonium	162	0	174	0
Alpha Spec Radium 226	37	0	46	0
Gas Flow Sr 2nd count	17	0	24	0
Gas Flow Strontium 90	359	0	365	0
Lucas Cell Radium 226	225	0	261	0
Total Activity Screen	1	0	1	0
Alpha Spec Am241 Curium	613	0	602	0
Alpha Spec Total Uranium	81	0	93	0
Gas Flow Total Strontium	105	0	103	0
ICP-MS Uranium-233, 234 Prep in Solid	48	0	52	0
ICP-MS Uranium-235, 236, 238 in Solid	53	0	55	0
Alpha Spec Polonium Solid	14	0	14	0
Gamma Spec Solid RAD A-013 with Iodine	16	0	37	0
GFC Chlorine-36 in Solids	17	0	19	0
Gamma Spec Solid RAD A-013 (pCi/Sample)	1	0	2	0
Technetium-99	1	0	1	0
Tritium	10	0	10	0
Alpha Spec Am241 (pCi/Sample)	1	0	1	0
ICP-MS Uranium-234, 235, 236, 238 in Solid	350	0	361	0
ICP-MS Uranium-235, 236, 238 Prep in Solid	51	0	55	0
Alpha Spec Thorium	1	0	1	0
Gross Alpha/Beta (Am/Cs Calibration) Solid	2	0	3	0
ICP-MS U-234, 235, 236, 238 Prep per sample	8	0	8	0
Gross Alpha/Beta	493	0	592	0
Alpha Spec Plutonium	1	0	1	0
Gas Flow Strontium 90	1	0	1	0
Gross Alpha/Beta (Americium Calibration) Solid	2	0	2	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Solid	181	0	176	0
Gross Alpha Beta (F,U)	17	0	18	0
FILTER				
Alpha Spec Polonium	1	0	10	0
Gamma I-131, filter	4	0	4	0
Alpha Spec Neptunium	73	0	94	0

Total Radiological 2021	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
LSC Plutonium Filter	88	0	125	0
Tritium	28	0	157	0
Alpha Spec Californium	2	0	3	0
Carbon-14 Direct Count	0	0	9	0
Carbon-14	0	0	75	0
ICP-MS Tc-99 in Filter	0	0	5	0
Nickel-63	0	0	20	0
LSC Iron-55	56	0	65	0
Gamma Nickel 59 RAD A-022	77	0	83	0
Alpha Spec Californium FPL	10	0	12	0
LSC Nickel 63	63	0	75	0
Technetium-99	9	0	101	0
Gamma Spec Filter RAD A-013	165	0	220	0
ICP-MS Tc-99 Prep in Filter	0	0	5	0
LSC Selenium 79	4	0	5	0
Alphaspec Np Filter per Liter	5	0	19	0
Alphaspec Pu Filter per Liter	10	0	18	0
Gamma Iodine-129	10	0	63	0
Alpha Spec Am243	17	0	32	0
Gas Flow Lead 210	1	0	2	0
Alpha Spec Uranium	85	0	119	0
LSC, Rapid Strontium 89 and 90	76	0	84	0
Alpha Spec Thorium	45	0	78	0
Gas Flow Radium 228	6	0	10	0
Alpha Spec Plutonium	66	0	142	0
ICP-MS Uranium-233, 234 in Filter	1	0	7	0
Alpha Spec Plutonium	79	0	118	0
Alpha Spec Plutonium	3	0	3	0
Alpha Spec Polonium,(Filter/Liter)	0	0	2	0
Alpha Spec Radium 226	3	0	10	0
Gas Flow Sr 2nd Count	25	0	45	0
Gas Flow Strontium 90	61	0	110	1
Gas Flow Total Radium	2	0	5	0
LSC Plutonium 241 Filter per Liter	7	0	29	0
Lucas Cell Radium-226	5	0	6	0
Alpha Spec Am241Curium	122	0	195	0
Gas Flow Total Strontium	0	0	1	0
ICP-MS Uranium-233, 234 Prep in Filter	1	0	7	0
ICP-MS Uranium-235, 236, 238 in Filter	11	0	15	0
Total Activity in Filter,	0	0	9	0
Alphaspec Am241 Curium Filter per Liter	13	0	45	0

Total Radiological 2021	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
Tritium	91	0	125	0
GFC Chlorine-36 in Filters	1	0	9	0
Gamma Spec Filter RAD A-013 Direct Count	3	0	9	0
Carbon-14	15	0	25	0
Gross A & B (Americium Calibration) Liquid	2	0	36	0
Direct Count-Gross Alpha/Beta	74	0	0	0
Gross Alpha/Beta	23	0	37	0
ICP-MS Uranium-234, 235, 236, 238 in Filter	12	0	60	0
ICP-MS Uranium-235, 236, 238 Prep in Filter	8	0	15	0
Alpha Spec U	19	0	51	0
Gross A & B	418	0	314	0
LSC Iron-55	11	0	17	0
Technetium-99	14	0	32	0
Gas Flow Sr-90	8	0	31	0
LSC Nickel 63	31	0	38	0
Gamma Spec Charcoal	2	0	2	0
Gas Flow Pb-210	0	0	17	0
Gas Flow Ra-228	0	0	18	0
Gross Alpha Beta (Flame, Unflame)	11	0	12	0
Gamma Iodine 129	16	0	16	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Filter	6	0	30	0
Gamma Spec Filter	86	0	137	0
Lucas Cell Ra-226	5	0	24	0
Alpha Spec Thorium	6	0	31	0
LIQUID				
Alpha Spec Uranium	550	0	811	0
Alpha Spec Polonium	9	0	13	0
Alpha Spec Neptunium	230	0	332	0
Tritium	1216	0	1259	0
Carbon-14	156	0	185	0
Plutonium	100	0	118	0
Chlorine-36 in Liquids	1	0	1	0
Iodine-131	4	0	4	0
LSC Iron-55	68	0	124	0
Gamma Nickel 59 RAD A-022	21	0	27	0
Gamma Iodine 131 RAD A-013	1	0	3	0
LSC Nickel 63	114	0	157	0
LSC Radon 222	10	0	10	0
Technetium-99	601	0	714	0
Gamma Spec Liquid RAD A-013	815	0	914	0
Alpha Spec Total U RAD A-011	55	0	72	0
LSC Selenium 79	40	0	40	0

Total Radiological 2021	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
Total Activity,	8	0	9	0
Alpha Spec Am243	10	0	25	0
Gamma Iodine-129	184	0	199	0
Gamma Iodine-131	1	0	1	0
ICP-MS Technetium-99 in Water	3	0	8	0
Gas Flow Lead 210	9	0	20	0
Gross Alpha, Beta	3	0	3	0
LSC Promethium 147	17	0	17	0
LSC, Rapid Strontium 89 and 90	9	0	9	0
Alpha Spec Polonium	2	0	5	0
Alpha Spec Thorium	250	0	393	0
Gas Flow Radium 228	6	0	5	0
Gas Flow Radium 228	537	0	645	0
Alpha Spec Plutonium	401	0	545	0
LSC Sulfur 35	16	0	15	0
Alpha Spec Plutonium	27	0	40	0
Alpha Spec Radium 226	45	0	46	0
Gas Flow Sr 2nd count	65	0	108	0
Gas Flow Strontium 90	318	0	387	0
Gas Flow Strontium 90	10	0	10	0
Gas Flow Total Radium	333	0	281	0
ICP-MS Technetium-99 Prep in Water	3	0	8	0
ICP-MS Uranium-233, 234 in Liquid	7	0	11	0
LSC Calcium 45	13	0	13	0
Lucas Cell Radium 226	317	0	502	0
Lucas Cell Radium-226	7	0	10	0
Total Activity Screen	0	0	1	0
Chlorine-36 in Liquids	19	0	21	0
Gamma Spec Drinking Water RAD A-013	8	0	6	0
Alpha Spec Am241 Curium	353	0	463	0
Gas Flow Total Strontium	118	0	125	0
Gross Alpha Non Vol Beta	722	0	974	0
LSC Phosphorus-32	6	0	8	0
ICP-MS Uranium-233, 234 Prep in Liquid	7	0	11	0
Tritium in Drinking Water by EPA 906.0	9	0	6	0
Gamma Spec Liquid RAD A-013 with Ba, La	76	0	155	0
Gamma Spec Liquid RAD A-013 with Iodine	76	0	157	0
Gas Flow Strontium 89 & 90	6	0	5	0
ICP-MS Uranium-235, 236, 238 in Liquid	10	0	19	0
Gas Flow Total Alpha Radium	9	0	9	0

Total Radiological 2021	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
Gross Alpha Co-precipitation	5	0	9	0
ICP-MS Uranium-235, 236, 238 Prep in Liquid	9	0	19	0
Gross Alpha/Beta	1	0	5	0
ICP-MS Uranium-234, 235, 236, 238 in Liquid	108	0	104	0
Gross Alpha Beta (Flame, Unflame)	253	0	269	0
Gross Alpha Beta (Americium Calibration) Liquid	32	0	74	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Liquid	52	0	56	0
Alpha/Beta (Americium Calibration) Drinking Water	35	0	27	0
ECLS-R-GA NJ 48 Hr Rapid Gross Alpha	1	0	1	0
TISSUE				
Alpha Spec Neptunium	0	0	13	0
Tritium	7	0	19	0
Carbon-14	2	0	13	0
Gamma Nickel 59 RAD A-022	2	0	2	0
Gamma Spec Solid RAD A-013	54	0	77	0
LSC Nickel 63	2	0	2	0
LSC Plutonium	2	0	2	0
Technetium-99	2	0	15	0
Gamma Iodine-129	6	0	19	0
Gas Flow Lead 210	2	0	13	0
Alpha Spec Uranium	8	0	24	0
Alpha Spec Thorium	2	0	14	0
Alpha Spec Plutonium	5	0	19	0
Alpha Spec Plutonium	2	0	2	0
Gas Flow Sr 2nd count	9	0	11	0
Gas Flow Strontium 90	10	0	23	0
Lucas Cell Radium 226	3	0	12	0
Alpha Spec Am241 Curium	3	0	17	0
Gas Flow Total Strontium	5	0	5	0
Gamma Spec Solid RAD A-013 with Iodine	15	0	15	0
GFC Chlorine-36 in Solids	0	0	11	0
Gross Alpha/Beta	3	0	5	0
VEGETATION				
Carbon-14	3	0	3	0
Gamma Spec Solid RAD A-013	29	0	24	0
Technetium-99	1	0	1	0
Tritium	2	0	2	0
Gas Flow Lead 210	3	0	4	0
Alpha Spec Uranium	21	0	24	0
Alpha Spec Thorium	9	0	10	0

Total Radiological 2021	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
Alpha Spec Plutonium	21	0	14	0
Gas Flow Sr 2nd count	10	0	8	0
Gas Flow Strontium 90	22	0	16	0
Gas Flow Total Radium	3	0	4	0
Alpha Spec Am241 Curium	9	0	7	0
Gamma Spec Solid RAD A-013 with Iodine	73	0	102	0
Gamma Spec Solid RAD A-013 (pCi/Sample)	2	0	2	0
Alpha Spec Am241 (pCi/Sample)	0	0	2	0
Alpha Spec Uranium	0	0	2	0
Gross Alpha/Beta	7	0	6	0
Alpha Spec Plutonium	0	0	2	0
Gas Flow Strontium 90	4	0	2	0
AIR CHARCOAL				
Gamma Iodine-129	23	0	8	0
Carbon-14	11	0	11	0
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	29	0	28	0
Gamma Spec Charcoal	14	0	14	0
Gamma Iodine 129	14	0	14	0
DRINKING WATER				
Alpha Spec Uranium	1	0	1	0
Tritium	23	0	24	0
Iodine-131	1	0	0	0
LSC Iron-55	7	0	7	0
LSC Nickel 63	8	0	8	0
LSC Radon 222	17	0	20	0
Gamma Spec Liquid RAD A-013	3	0	3	0
Gamma Iodine-129	2	0	3	0
Gamma Iodine-131	16	0	14	0
Gas Flow Radium 228	41	0	37	0
Gas Flow Sr 2nd count	9	0	10	0
Gas Flow Strontium 90	9	0	8	0
Lucas Cell Radium 226	3	0	4	0
Lucas Cell Radium-226	46	0	46	0
Gamma Spec Drinking Water RAD A-013	37	0	48	0
Gas Flow Total Strontium	10	0	8	0
Gross Alpha Non Vol Beta	159	0	138	0
Tritium in Drinking Water by EPA 906.0	41	0	42	0
Gamma Spec Liquid RAD A-013 with Ba, La	20	0	60	0
Gamma Spec Liquid RAD A-013 with Iodine	2	0	6	0
Gas Flow Strontium 89 & 90	11	0	7	0
Alpha/Beta (Americium Calibration) Drinking Water	11	0	12	0
ECLS-R-GA NJ 48 Hr Rapid Gross Alpha	2	0	2	0

Total Radiological 2021	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
Total	21797		26844	

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

Table 6.1-5
2021 CORRECTIVE ACTION REPORT SUMMARY

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
CARR 210311-1305 **ISO Documentation of PT Failures in RAD 124 in drinking water for:** Ra-226 Ra-228 Sr-89	**Root Cause Analysis** Upon receipt of the PT report, an investigation was initiated by the Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, and interviews with the analysts. The investigation determined that the laboratory met all quality control criteria specified in the method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non-conformance system. Ra-226: The laboratory reviewed the data, and no anomalies were noted. A review of the sample preparation processes, and data set did not reveal any gross errors or possible contributors to the low bias. It is possible that an unknown systematic error must have occurred during the precipitation steps of the procedure resulting in the low bias. Ra-228: The Batch data were reviewed and low gravimetric yields were identified. The Ra-228 drinking water method includes two gravimetric yields and both yields were lower than normal for this method. It is apparent that the low yields, which are multiplied together to determine the final yield for the analysis, biased the result high. Original reported data was calculated with "typical" method yields obtaining result of 11.9 pCi/L (92% of known value). The low yields were not sample specific with MB and LCS yields being similar to the samples in the batch; therefore, an unknown systematic error must have occurred during the precipitation steps of the procedure that resulted in low yields. Sr-89: The result for Strontium-89 was 122% of the known value with the acceptance range limit of 114%. The Group Leader reviewed the method to identify the bias. The method LCS trend was reviewed for the method and no anomalies were identified. The calibration used for the analysis was compared to the new calibration performed recently and the original reported data were processed with both calibrations for comparison. Data were comparable. Instrument run logs were reviewed and there was no indication of possible bias.

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
	Sr89/90 drinking water method includes two gravimetric yields. Both gravimetric batch yields were reviewed, and it was noted that the Yttrium yields appeared to be slightly higher than expected for this method. It is possible that the Yttrium yields were biased high due to analyst error during the drying process. The original reported data were processed with typically recovered Yttrium method yields and the Sr-89 value (65.8 pCi/L) was within the acceptance range at 108%. **Permanent Corrective/Preventive Actions or Improvements** None at this time. The laboratory will continue to monitor the recoveries of these parameters to ensure that there are no continued issues in the processes.
CARR 210524-1327 **ISO Documentation of PT Failure in RAD 125 in drinking water for:** • Ra-226	**Root Cause Analysis** The laboratory reviewed the data, and no anomalies were noted. A review of the sample preparation processes, and data set did not reveal any gross errors or possible contributors to the low bias. It is possible that an unknown systematic error must have occurred during the precipitation steps of the procedure resulting in the low bias. **Permanent Corrective/Preventive Actions or Improvements** None at this time. The laboratory will continue to monitor the recoveries of these parameters to ensure that there are no continued issues in the processes
CARR 210603-1329 **ISO Documentation of PT Failure in MRAD 34 in air filter and water for:** • Gross Alpha **ISO Documentation of PT Failure in MRAD-34 in water for:** • Fe-55	**Root Cause Analysis** The results for this analysis were reviewed and it was noted that the result for the in-batch duplicate would have been acceptable recovering at 96% of the known value and met replication criteria. The laboratory investigated the transfer rig that was used to prep the unacceptable sample and noted loose fittings and cracked tubing. These may have contributed to the low bias in the sample preparation. The transfer rig was rebuilt, and the other rigs inspected for possible wear issues that may need to be rebuilt or replaced. **Permanent Corrective/Preventive Actions or Improvements** None at this time. The laboratory will continue to monitor the recovery of this parameter to ensure that there are no continued issues in the processes.
CARR 210723-1339 **ISO Documentation of PT Failures in MAPEP 44 for:** • Sb	**Root Cause Analysis** The antimony sample was prepared using standard hot-acid leach per section 7.5 of SW-846 3050B. More rigorous digestions were used in an attempt to increase solubility without success. It is suspected that the low bias in the result is due to an unidentified matrix interferant.

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
• Ce-134 • Sr-90	The data have been reviewed for these analyses and no errors were noted. The Cesium-134 and Strontium-90 failed with a low bias compared to the known. It was noted that several other reported isotopes had a low bias but were within the acceptance ranges for their parameters. It is suspected that the sample preparation had an unidentified error during the digestion process. **Permanent Corrective/Preventive Actions or Improvements** None at this time. The laboratory will continue to monitor the recovery of this parameter to ensure that there are no continued issues in the processes.
CARR 210830-1343 **ISO Documentation of PT Failures in RAD-126 for:** • Sr-90	**Root Cause Analysis** The data have been reviewed for this analysis and no errors were noted. The Strontium-90 failed with a high bias compared to the known. **Permanent Corrective/Preventive Actions or Improvements** None at this time. The laboratory will continue to monitor the recovery of this parameter to ensure that there are no continued issues in the processes.
CARR 211216-1360 **ISO Documentation of PT Failures in MAPEP 45 for:** • Gross Alpha • U-234 • Np-237 • Ra-226 • Sr-90	**Root Cause Analysis** Gross Alpha: The data for this analysis has been reviewed and no errors were noted. It was found that the result from the original count for the sample preparation was within the acceptance limits of the study. The sample initially did not meet replication criteria for the in-batch duplicate and was recounted. The duplicate sample was not recounted during the process. U-234: The laboratory preparation and counting procedures were evaluated for potential contributors to the high bias of these results. None were noted and the batches met QC criteria for recovery and duplication. Np-237: Upon review, it is suspected that the bias in the Np result is due to an unidentified matrix interferant. The sample should have been returned to the lab for additional clean up steps. The Sr warning result recovered at 72.5% of the known value. The laboratory evaluated both the prep and instrument processes for possible causes for the low bias. A definitive cause was not determined. Ra-226: The data has been reviewed and no errors were found. It was noted that the in-batch duplicate sample result was within acceptance limits for the study. The samples met RER replication criteria. Sr-90: This warning result recovered at 71% of the known value. The laboratory evaluated both the prep and instrument processes for possible causes for the low bias. A definitive source was not determined. This Sr warning result was analyzed in a separate laboratory than the synthetic fecal sample which uses an entirely separate processes for analysis.

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
	Permanent Corrective/Preventive Actions or Improvements None at this time. The laboratory will continue to monitor the recoveries of these parameters to ensure that there are no continued issues in the processes.
CARR 211215-1358 **ISO Documentation of PT Failures in MRAD 35 air filter and water for:** • U-234	**Root Cause Analysis** The laboratory reviewed the data and found no errors. It was noted that the sample was replicated in the analysis batch and met replication criteria. For the water analysis, the result of the duplicate sample was within the acceptance range of the study. All analysis data met the acceptance QC criteria and procedures for initial calibration, continuing calibration, instrument controls and process controls were met. **Permanent Corrective/Preventive Actions or Improvements** None at this time. The laboratory will continue to monitor the recoveries of these parameters to ensure that there are no continued issues in the processes.

6.2 Environmental TLD QA

Environmental dosimetry services for the reporting period of January – December 2021 were provided through Stanford Dosimetry, with TLD processing by the Environmental Dosimetry Company (EDC), Sterling, Massachusetts. The TLD systems at the Environmental Dosimetry Company (EDC) are calibrated and operated to ensure consistent and accurate evaluation of TLDs. The quality of the dosimetric results reported to EDC clients is ensured by in-house performance testing and independent performance testing by EDC clients.

The purpose of the dosimetry quality assurance program is to provide performance documentation of the routine processing of EDC dosimeters. Performance testing provides a statistical measure of the bias and precision of dosimetry processing against a reliable standard, which in turn points out any trends or performance changes. Dosimetry quality control tests are performed on EDC Panasonic 814 Environmental dosimeters. These tests include: (1) the in-house testing program conducted by the EDC QA Officer; and (2) independent tests perform by EDC clients. In-house tests are performed using six pairs of 814 dosimeters. A pair is reported as an individual result and six pairs are reported as the mean result.

Excluded from this report are instrumentation checks. Although instrumentation checks represent an important aspect of the quality assurance program, they are not included as process checks in this report. Instrumentation checks represent between 5-10% of the TLDs processed.

Table 6.2-1 provides a summary of individual dosimeter results evaluated against the EDC internal acceptance criteria for high-energy photons (Cs-137) only. The internal acceptance (tolerance) criteria for the Panasonic Environmental dosimeters are: ± 15% for bias and ± 12.8% for precision. During this period, 100% (72/72) of the individual dosimeters evaluated against these criteria met the tolerance limits for accuracy and 100% (72/72) met the criterion for precision.

Table 6.2-2 provides the Bias + Standard deviation results for each group (N=6) of dosimeters evaluated against the internal tolerance criteria. Overall, 100% (12/12) of the dosimeter sets evaluated against the internal tolerance performance criteria met these criteria.

Table 6.2-3 presents the independent blind spike results for irradiated dosimeters provided by client utilities during this annual period. All results passed the performance acceptance criterion.

Table 6.2-4 presents the independent blind duplicate results for dosimeters co-located with field dosimeters provided by the client utility (Seabrook Station) during the annual period. All results passed the performance criteria of agreement to within 20% (within 3-sigma) of the field dosimeter.

TABLE 6.2-1

PERCENTAGE OF INDIVIDUAL DOSIMETERS THAT PASSED EDC INTERNAL CRITERIA JANUARY – DECEMBER 2021[(1), (2)]

Dosimeter Type	Number Tested	% Passed Bias Criteria	% Passed Precision Criteria
Panasonic Environmental	72	100	100

[(1)]This table summarizes results of tests conducted by EDC.
[(2)]Environmental dosimeter results are free in air.

TABLE 6.2-2

MEAN DOSIMETER ANALYSES (N=6)
JANUARY – DECEMBER 2021[1], [2]

Process Date	Exposure Level	Mean Bias %	Standard Deviation %	Tolerance Limit +/-15%
5/04/2021	33	0.6	0.9	Pass
5/06/2021	120	-0.2	1.4	Pass
5/26/2021	53	-3.8	1.6	Pass
7/27/2021	67	2.8	1.4	Pass
8/04/2021	91	-1.8	2.3	Pass
9/14/2021	47	-0.2	2.3	Pass
11/01/2021	28	3.7	0.6	Pass
11/03/2021	74	1.9	1.9	Pass
11/09/2021	103	1.1	1.1	Pass
01/26/2022	37	2.6	1.9	Pass
01/30/2022	85	-4.2	1.1	Pass
02/06/2022	58	2.9	1.2	Pass

[1] This table summarizes results of tests conducted by EDC for TLDs issued in 2021.
[2] Environmental dosimeter results are free in air.

TABLE 6.2-3

SUMMARY OF INDEPENDENT DOSIMETER TESTING
JANUARY – DECEMBER 2021[1], [2]

Issuance Period	Client	Mean Bias %	Standard Deviation %	Pass / Fail
1st Qtr. 2021	SONGS	-3.8	1.4	Pass
1st Qtr. 2021	SONGS	-4.7	1.1	Pass
2nd Qtr.2021	Seabrook	3.1	1.0	Pass
3rd Qtr. 2021	Millstone	-4.7	1.4	Pass
4th Qtr.2021	PSEG(PNNL) 50mR	1.3	0.8	Pass
4th Qtr.2021	PSEG(PNNL) 100mR	1.8	0.8	Pass
4th Qtr.2021	PSEG(PNNL) 150mR	-0.6	0.5	Pass
4th Qtr.2021	PSEG(PNNL) 200mR	-2.6	2.0	Pass
4th Qtr.2021	Seabrook	2.6	1.4	Pass

[1] Performance criterion is +/- 15%.
[2] Blind spike irradiations using Cs-137

TABLE 6.2-4

SUMMARY OF INDEPENDENT BLIND DUPLICATE DOSIMETER TESTING
JANUARY – DECEMBER 2021[1]

Issuance Period	Client	Number Tested	Mean Bias %	Standard Deviation %	% Passed Precision Criteria
1st Qtr. 2021	Seabrook	12	0.7	3.7	Pass
2nd Qtr.2021	Seabrook	6	0.7	3.3	Pass
3rd Qtr. 2021	Seabrook	12	-4.6	2.9	Pass
4th Qtr.2021	Seabrook	6	-0.2	3.7	Pass

[1] Performance criterion is Bias % within +/- 20% for each test dosimeter.

7.0 Land Use Census

The Offsite Dose Calculation Manual (ODCM Control 9.2.1) requires that a Land Use Census be conducted annually to identify the location of the nearest residence, milk animal and nearest garden of greater than 50 square meters producing broad leaf vegetation in each of the 16 meteorological sectors within five miles of the plant. The 2021 census was completed in accordance with the requirements of the ODCM. In 2021, a global positioning system was used to determine locations in the off-site environs with respect to the center of the site (Unit 1 Containment).

The nearest resident, garden and milk animal locations identified in the 2021 Land Use Census and their distances are shown in Table 7.0-1. There were slight changes in the measured distances for residences in the NNE, NE, ENE, E, ESE, SE, SSE, SW and WSW sectors due to the specific location where the GPS measurement was taken. There were no changes in the locations of nearest gardens from last year's census.

There were no new milk producing locations identified within the required 5 miles (8 km) of the plant that were different from those reported in the last year's land use census. As a result, there still remains an insufficient number of milk producing locations to qualify milk sampling as a REMP media per the requirements of ODCM Table A.9.1-1.

The results of this year's census also showed that the sampling locations used in the REMP continue to have the highest calculated dose commitments of available locations. In 2021, broad leaf vegetation continued as part of the sample collection and analysis program due to the absence of sufficient milk producing locations to provide REMP samples. Sampling locations for broad leaf vegetation are at the site boundary near points of highest predicted D/Q. This option continues, as opposed to public owned vegetable gardens located by the land use census, in order to ensure adequate availability of samples for REMP analysis from locations with the highest potential for detecting plant effluents.

Table 7.0-1

2021 Land Use Census Results
(Within 5 Miles)

Sector	Nearest Residence (km)	Nearest Garden (km)	Nearest Milk Animal (km)
N	2.78	3.99	
NNE	3.09	3.20	
NE	2.92	4.24	
ENE	2.31	2.53	
E	2.56	-----	
ESE	2.43	-----	
SE	2.36	4.69	
SSE	1.65	-----	
S	1.21	1.25	
SSW	1.12	1.22	
SW	1.13	1.73	
WSW	1.87	2.33	
W	1.25	1.55	
WNW	1.11	3.08	
NW	1.22	3.14	6.93
NNW	1.04	2.07	5.32[a]

[a] No milking goats at this time.

Attachment 1: Sample Analysis Data List for 2021

FLAGS

A blank Flag field indicates that the measured activity is considered positive as it is greater than the MDC and has no other qualifiers noted.

U: Target isotope was analyzed for but not detected above the MDC and LLD.
UI: Uncertain identification for gamma spectroscopy.
X: Lab-specific qualifier:
(1) False positive due to the presence of radon gas in the water.
M: Reported result is less than the LLD and greater than the MDC.
DL: Measured MDC is greater than the LLD.
DL*: Near miss of MDC being within round-off difference of being greater than the LLD.

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
AL	05	545134001	5/11/2021	Ac-228	1.17E+01	1.38E+01	3.83E+01	U
AL	05	545134001	5/11/2021	Ag-108m	-3.02E+00	2.14E+00	6.32E+00	U
AL	05	545134001	5/11/2021	Ag-110m	-4.11E-01	3.84E+00	1.22E+01	U
AL	05	545134001	5/11/2021	Ba-140	1.48E+01	1.67E+01	5.66E+01	U
AL	05	545134001	5/11/2021	Be-7	2.31E+02	5.65E+01	7.16E+01	
AL	05	545134001	5/11/2021	Ce-141	1.05E+00	3.89E+00	1.27E+01	U
AL	05	545134001	5/11/2021	Ce-144	-2.70E+01	1.53E+01	4.21E+01	U
AL	05	545134001	5/11/2021	Co-57	-7.50E-01	1.95E+00	6.24E+00	U
AL	05	545134001	5/11/2021	Co-58	4.31E-01	2.78E+00	9.04E+00	U
AL	05	545134001	5/11/2021	Co-60	-3.02E+00	3.09E+00	9.29E+00	U
AL	05	545134001	5/11/2021	Cr-51	-3.59E+01	2.41E+01	7.24E+01	U
AL	05	545134001	5/11/2021	Cs-134	-4.08E-01	2.87E+00	9.17E+00	U
AL	05	545134001	5/11/2021	Cs-137	6.45E+00	2.91E+00	9.30E+00	U
AL	05	545134001	5/11/2021	Fe-59	3.10E-01	7.45E+00	2.53E+01	U
AL	05	545134001	5/11/2021	I-131	7.83E+00	6.62E+00	2.26E+01	U
AL	05	545134001	5/11/2021	K-40	6.66E+03	4.00E+02	6.36E+01	
AL	05	545134001	5/11/2021	La-140	-1.54E+00	4.77E+00	1.51E+01	U
AL	05	545134001	5/11/2021	Mn-54	2.60E+00	2.75E+00	9.12E+00	U
AL	05	545134001	5/11/2021	Nb-95	1.52E-01	2.57E+00	8.37E+00	U
AL	05	545134001	5/11/2021	Ru-103	-2.29E+00	2.62E+00	8.17E+00	U
AL	05	545134001	5/11/2021	Ru-106	-3.10E+01	2.46E+01	7.18E+01	U
AL	05	545134001	5/11/2021	Sb-124	-1.26E+00	6.02E+00	1.66E+01	U
AL	05	545134001	5/11/2021	Sb-125	6.18E+00	6.73E+00	2.30E+01	U
AL	05	545134001	5/11/2021	Se-75	-5.64E+00	3.55E+00	9.52E+00	U
AL	05	545134001	5/11/2021	Th-228	0.00E+00	8.76E+00	1.77E+01	U
AL	05	545134001	5/11/2021	Zn-65	1.06E+01	8.06E+00	2.76E+01	U
AL	05	545134001	5/11/2021	Zr-95	-2.48E+00	5.12E+00	1.60E+01	U
AL	05	562686001	11/17/2021	Ac-228	-2.52E+01	2.47E+01	6.34E+01	U
AL	05	562686001	11/17/2021	Ag-108m	-5.76E-01	3.09E+00	1.01E+01	U
AL	05	562686001	11/17/2021	Ag-110m	-8.71E+00	6.21E+00	1.77E+01	U
AL	05	562686001	11/17/2021	Ba-140	-4.45E+01	3.06E+01	8.51E+01	U
AL	05	562686001	11/17/2021	Be-7	2.01E+02	7.03E+01	1.10E+02	
AL	05	562686001	11/17/2021	Ce-141	-8.18E+00	1.00E+01	2.15E+01	U
AL	05	562686001	11/17/2021	Ce-144	0.00E+00	3.23E+01	6.72E+01	U
AL	05	562686001	11/17/2021	Co-57	-2.93E+00	2.82E+00	8.49E+00	U
AL	05	562686001	11/17/2021	Co-58	-5.28E+00	4.71E+00	1.43E+01	U
AL	05	562686001	11/17/2021	Co-60	2.93E+00	5.08E+00	1.72E+01	U
AL	05	562686001	11/17/2021	Cr-51	2.75E+01	3.72E+01	1.28E+02	U
AL	05	562686001	11/17/2021	Cs-134	3.40E+00	4.77E+00	1.67E+01	U
AL	05	562686001	11/17/2021	Cs-137	2.93E+00	4.61E+00	1.46E+01	U
AL	05	562686001	11/17/2021	Fe-59	5.86E+00	1.22E+01	4.12E+01	U
AL	05	562686001	11/17/2021	I-131	1.82E+01	1.18E+01	3.97E+01	U
AL	05	562686001	11/17/2021	K-40	7.62E+03	4.70E+02	1.65E+02	
AL	05	562686001	11/17/2021	La-140	-1.53E+01	1.27E+01	3.04E+01	U
AL	05	562686001	11/17/2021	Mn-54	-1.02E+00	3.96E+00	1.31E+01	U
AL	05	562686001	11/17/2021	Nb-95	-1.55E+01	7.61E+00	1.65E+01	U
AL	05	562686001	11/17/2021	Ru-103	3.58E+00	4.68E+00	1.57E+01	U
AL	05	562686001	11/17/2021	Ru-106	-5.11E+01	4.15E+01	1.18E+02	U
AL	05	562686001	11/17/2021	Sb-124	3.93E+00	8.80E+00	3.12E+01	U
AL	05	562686001	11/17/2021	Sb-125	-1.48E+01	1.02E+01	2.88E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
AL	05	562686001	11/17/2021	Se-75	-4.85E+00	4.67E+00	1.48E+01	U
AL	05	562686001	11/17/2021	Th-228	6.64E+00	8.32E+00	2.50E+01	U
AL	05	562686001	11/17/2021	Zn-65	1.08E+01	1.20E+01	4.11E+01	U
AL	05	562686001	11/17/2021	Zr-95	9.26E+00	8.31E+00	2.77E+01	U
AL	55	545134002	5/11/2021	Ac-228	1.31E+01	1.79E+01	5.44E+01	U
AL	55	545134002	5/11/2021	Ag-108m	-6.44E-01	2.68E+00	8.49E+00	U
AL	55	545134002	5/11/2021	Ag-110m	-6.85E+00	5.03E+00	1.45E+01	U
AL	55	545134002	5/11/2021	Ba-140	-1.73E+00	2.37E+01	7.48E+01	U
AL	55	545134002	5/11/2021	Be-7	3.32E+02	6.14E+01	9.98E+01	
AL	55	545134002	5/11/2021	Ce-141	1.54E+01	1.01E+01	1.70E+01	U
AL	55	545134002	5/11/2021	Ce-144	-2.38E+01	1.95E+01	6.15E+01	U
AL	55	545134002	5/11/2021	Co-57	1.59E+00	2.41E+00	8.23E+00	U
AL	55	545134002	5/11/2021	Co-58	-2.07E-01	3.57E+00	1.18E+01	U
AL	55	545134002	5/11/2021	Co-60	3.76E+00	4.22E+00	1.41E+01	U
AL	55	545134002	5/11/2021	Cr-51	-5.06E+00	3.29E+01	1.07E+02	U
AL	55	545134002	5/11/2021	Cs-134	2.59E-01	4.70E+00	1.44E+01	U
AL	55	545134002	5/11/2021	Cs-137	6.52E-01	3.38E+00	1.15E+01	U
AL	55	545134002	5/11/2021	Fe-59	2.65E+01	1.86E+01	3.18E+01	U
AL	55	545134002	5/11/2021	I-131	5.37E+00	9.51E+00	3.13E+01	U
AL	55	545134002	5/11/2021	K-40	7.40E+03	4.12E+02	1.03E+02	
AL	55	545134002	5/11/2021	La-140	6.94E+00	5.55E+00	1.89E+01	U
AL	55	545134002	5/11/2021	Mn-54	-3.92E+00	4.45E+00	1.13E+01	U
AL	55	545134002	5/11/2021	Nb-95	-2.15E+00	3.97E+00	1.11E+01	U
AL	55	545134002	5/11/2021	Ru-103	-2.99E+00	4.10E+00	1.25E+01	U
AL	55	545134002	5/11/2021	Ru-106	6.70E+01	4.87E+01	9.08E+01	U
AL	55	545134002	5/11/2021	Sb-124	-8.81E+00	7.74E+00	2.19E+01	U
AL	55	545134002	5/11/2021	Sb-125	-1.05E+01	8.62E+00	2.50E+01	U
AL	55	545134002	5/11/2021	Se-75	8.26E-01	4.35E+00	1.30E+01	U
AL	55	545134002	5/11/2021	Th-228	0.00E+00	1.47E+01	2.09E+01	U
AL	55	545134002	5/11/2021	Zn-65	3.92E+00	9.61E+00	3.18E+01	U
AL	55	545134002	5/11/2021	Zr-95	-4.01E+00	7.68E+00	2.16E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
AL	55	562686002	11/17/2021	Ac-228	3.07E+01	2.48E+01	5.78E+01	U
AL	55	562686002	11/17/2021	Ag-108m	-1.83E-01	2.03E+00	6.44E+00	U
AL	55	562686002	11/17/2021	Ag-110m	1.16E+00	4.32E+00	1.40E+01	U
AL	55	562686002	11/17/2021	Ba-140	-8.35E+00	1.76E+01	5.58E+01	U
AL	55	562686002	11/17/2021	Be-7	3.96E+02	6.10E+01	8.64E+01	
AL	55	562686002	11/17/2021	Ce-141	4.40E+00	4.79E+00	1.55E+01	U
AL	55	562686002	11/17/2021	Ce-144	-3.37E+01	1.82E+01	4.85E+01	U
AL	55	562686002	11/17/2021	Co-57	5.01E-01	1.97E+00	6.40E+00	U
AL	55	562686002	11/17/2021	Co-58	1.50E+00	3.65E+00	1.20E+01	U
AL	55	562686002	11/17/2021	Co-60	-2.25E+00	3.52E+00	9.27E+00	U
AL	55	562686002	11/17/2021	Cr-51	4.42E+01	2.88E+01	9.76E+01	U
AL	55	562686002	11/17/2021	Cs-134	7.03E+00	6.91E+00	1.02E+01	U
AL	55	562686002	11/17/2021	Cs-137	3.11E+00	3.25E+00	1.09E+01	U
AL	55	562686002	11/17/2021	Fe-59	1.59E+00	8.09E+00	2.75E+01	U
AL	55	562686002	11/17/2021	I-131	0.00E+00	8.98E+00	2.15E+01	U
AL	55	562686002	11/17/2021	K-40	6.21E+03	3.53E+02	1.13E+02	
AL	55	562686002	11/17/2021	La-140	4.10E+00	5.28E+00	1.88E+01	U
AL	55	562686002	11/17/2021	Mn-54	1.36E+00	3.16E+00	1.04E+01	U
AL	55	562686002	11/17/2021	Nb-95	-2.03E+00	3.87E+00	1.20E+01	U
AL	55	562686002	11/17/2021	Ru-103	-5.09E+00	3.41E+00	9.67E+00	U
AL	55	562686002	11/17/2021	Ru-106	-1.96E+01	2.73E+01	8.40E+01	U
AL	55	562686002	11/17/2021	Sb-124	1.54E+00	6.77E+00	2.27E+01	U
AL	55	562686002	11/17/2021	Sb-125	1.72E+01	8.34E+00	2.71E+01	U
AL	55	562686002	11/17/2021	Se-75	-6.88E+00	4.19E+00	1.11E+01	U
AL	55	562686002	11/17/2021	Th-228	0.00E+00	1.02E+01	1.63E+01	U
AL	55	562686002	11/17/2021	Zn-65	8.03E-01	8.18E+00	2.77E+01	U
AL	55	562686002	11/17/2021	Zr-95	-3.99E+00	6.33E+00	1.93E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	01	532372001	1/13/2021	BETA	2.47E-02	1.08E-03	8.27E-04	
AP	01	533687001	1/27/2021	BETA	2.07E-02	1.01E-03	8.66E-04	
AP	01	535173001	2/10/2021	BETA	2.20E-02	1.08E-03	1.01E-03	
AP	01	536335001	2/25/2021	BETA	2.56E-02	9.97E-04	7.03E-04	
AP	01	537636001	3/10/2021	BETA	2.55E-02	1.09E-03	8.32E-04	
AP	01	539006001	3/24/2021	BETA	2.43E-02	1.02E-03	7.33E-04	
AP	01	543395001	3/24/2021	Ac-228	1.34E-03	6.57E-04	1.66E-03	U
AP	01	543395001	3/24/2021	Ag-108m	-8.89E-05	8.09E-05	2.48E-04	U
AP	01	543395001	3/24/2021	Ag-110m	1.18E-04	1.49E-04	5.10E-04	U
AP	01	543395001	3/24/2021	Ba-140	-7.32E-02	3.48E-02	8.59E-02	U
AP	01	543395001	3/24/2021	Be-7	1.13E-01	8.34E-03	7.23E-03	
AP	01	543395001	3/24/2021	Ce-141	-1.80E-04	6.70E-04	2.23E-03	U
AP	01	543395001	3/24/2021	Ce-144	1.03E-03	1.15E-03	1.72E-03	U
AP	01	543395001	3/24/2021	Co-57	-2.10E-05	6.85E-05	2.31E-04	U
AP	01	543395001	3/24/2021	Co-58	1.87E-04	2.05E-04	7.01E-04	U
AP	01	543395001	3/24/2021	Co-60	-6.78E-05	1.11E-04	3.49E-04	U
AP	01	543395001	3/24/2021	Cr-51	-2.76E-03	5.81E-03	1.80E-02	U
AP	01	543395001	3/24/2021	Cs-134	2.84E-04	1.20E-04	3.84E-04	U
AP	01	543395001	3/24/2021	Cs-137	1.60E-04	1.04E-04	3.09E-04	U
AP	01	543395001	3/24/2021	Fe-59	9.96E-04	9.94E-04	2.37E-03	U
AP	01	543395001	3/24/2021	I-131	0.00E+00	1.36E-01	0.00E+00	UI
AP	01	543395001	3/24/2021	K-40	8.87E-04	2.22E-03	3.40E-03	U
AP	01	543395001	3/24/2021	La-140	-7.12E-03	1.29E-02	3.98E-02	U
AP	01	543395001	3/24/2021	Mn-54	-4.38E-06	1.06E-04	3.52E-04	U
AP	01	543395001	3/24/2021	Nb-95	3.37E-04	2.36E-04	7.99E-04	U
AP	01	543395001	3/24/2021	Ru-103	1.85E-04	3.19E-04	1.07E-03	U
AP	01	543395001	3/24/2021	Ru-106	4.11E-04	9.44E-04	3.10E-03	U
AP	01	543395001	3/24/2021	Sb-124	-9.68E-04	5.80E-04	1.35E-03	U
AP	01	543395001	3/24/2021	Sb-125	1.64E-04	2.53E-04	8.56E-04	U
AP	01	543395001	3/24/2021	Se-75	3.22E-04	2.85E-04	5.91E-04	U
AP	01	543395001	3/24/2021	Th-228	2.65E-04	2.71E-04	6.20E-04	U
AP	01	543395001	3/24/2021	Zn-65	-3.64E-04	2.86E-04	7.95E-04	U
AP	01	543395001	3/24/2021	Zr-95	6.02E-04	4.09E-04	1.39E-03	U
AP	01	540404001	4/7/2021	BETA	1.77E-02	9.11E-04	8.10E-04	
AP	01	541857001	4/21/2021	BETA	9.13E-03	6.81E-04	8.29E-04	M
AP	01	544029001	5/5/2021	BETA	2.22E-02	1.04E-03	9.98E-04	
AP	01	545432001	5/19/2021	BETA	1.81E-02	9.33E-04	8.54E-04	
AP	01	546369001	6/2/2021	BETA	1.55E-02	8.75E-04	8.71E-04	
AP	01	547926001	6/16/2021	BETA	2.22E-02	1.03E-03	8.20E-04	
AP	01	548743001	6/29/2021	BETA	2.23E-02	1.10E-03	9.67E-04	
AP	01	552139001	6/29/2021	Ac-228	-1.26E-04	2.97E-04	9.40E-04	U
AP	01	552139001	6/29/2021	Ag-108m	-1.68E-06	5.62E-05	1.89E-04	U
AP	01	552139001	6/29/2021	Ag-110m	1.43E-04	1.33E-04	5.00E-04	U
AP	01	552139001	6/29/2021	Ba-140	-1.18E-03	3.40E-02	1.12E-01	U
AP	01	552139001	6/29/2021	Be-7	1.22E-01	9.35E-03	5.21E-03	
AP	01	552139001	6/29/2021	Ce-141	1.16E-04	3.82E-04	1.29E-03	U
AP	01	552139001	6/29/2021	Ce-144	4.97E-05	3.18E-04	9.93E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	01	552139001	6/29/2021	Co-57	-1.22E-05	3.12E-05	1.01E-04	U
AP	01	552139001	6/29/2021	Co-58	2.22E-04	1.62E-04	6.07E-04	U
AP	01	552139001	6/29/2021	Co-60	4.33E-05	8.64E-05	3.11E-04	U
AP	01	552139001	6/29/2021	Cr-51	-5.60E-03	5.09E-03	1.37E-02	U
AP	01	552139001	6/29/2021	Cs-134	2.79E-05	1.01E-04	3.36E-04	U
AP	01	552139001	6/29/2021	Cs-137	2.90E-05	8.53E-05	3.00E-04	U
AP	01	552139001	6/29/2021	Fe-59	-3.91E-05	5.72E-04	1.88E-03	U
AP	01	552139001	6/29/2021	I-131	0.00E+00	1.53E-01	0.00E+00	UI
AP	01	552139001	6/29/2021	K-40	9.27E-04	1.43E-03	4.89E-03	U
AP	01	552139001	6/29/2021	La-140	1.12E-02	1.61E-02	5.84E-02	U
AP	01	552139001	6/29/2021	Mn-54	8.34E-05	9.64E-05	3.40E-04	U
AP	01	552139001	6/29/2021	Nb-95	1.57E-04	1.68E-04	6.08E-04	U
AP	01	552139001	6/29/2021	Ru-103	-2.16E-04	3.42E-04	1.06E-03	U
AP	01	552139001	6/29/2021	Ru-106	-6.58E-04	8.91E-04	2.63E-03	U
AP	01	552139001	6/29/2021	Sb-124	5.41E-04	5.41E-04	2.16E-03	U
AP	01	552139001	6/29/2021	Sb-125	-4.42E-04	2.25E-04	4.15E-04	U
AP	01	552139001	6/29/2021	Se-75	9.89E-06	1.26E-04	4.01E-04	U
AP	01	552139001	6/29/2021	Th-228	3.47E-04	1.53E-04	3.00E-04	UI
AP	01	552139001	6/29/2021	Zn-65	-6.17E-05	3.38E-04	1.10E-03	U
AP	01	552139001	6/29/2021	Zr-95	1.22E-03	6.10E-04	1.25E-03	U
AP	01	549925001	7/13/2021	BETA	1.36E-02	8.39E-04	8.95E-04	
AP	01	551091001	7/28/2021	BETA	2.51E-02	1.10E-03	9.79E-04	
AP	01	552841001	8/11/2021	BETA	2.46E-02	1.13E-03	1.05E-03	
AP	01	554155001	8/25/2021	BETA	2.21E-02	1.07E-03	8.98E-04	
AP	01	555720001	9/9/2021	BETA	3.10E-02	1.22E-03	8.15E-04	
AP	01	556805001	9/22/2021	BETA	2.70E-02	1.26E-03	1.01E-03	
AP	01	560825001	9/22/2021	Ac-228	1.26E-03	6.70E-04	1.58E-03	U
AP	01	560825001	9/22/2021	Ag-108m	-3.29E-05	6.54E-05	2.16E-04	U
AP	01	560825001	9/22/2021	Ag-110m	-9.36E-05	1.42E-04	4.49E-04	U
AP	01	560825001	9/22/2021	Ba-140	-1.95E-02	2.86E-02	9.04E-02	U
AP	01	560825001	9/22/2021	Be-7	1.09E-01	8.01E-03	5.79E-03	
AP	01	560825001	9/22/2021	Ce-141	2.57E-04	6.11E-04	1.80E-03	U
AP	01	560825001	9/22/2021	Ce-144	3.59E-04	5.27E-04	1.69E-03	U
AP	01	560825001	9/22/2021	Co-57	4.55E-05	6.82E-05	2.20E-04	U
AP	01	560825001	9/22/2021	Co-58	2.92E-05	1.94E-04	6.29E-04	U
AP	01	560825001	9/22/2021	Co-60	-1.14E-04	8.90E-05	2.24E-04	U
AP	01	560825001	9/22/2021	Cr-51	-1.19E-03	4.57E-03	1.46E-02	U
AP	01	560825001	9/22/2021	Cs-134	6.37E-05	1.02E-04	3.40E-04	U
AP	01	560825001	9/22/2021	Cs-137	9.72E-05	9.77E-05	2.98E-04	U
AP	01	560825001	9/22/2021	Fe-59	1.02E-03	6.82E-04	2.37E-03	U
AP	01	560825001	9/22/2021	I-131	0.00E+00	1.21E-01	0.00E+00	UI
AP	01	560825001	9/22/2021	K-40	0.00E+00	2.10E-03	2.60E-03	U
AP	01	560825001	9/22/2021	La-140	2.07E-02	1.49E-02	5.26E-02	U
AP	01	560825001	9/22/2021	Mn-54	1.31E-04	1.18E-04	3.57E-04	U
AP	01	560825001	9/22/2021	Nb-95	-3.98E-05	2.17E-04	6.90E-04	U
AP	01	560825001	9/22/2021	Ru-103	2.27E-04	4.39E-04	9.69E-04	U
AP	01	560825001	9/22/2021	Ru-106	4.18E-04	7.77E-04	2.63E-03	U
AP	01	560825001	9/22/2021	Sb-124	3.95E-05	4.47E-04	1.49E-03	U
AP	01	560825001	9/22/2021	Sb-125	7.66E-05	2.28E-04	7.36E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	01	560825001	9/22/2021	Se-75	1.59E-04	1.53E-04	5.14E-04	U
AP	01	560825001	9/22/2021	Th-228	1.58E-04	2.42E-04	6.11E-04	U
AP	01	560825001	9/22/2021	Zn-65	2.83E-04	2.43E-04	7.75E-04	U
AP	01	560825001	9/22/2021	Zr-95	-1.13E-04	3.36E-04	1.05E-03	U
AP	01	558373001	10/6/2021	BETA	2.46E-02	1.22E-03	1.04E-03	
AP	01	560124001	10/21/2021	BETA	2.68E-02	1.28E-03	1.16E-03	
AP	01	561299001	11/2/2021	BETA	2.52E-02	1.38E-03	1.39E-03	
AP	01	562487001	11/17/2021	BETA	2.60E-02	1.00E-03	6.68E-04	
AP	01	563880001	12/1/2021	BETA	2.05E-02	8.95E-04	6.71E-04	
AP	01	565211001	12/15/2021	BETA	2.80E-02	1.11E-03	7.93E-04	
AP	01	566442001	12/29/2021	BETA	3.28E-02	1.20E-03	8.05E-04	
AP	01	568408001	12/29/2021	Ac-228	-1.85E-04	3.90E-04	1.23E-03	U
AP	01	568408001	12/29/2021	Ag-108m	-1.95E-05	4.98E-05	1.61E-04	U
AP	01	568408001	12/29/2021	Ag-110m	-4.43E-05	1.09E-04	3.26E-04	U
AP	01	568408001	12/29/2021	Ba-140	0.00E+00	4.44E-02	4.22E-02	U
AP	01	568408001	12/29/2021	Be-7	9.90E-02	7.50E-03	4.51E-03	
AP	01	568408001	12/29/2021	Ce-141	5.68E-04	7.79E-04	1.08E-03	U
AP	01	568408001	12/29/2021	Ce-144	-2.83E-04	3.42E-04	1.04E-03	U
AP	01	568408001	12/29/2021	Co-57	3.15E-05	4.71E-05	1.57E-04	U
AP	01	568408001	12/29/2021	Co-58	9.64E-06	1.29E-04	4.17E-04	U
AP	01	568408001	12/29/2021	Co-60	-3.95E-05	8.14E-05	2.50E-04	U
AP	01	568408001	12/29/2021	Cr-51	6.53E-03	3.71E-03	1.26E-02	U
AP	01	568408001	12/29/2021	Cs-134	-1.62E-05	7.52E-05	2.35E-04	U
AP	01	568408001	12/29/2021	Cs-137	1.02E-04	8.07E-05	2.77E-04	U
AP	01	568408001	12/29/2021	Fe-59	-4.05E-04	4.47E-04	1.31E-03	U
AP	01	568408001	12/29/2021	I-131	2.61E-02	4.75E-02	1.65E-01	U
AP	01	568408001	12/29/2021	K-40	1.51E-03	1.37E-03	2.26E-03	U
AP	01	568408001	12/29/2021	La-140	-2.19E-03	6.09E-03	1.87E-02	U
AP	01	568408001	12/29/2021	Mn-54	-8.62E-06	7.63E-05	2.41E-04	U
AP	01	568408001	12/29/2021	Nb-95	-1.63E-05	1.47E-04	4.68E-04	U
AP	01	568408001	12/29/2021	Ru-103	-6.74E-05	2.23E-04	7.22E-04	U
AP	01	568408001	12/29/2021	Ru-106	4.95E-04	6.80E-04	2.33E-03	U
AP	01	568408001	12/29/2021	Sb-124	-3.63E-04	4.75E-04	1.33E-03	U
AP	01	568408001	12/29/2021	Sb-125	-1.58E-05	1.64E-04	5.45E-04	U
AP	01	568408001	12/29/2021	Se-75	3.08E-05	1.24E-04	3.93E-04	U
AP	01	568408001	12/29/2021	Th-228	0.00E+00	2.98E-04	4.72E-04	U
AP	01	568408001	12/29/2021	Zn-65	-2.28E-04	2.03E-04	5.72E-04	U
AP	01	568408001	12/29/2021	Zr-95	-4.13E-06	2.05E-04	6.59E-04	U
AP	02	532372002	1/13/2021	BETA	2.00E-02	1.03E-03	9.19E-04	
AP	02	533687002	1/27/2021	BETA	1.16E-02	8.06E-04	9.04E-04	
AP	02	535173002	2/10/2021	BETA	1.66E-02	9.71E-04	1.04E-03	
AP	02	536335002	2/25/2021	BETA	2.54E-02	1.16E-03	9.32E-04	
AP	02	537636002	3/10/2021	BETA	2.52E-02	1.24E-03	1.06E-03	
AP	02	539006002	3/24/2021	BETA	2.95E-02	1.19E-03	8.49E-04	
AP	02	543395002	3/24/2021	Ac-228	4.20E-04	5.09E-04	1.53E-03	U
AP	02	543395002	3/24/2021	Ag-108m	-1.52E-04	6.82E-05	1.39E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	02	543395002	3/24/2021	Ag-110m	2.65E-04	1.85E-04	6.72E-04	U
AP	02	543395002	3/24/2021	Ba-140	3.14E-02	6.59E-02	2.24E-01	U
AP	02	543395002	3/24/2021	Be-7	1.07E-01	9.60E-03	7.63E-03	
AP	02	543395002	3/24/2021	Ce-141	-3.93E-04	7.39E-04	2.31E-03	U
AP	02	543395002	3/24/2021	Ce-144	7.79E-04	5.13E-04	1.70E-03	U
AP	02	543395002	3/24/2021	Co-57	3.87E-05	5.93E-05	2.00E-04	U
AP	02	543395002	3/24/2021	Co-58	-3.44E-04	2.70E-04	6.81E-04	U
AP	02	543395002	3/24/2021	Co-60	-1.05E-04	1.19E-04	3.24E-04	U
AP	02	543395002	3/24/2021	Cr-51	7.01E-03	7.37E-03	2.58E-02	U
AP	02	543395002	3/24/2021	Cs-134	2.70E-04	1.28E-04	4.49E-04	U
AP	02	543395002	3/24/2021	Cs-137	3.49E-05	9.98E-05	3.33E-04	U
AP	02	543395002	3/24/2021	Fe-59	-1.16E-03	8.57E-04	2.14E-03	U
AP	02	543395002	3/24/2021	I-131	-1.36E-01	3.26E-01	0.00E+00	U
AP	02	543395002	3/24/2021	K-40	2.03E-03	2.07E-03	3.62E-03	U
AP	02	543395002	3/24/2021	La-140	2.31E-03	2.85E-02	9.29E-02	U
AP	02	543395002	3/24/2021	Mn-54	-6.47E-05	1.20E-04	3.50E-04	U
AP	02	543395002	3/24/2021	Nb-95	7.02E-04	4.73E-04	9.63E-04	U
AP	02	543395002	3/24/2021	Ru-103	9.53E-04	4.39E-04	1.25E-03	U
AP	02	543395002	3/24/2021	Ru-106	1.34E-04	1.09E-03	3.21E-03	U
AP	02	543395002	3/24/2021	Sb-124	1.63E-04	7.28E-04	2.43E-03	U
AP	02	543395002	3/24/2021	Sb-125	-5.39E-04	2.71E-04	6.59E-04	U
AP	02	543395002	3/24/2021	Se-75	2.01E-05	1.67E-04	5.24E-04	U
AP	02	543395002	3/24/2021	Th-228	3.63E-04	2.70E-04	4.33E-04	U
AP	02	543395002	3/24/2021	Zn-65	-4.92E-05	2.13E-04	6.81E-04	U
AP	02	543395002	3/24/2021	Zr-95	-6.14E-04	4.74E-04	1.07E-03	U
AP	02	540404002	4/7/2021	BETA	1.59E-02	8.81E-04	8.35E-04	
AP	02	541857002	4/21/2021	BETA	1.15E-02	7.63E-04	8.72E-04	
AP	02	544029002	5/5/2021	BETA	2.30E-02	1.09E-03	9.14E-04	
AP	02	545432002	5/19/2021	BETA	1.95E-02	1.01E-03	8.84E-04	
AP	02	546369002	6/2/2021	BETA	2.07E-02	1.03E-03	9.17E-04	
AP	02	547926002	6/16/2021	BETA	2.41E-02	1.15E-03	1.01E-03	
AP	02	548743002	6/29/2021	BETA	2.40E-02	1.17E-03	9.80E-04	
AP	02	552139002	6/29/2021	Ac-228	-1.31E-04	4.09E-04	1.33E-03	U
AP	02	552139002	6/29/2021	Ag-108m	1.99E-06	7.13E-05	2.38E-04	U
AP	02	552139002	6/29/2021	Ag-110m	-1.28E-04	1.48E-04	4.50E-04	U
AP	02	552139002	6/29/2021	Ba-140	1.78E-02	3.51E-02	1.17E-01	U
AP	02	552139002	6/29/2021	Be-7	1.32E-01	8.49E-03	6.84E-03	
AP	02	552139002	6/29/2021	Ce-141	-6.19E-04	6.76E-04	2.16E-03	U
AP	02	552139002	6/29/2021	Ce-144	-3.09E-04	5.04E-04	1.66E-03	U
AP	02	552139002	6/29/2021	Co-57	3.73E-05	6.44E-05	2.21E-04	U
AP	02	552139002	6/29/2021	Co-58	1.27E-04	1.82E-04	6.24E-04	U
AP	02	552139002	6/29/2021	Co-60	1.73E-04	1.01E-04	3.54E-04	U
AP	02	552139002	6/29/2021	Cr-51	-4.78E-03	6.86E-03	2.09E-02	U
AP	02	552139002	6/29/2021	Cs-134	9.00E-05	1.04E-04	3.56E-04	U
AP	02	552139002	6/29/2021	Cs-137	-4.89E-05	8.74E-05	2.68E-04	U
AP	02	552139002	6/29/2021	Fe-59	5.83E-04	7.03E-04	2.37E-03	U
AP	02	552139002	6/29/2021	I-131	0.00E+00	1.77E-01	0.00E+00	UI
AP	02	552139002	6/29/2021	K-40	-7.29E-04	1.53E-03	5.25E-03	U
AP	02	552139002	6/29/2021	La-140	-2.64E-03	1.41E-02	4.51E-02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	02	552139002	6/29/2021	Mn-54	9.46E-06	1.05E-04	3.49E-04	U
AP	02	552139002	6/29/2021	Nb-95	-1.85E-07	2.17E-04	7.27E-04	U
AP	02	552139002	6/29/2021	Ru-103	-5.19E-04	3.55E-04	1.01E-03	U
AP	02	552139002	6/29/2021	Ru-106	1.12E-03	1.01E-03	2.98E-03	U
AP	02	552139002	6/29/2021	Sb-124	-7.70E-04	5.96E-04	1.56E-03	U
AP	02	552139002	6/29/2021	Sb-125	-1.22E-04	2.32E-04	7.49E-04	U
AP	02	552139002	6/29/2021	Se-75	-3.48E-04	1.96E-04	5.32E-04	U
AP	02	552139002	6/29/2021	Th-228	5.22E-04	2.74E-04	6.26E-04	U
AP	02	552139002	6/29/2021	Zn-65	-2.43E-04	2.55E-04	7.40E-04	U
AP	02	552139002	6/29/2021	Zr-95	1.17E-04	3.62E-04	1.23E-03	U
AP	02	549925002	7/13/2021	BETA	1.39E-02	9.20E-04	1.14E-03	
AP	02	551091002	7/28/2021	BETA	2.69E-02	1.21E-03	8.96E-04	
AP	02	552841002	8/11/2021	BETA	3.06E-02	1.34E-03	9.75E-04	
AP	02	554155002	8/25/2021	BETA	2.17E-02	1.13E-03	9.98E-04	
AP	02	555720002	9/9/2021	BETA	3.32E-02	1.38E-03	1.13E-03	
AP	02	556805002	9/22/2021	BETA	2.78E-02	1.38E-03	1.28E-03	
AP	02	560825002	9/22/2021	Ac-228	1.21E-03	1.21E-03	3.57E-03	U
AP	02	560825002	9/22/2021	Ag-108m	-5.09E-05	1.25E-04	4.06E-04	U
AP	02	560825002	9/22/2021	Ag-110m	-9.42E-04	3.97E-04	5.98E-04	U
AP	02	560825002	9/22/2021	Ba-140	-9.15E-02	5.88E-02	1.50E-01	U
AP	02	560825002	9/22/2021	Be-7	1.20E-01	1.24E-02	1.32E-02	
AP	02	560825002	9/22/2021	Ce-141	-2.41E-05	1.03E-03	3.36E-03	U
AP	02	560825002	9/22/2021	Ce-144	-5.48E-05	7.77E-04	2.54E-03	U
AP	02	560825002	9/22/2021	Co-57	1.34E-04	1.04E-04	3.47E-04	U
AP	02	560825002	9/22/2021	Co-58	-4.23E-04	4.51E-04	1.26E-03	U
AP	02	560825002	9/22/2021	Co-60	6.47E-04	2.57E-04	7.44E-04	U
AP	02	560825002	9/22/2021	Cr-51	-2.95E-03	8.87E-03	2.97E-02	U
AP	02	560825002	9/22/2021	Cs-134	-3.75E-05	2.12E-04	6.64E-04	U
AP	02	560825002	9/22/2021	Cs-137	1.86E-04	2.12E-04	7.24E-04	U
AP	02	560825002	9/22/2021	Fe-59	9.22E-04	1.03E-03	3.55E-03	U
AP	02	560825002	9/22/2021	I-131	-1.00E-01	2.47E-01	0.00E+00	U
AP	02	560825002	9/22/2021	K-40	-4.02E-03	3.01E-03	8.73E-03	U
AP	02	560825002	9/22/2021	La-140	8.41E-03	2.85E-02	9.62E-02	U
AP	02	560825002	9/22/2021	Mn-54	1.57E-04	1.85E-04	6.40E-04	U
AP	02	560825002	9/22/2021	Nb-95	-2.72E-04	5.42E-04	1.66E-03	U
AP	02	560825002	9/22/2021	Ru-103	2.11E-05	6.01E-04	2.01E-03	U
AP	02	560825002	9/22/2021	Ru-106	-1.11E-03	1.82E-03	5.55E-03	U
AP	02	560825002	9/22/2021	Sb-124	-1.29E-04	1.14E-03	3.61E-03	U
AP	02	560825002	9/22/2021	Sb-125	-6.36E-04	4.45E-04	1.25E-03	U
AP	02	560825002	9/22/2021	Se-75	-3.71E-04	3.09E-04	8.49E-04	U
AP	02	560825002	9/22/2021	Th-228	5.33E-04	5.46E-04	1.15E-03	U
AP	02	560825002	9/22/2021	Zn-65	4.85E-04	5.65E-04	2.01E-03	U
AP	02	560825002	9/22/2021	Zr-95	4.73E-04	8.34E-04	2.81E-03	U
AP	02	558373002	10/6/2021	BETA	2.30E-02	1.23E-03	1.12E-03	
AP	02	560124002	10/21/2021	BETA	3.21E-02	1.44E-03	1.11E-03	
AP	02	561299002	11/2/2021	BETA	2.77E-02	1.54E-03	1.42E-03	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	02	562487002	11/17/2021	BETA	2.82E-02	1.11E-03	7.91E-04	
AP	02	563880002	12/1/2021	BETA	2.11E-02	9.82E-04	7.80E-04	
AP	02	565211002	12/15/2021	BETA	2.82E-02	1.14E-03	8.72E-04	
AP	02	566442002	12/29/2021	BETA	3.21E-02	1.24E-03	8.86E-04	
AP	02	568408002	12/29/2021	Ac-228	1.40E-04	4.63E-04	1.57E-03	U
AP	02	568408002	12/29/2021	Ag-108m	1.83E-04	8.63E-05	2.33E-04	U
AP	02	568408002	12/29/2021	Ag-110m	1.48E-04	1.36E-04	4.94E-04	U
AP	02	568408002	12/29/2021	Ba-140	-1.72E-02	1.81E-02	5.20E-02	U
AP	02	568408002	12/29/2021	Be-7	9.81E-02	7.50E-03	6.20E-03	
AP	02	568408002	12/29/2021	Ce-141	-7.92E-04	5.67E-04	1.50E-03	U
AP	02	568408002	12/29/2021	Ce-144	1.11E-04	4.84E-04	1.45E-03	U
AP	02	568408002	12/29/2021	Co-57	4.26E-05	5.07E-05	1.69E-04	U
AP	02	568408002	12/29/2021	Co-58	1.40E-04	1.48E-04	5.42E-04	U
AP	02	568408002	12/29/2021	Co-60	-5.99E-05	7.80E-05	2.06E-04	U
AP	02	568408002	12/29/2021	Cr-51	2.03E-03	3.65E-03	1.27E-02	U
AP	02	568408002	12/29/2021	Cs-134	8.36E-05	1.08E-04	3.84E-04	U
AP	02	568408002	12/29/2021	Cs-137	1.47E-04	8.16E-05	2.89E-04	U
AP	02	568408002	12/29/2021	Fe-59	1.11E-04	5.09E-04	1.55E-03	U
AP	02	568408002	12/29/2021	I-131	2.12E-02	5.53E-02	1.72E-01	U
AP	02	568408002	12/29/2021	K-40	7.44E-04	1.45E-03	5.29E-03	U
AP	02	568408002	12/29/2021	La-140	-1.17E-03	7.41E-03	2.30E-02	U
AP	02	568408002	12/29/2021	Mn-54	-4.27E-05	8.57E-05	2.72E-04	U
AP	02	568408002	12/29/2021	Nb-95	-2.55E-05	1.64E-04	5.10E-04	U
AP	02	568408002	12/29/2021	Ru-103	-2.63E-04	2.91E-04	8.60E-04	U
AP	02	568408002	12/29/2021	Ru-106	5.25E-04	8.12E-04	2.76E-03	U
AP	02	568408002	12/29/2021	Sb-124	-7.59E-04	5.47E-04	1.27E-03	U
AP	02	568408002	12/29/2021	Sb-125	4.78E-05	1.99E-04	6.71E-04	U
AP	02	568408002	12/29/2021	Se-75	7.23E-06	1.37E-04	4.70E-04	U
AP	02	568408002	12/29/2021	Th-228	1.85E-04	2.96E-04	5.55E-04	U
AP	02	568408002	12/29/2021	Zn-65	4.09E-06	2.36E-04	7.83E-04	U
AP	02	568408002	12/29/2021	Zr-95	9.47E-05	3.48E-04	1.13E-03	U
AP	03	532372003	1/13/2021	BETA	1.89E-02	1.05E-03	1.02E-03	
AP	03	533687003	1/27/2021	BETA	2.23E-02	1.13E-03	1.02E-03	
AP	03	535173003	2/10/2021	BETA	2.10E-02	1.08E-03	9.88E-04	
AP	03	536335003	2/25/2021	BETA	2.55E-02	1.17E-03	9.50E-04	
AP	03	537636003	3/10/2021	BETA	4.09E-02	1.49E-03	9.72E-04	
AP	03	539006003	3/24/2021	BETA	5.77E-02	1.75E-03	9.77E-04	
AP	03	543395003	3/24/2021	Ac-228	1.37E-04	6.52E-04	2.09E-03	U
AP	03	543395003	3/24/2021	Ag-108m	-4.22E-05	1.01E-04	3.03E-04	U
AP	03	543395003	3/24/2021	Ag-110m	3.56E-04	2.17E-04	7.24E-04	U
AP	03	543395003	3/24/2021	Ba-140	-2.31E-02	4.00E-02	1.21E-01	U
AP	03	543395003	3/24/2021	Be-7	1.78E-01	1.20E-02	8.55E-03	
AP	03	543395003	3/24/2021	Ce-141	-1.18E-03	8.62E-04	2.63E-03	U
AP	03	543395003	3/24/2021	Ce-144	-5.41E-04	6.86E-04	2.23E-03	U
AP	03	543395003	3/24/2021	Co-57	-3.62E-05	8.86E-05	2.97E-04	U
AP	03	543395003	3/24/2021	Co-58	-2.27E-04	2.37E-04	7.23E-04	U
AP	03	543395003	3/24/2021	Co-60	1.52E-04	1.33E-04	4.50E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	03	543395003	3/24/2021	Cr-51	-2.34E-03	7.52E-03	2.35E-02	U
AP	03	543395003	3/24/2021	Cs-134	3.62E-04	2.42E-04	5.11E-04	U
AP	03	543395003	3/24/2021	Cs-137	2.31E-05	1.13E-04	3.68E-04	U
AP	03	543395003	3/24/2021	Fe-59	-2.08E-05	1.02E-03	2.83E-03	U
AP	03	543395003	3/24/2021	I-131	0.00E+00	1.45E-01	0.00E+00	UI
AP	03	543395003	3/24/2021	K-40	0.00E+00	2.07E-03	3.02E-03	U
AP	03	543395003	3/24/2021	La-140	-7.16E-03	1.32E-02	4.04E-02	U
AP	03	543395003	3/24/2021	Mn-54	-4.45E-05	1.39E-04	4.52E-04	U
AP	03	543395003	3/24/2021	Nb-95	1.88E-05	2.43E-04	8.17E-04	U
AP	03	543395003	3/24/2021	Ru-103	7.13E-05	4.14E-04	1.37E-03	U
AP	03	543395003	3/24/2021	Ru-106	-2.70E-04	1.11E-03	3.54E-03	U
AP	03	543395003	3/24/2021	Sb-124	-6.12E-04	5.75E-04	1.53E-03	U
AP	03	543395003	3/24/2021	Sb-125	-5.65E-04	3.19E-04	8.85E-04	U
AP	03	543395003	3/24/2021	Se-75	1.30E-04	2.23E-04	7.27E-04	U
AP	03	543395003	3/24/2021	Th-228	5.13E-04	3.47E-04	6.10E-04	U
AP	03	543395003	3/24/2021	Zn-65	-1.70E-04	3.72E-04	1.16E-03	U
AP	03	543395003	3/24/2021	Zr-95	1.83E-04	4.68E-04	1.60E-03	U
AP	03	540404003	4/7/2021	BETA	3.23E-02	1.30E-03	9.43E-04	
AP	03	541857003	4/21/2021	BETA	2.10E-02	1.08E-03	1.02E-03	
AP	03	544029003	5/5/2021	BETA	4.60E-02	1.59E-03	1.02E-03	
AP	03	545432003	5/19/2021	BETA	3.11E-02	1.32E-03	9.99E-04	
AP	03	546369003	6/2/2021	BETA	3.38E-02	1.35E-03	1.01E-03	
AP	03	547926003	6/16/2021	BETA	4.67E-02	1.65E-03	1.08E-03	
AP	03	548743003	6/29/2021	BETA	4.11E-02	1.60E-03	1.16E-03	
AP	03	552139003	6/29/2021	Ac-228	-1.67E-04	5.31E-04	1.73E-03	U
AP	03	552139003	6/29/2021	Ag-108m	6.41E-05	7.85E-05	2.66E-04	U
AP	03	552139003	6/29/2021	Ag-110m	-2.24E-06	1.66E-04	5.47E-04	U
AP	03	552139003	6/29/2021	Ba-140	-6.02E-02	4.61E-02	1.33E-01	U
AP	03	552139003	6/29/2021	Be-7	2.42E-01	1.47E-02	7.65E-03	
AP	03	552139003	6/29/2021	Ce-141	5.23E-04	8.30E-04	2.82E-03	U
AP	03	552139003	6/29/2021	Ce-144	-1.95E-04	6.34E-04	2.12E-03	U
AP	03	552139003	6/29/2021	Co-57	-2.31E-05	7.46E-05	2.51E-04	U
AP	03	552139003	6/29/2021	Co-58	1.93E-05	1.92E-04	6.45E-04	U
AP	03	552139003	6/29/2021	Co-60	1.31E-04	1.12E-04	3.91E-04	U
AP	03	552139003	6/29/2021	Cr-51	-1.56E-03	7.54E-03	2.37E-02	U
AP	03	552139003	6/29/2021	Cs-134	-1.50E-04	1.18E-04	3.45E-04	U
AP	03	552139003	6/29/2021	Cs-137	-1.29E-04	1.04E-04	2.94E-04	U
AP	03	552139003	6/29/2021	Fe-59	1.07E-03	7.92E-04	2.68E-03	U
AP	03	552139003	6/29/2021	I-131	-2.20E-01	3.28E-01	0.00E+00	U
AP	03	552139003	6/29/2021	K-40	0.00E+00	2.10E-03	3.47E-03	U
AP	03	552139003	6/29/2021	La-140	-2.12E-02	1.76E-02	4.86E-02	U
AP	03	552139003	6/29/2021	Mn-54	1.15E-04	1.30E-04	3.94E-04	U
AP	03	552139003	6/29/2021	Nb-95	5.19E-04	2.71E-04	8.96E-04	U
AP	03	552139003	6/29/2021	Ru-103	-6.67E-04	4.30E-04	1.21E-03	U
AP	03	552139003	6/29/2021	Ru-106	1.03E-03	9.63E-04	3.20E-03	U
AP	03	552139003	6/29/2021	Sb-124	1.48E-03	6.38E-04	2.26E-03	U
AP	03	552139003	6/29/2021	Sb-125	5.21E-04	2.79E-04	9.07E-04	U
AP	03	552139003	6/29/2021	Se-75	-4.04E-04	2.27E-04	6.17E-04	U
AP	03	552139003	6/29/2021	Th-228	3.56E-05	3.34E-04	6.54E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	03	552139003	6/29/2021	Zn-65	-7.04E-05	2.98E-04	9.44E-04	U
AP	03	552139003	6/29/2021	Zr-95	-4.41E-04	4.21E-04	1.28E-03	U
AP	03	549925003	7/13/2021	BETA	3.27E-02	1.40E-03	1.09E-03	
AP	03	551091003	7/28/2021	BETA	4.41E-02	1.59E-03	9.93E-04	
AP	03	552841003	8/11/2021	BETA	1.94E-02	9.35E-04	7.68E-04	
AP	03	554155003	8/25/2021	BETA	1.82E-02	9.51E-04	9.82E-04	
AP	03	555720003	9/9/2021	BETA	2.76E-02	1.16E-03	8.48E-04	
AP	03	556805003	9/22/2021	BETA	2.66E-02	1.22E-03	9.35E-04	
AP	03	560825003	9/22/2021	Ac-228	3.49E-04	4.79E-04	1.55E-03	U
AP	03	560825003	9/22/2021	Ag-108m	0.00E+00	0.00E+00	2.11E-04	U
AP	03	560825003	9/22/2021	Ag-110m	6.60E-05	1.51E-04	4.91E-04	U
AP	03	560825003	9/22/2021	Ba-140	4.04E-02	3.29E-02	1.03E-01	U
AP	03	560825003	9/22/2021	Be-7	1.00E-01	7.69E-03	5.83E-03	
AP	03	560825003	9/22/2021	Ce-141	-6.43E-04	5.96E-04	1.47E-03	U
AP	03	560825003	9/22/2021	Ce-144	-8.76E-04	4.81E-04	1.20E-03	U
AP	03	560825003	9/22/2021	Co-57	5.88E-05	5.49E-05	1.77E-04	U
AP	03	560825003	9/22/2021	Co-58	-1.55E-04	1.68E-04	4.98E-04	U
AP	03	560825003	9/22/2021	Co-60	7.69E-05	1.05E-04	3.68E-04	U
AP	03	560825003	9/22/2021	Cr-51	-1.99E-04	4.82E-03	1.59E-02	U
AP	03	560825003	9/22/2021	Cs-134	-1.24E-04	1.08E-04	3.15E-04	U
AP	03	560825003	9/22/2021	Cs-137	1.25E-06	7.83E-05	2.49E-04	U
AP	03	560825003	9/22/2021	Fe-59	3.97E-04	6.50E-04	2.26E-03	U
AP	03	560825003	9/22/2021	I-131	-9.26E-03	1.12E-01	0.00E+00	U
AP	03	560825003	9/22/2021	K-40	1.58E-03	1.32E-03	4.75E-03	U
AP	03	560825003	9/22/2021	La-140	-1.33E-02	1.20E-02	3.27E-02	U
AP	03	560825003	9/22/2021	Mn-54	-1.11E-04	1.11E-04	3.29E-04	U
AP	03	560825003	9/22/2021	Nb-95	2.73E-04	2.25E-04	7.33E-04	U
AP	03	560825003	9/22/2021	Ru-103	-6.62E-04	4.01E-04	8.46E-04	U
AP	03	560825003	9/22/2021	Ru-106	-4.91E-04	8.09E-04	2.40E-03	U
AP	03	560825003	9/22/2021	Sb-124	-3.95E-04	5.07E-04	1.45E-03	U
AP	03	560825003	9/22/2021	Sb-125	2.15E-04	2.22E-04	7.53E-04	U
AP	03	560825003	9/22/2021	Se-75	1.44E-05	1.17E-04	3.94E-04	U
AP	03	560825003	9/22/2021	Th-228	4.22E-04	2.78E-04	5.13E-04	U
AP	03	560825003	9/22/2021	Zn-65	1.43E-04	2.66E-04	9.14E-04	U
AP	03	560825003	9/22/2021	Zr-95	-2.53E-04	3.03E-04	7.56E-04	U
AP	03	558373003	10/6/2021	BETA	2.09E-02	1.04E-03	9.28E-04	
AP	03	560124003	10/21/2021	BETA	2.36E-02	1.09E-03	8.94E-04	
AP	03	561299003	11/2/2021	BETA	2.35E-02	1.25E-03	1.17E-03	
AP	03	562487003	11/17/2021	BETA	3.11E-02	1.31E-03	1.05E-03	
AP	03	563880003	12/1/2021	BETA	2.54E-02	1.27E-03	1.27E-03	
AP	03	565211003	12/15/2021	BETA	2.46E-02	1.21E-03	1.06E-03	
AP	03	566442003	12/29/2021	BETA	3.08E-02	1.39E-03	1.11E-03	
AP	03	568408003	12/29/2021	Ac-228	1.45E-03	6.20E-04	1.75E-03	U
AP	03	568408003	12/29/2021	Ag-108m	-1.31E-04	9.46E-05	2.62E-04	U
AP	03	568408003	12/29/2021	Ag-110m	3.93E-04	4.02E-04	6.04E-04	U
AP	03	568408003	12/29/2021	Ba-140	-8.41E-03	2.13E-02	6.86E-02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	03	568408003	12/29/2021	Be-7	8.02E-02	6.97E-03	6.38E-03	
AP	03	568408003	12/29/2021	Ce-141	2.72E-04	4.41E-04	1.45E-03	U
AP	03	568408003	12/29/2021	Ce-144	5.91E-05	4.41E-04	1.44E-03	U
AP	03	568408003	12/29/2021	Co-57	-1.01E-04	6.23E-05	1.71E-04	U
AP	03	568408003	12/29/2021	Co-58	-1.69E-04	1.72E-04	4.77E-04	U
AP	03	568408003	12/29/2021	Co-60	2.00E-04	1.20E-04	4.40E-04	U
AP	03	568408003	12/29/2021	Cr-51	-7.04E-03	4.45E-03	1.29E-02	U
AP	03	568408003	12/29/2021	Cs-134	0.00E+00	2.14E-04	4.10E-04	U
AP	03	568408003	12/29/2021	Cs-137	1.14E-04	9.28E-05	3.22E-04	U
AP	03	568408003	12/29/2021	Fe-59	-1.37E-04	5.66E-04	1.87E-03	U
AP	03	568408003	12/29/2021	I-131	-7.16E-02	6.48E-02	1.88E-01	U
AP	03	568408003	12/29/2021	K-40	0.00E+00	1.61E-03	1.74E-03	U
AP	03	568408003	12/29/2021	La-140	3.12E-03	8.78E-03	3.01E-02	U
AP	03	568408003	12/29/2021	Mn-54	2.25E-04	1.41E-04	4.77E-04	U
AP	03	568408003	12/29/2021	Nb-95	-4.86E-05	1.95E-04	6.16E-04	U
AP	03	568408003	12/29/2021	Ru-103	-9.87E-05	2.95E-04	9.58E-04	U
AP	03	568408003	12/29/2021	Ru-106	8.18E-04	9.74E-04	3.34E-03	U
AP	03	568408003	12/29/2021	Sb-124	-1.98E-04	4.99E-04	1.52E-03	U
AP	03	568408003	12/29/2021	Sb-125	8.04E-05	2.11E-04	7.27E-04	U
AP	03	568408003	12/29/2021	Se-75	1.08E-04	1.49E-04	4.80E-04	U
AP	03	568408003	12/29/2021	Th-228	4.86E-04	2.02E-04	5.75E-04	U
AP	03	568408003	12/29/2021	Zn-65	1.32E-04	2.22E-04	7.23E-04	U
AP	03	568408003	12/29/2021	Zr-95	1.37E-04	2.95E-04	1.00E-03	U
AP	04	532372004	1/13/2021	BETA	2.31E-02	1.07E-03	8.77E-04	
AP	04	533687004	1/27/2021	BETA	2.68E-02	1.15E-03	8.61E-04	
AP	04	535173004	2/10/2021	BETA	2.60E-02	1.12E-03	9.19E-04	
AP	04	536335004	2/25/2021	BETA	3.07E-02	1.03E-03	6.25E-04	
AP	04	537636004	3/10/2021	BETA	2.80E-02	1.07E-03	7.72E-04	
AP	04	539006004	3/24/2021	BETA	3.53E-02	1.24E-03	7.68E-04	
AP	04	543395004	3/24/2021	Ac-228	1.54E-03	9.99E-04	2.53E-03	U
AP	04	543395004	3/24/2021	Ag-108m	5.91E-05	1.11E-04	3.53E-04	U
AP	04	543395004	3/24/2021	Ag-110m	-6.45E-05	2.03E-04	6.22E-04	U
AP	04	543395004	3/24/2021	Ba-140	-1.65E-02	4.15E-02	1.34E-01	U
AP	04	543395004	3/24/2021	Be-7	1.39E-01	1.15E-02	9.76E-03	
AP	04	543395004	3/24/2021	Ce-141	-6.43E-04	7.43E-04	2.31E-03	U
AP	04	543395004	3/24/2021	Ce-144	-4.77E-05	5.24E-04	1.73E-03	U
AP	04	543395004	3/24/2021	Co-57	-3.27E-05	6.84E-05	2.22E-04	U
AP	04	543395004	3/24/2021	Co-58	1.28E-04	2.95E-04	9.93E-04	U
AP	04	543395004	3/24/2021	Co-60	2.86E-04	1.99E-04	6.96E-04	U
AP	04	543395004	3/24/2021	Cr-51	4.40E-03	7.65E-03	2.47E-02	U
AP	04	543395004	3/24/2021	Cs-134	1.11E-04	1.63E-04	5.57E-04	U
AP	04	543395004	3/24/2021	Cs-137	1.72E-04	1.44E-04	5.01E-04	U
AP	04	543395004	3/24/2021	Fe-59	3.21E-04	1.04E-03	3.62E-03	U
AP	04	543395004	3/24/2021	I-131	0.00E+00	1.70E-01	0.00E+00	UI
AP	04	543395004	3/24/2021	K-40	2.75E-03	2.15E-03	3.53E-03	U
AP	04	543395004	3/24/2021	La-140	-6.29E-03	1.82E-02	5.60E-02	U
AP	04	543395004	3/24/2021	Mn-54	0.00E+00	2.06E-04	5.35E-04	U
AP	04	543395004	3/24/2021	Nb-95	1.45E-04	3.15E-04	1.06E-03	U
AP	04	543395004	3/24/2021	Ru-103	2.79E-04	4.32E-04	1.51E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	04	543395004	3/24/2021	Ru-106	-4.17E-04	1.46E-03	4.69E-03	U
AP	04	543395004	3/24/2021	Sb-124	-6.41E-04	7.53E-04	1.92E-03	U
AP	04	543395004	3/24/2021	Sb-125	6.68E-04	3.66E-04	1.19E-03	U
AP	04	543395004	3/24/2021	Se-75	-5.57E-05	2.26E-04	7.07E-04	U
AP	04	543395004	3/24/2021	Th-228	2.19E-04	3.27E-04	8.30E-04	U
AP	04	543395004	3/24/2021	Zn-65	-8.61E-04	5.67E-04	1.23E-03	U
AP	04	543395004	3/24/2021	Zr-95	-4.78E-04	5.27E-04	1.49E-03	U
AP	04	540404004	4/7/2021	BETA	2.07E-02	1.02E-03	8.84E-04	
AP	04	541857004	4/21/2021	BETA	1.79E-02	9.93E-04	9.72E-04	
AP	04	544029004	5/5/2021	BETA	3.79E-02	1.72E-03	1.33E-03	
AP	04	545432004	5/19/2021	BETA	2.31E-02	1.27E-03	1.17E-03	
AP	04	546369004	6/2/2021	BETA	2.59E-02	1.24E-03	1.12E-03	
AP	04	547926004	6/16/2021	BETA	3.30E-02	1.41E-03	1.08E-03	
AP	04	548743004	6/29/2021	BETA	3.13E-02	1.35E-03	1.06E-03	
AP	04	552139004	6/29/2021	Ac-228	1.47E-04	8.46E-04	2.85E-03	U
AP	04	552139004	6/29/2021	Ag-108m	-1.23E-05	1.10E-04	3.67E-04	U
AP	04	552139004	6/29/2021	Ag-110m	2.89E-04	2.67E-04	9.30E-04	U
AP	04	552139004	6/29/2021	Ba-140	-1.94E-02	6.52E-02	2.10E-01	U
AP	04	552139004	6/29/2021	Be-7	1.64E-01	1.47E-02	1.17E-02	
AP	04	552139004	6/29/2021	Ce-141	-1.38E-03	1.04E-03	2.97E-03	U
AP	04	552139004	6/29/2021	Ce-144	-7.76E-04	7.41E-04	2.22E-03	U
AP	04	552139004	6/29/2021	Co-57	-5.90E-05	8.49E-05	2.66E-04	U
AP	04	552139004	6/29/2021	Co-58	-3.01E-05	3.54E-04	1.12E-03	U
AP	04	552139004	6/29/2021	Co-60	-5.97E-05	2.20E-04	6.97E-04	U
AP	04	552139004	6/29/2021	Cr-51	1.27E-02	8.95E-03	3.05E-02	U
AP	04	552139004	6/29/2021	Cs-134	4.55E-04	3.78E-04	7.07E-04	U
AP	04	552139004	6/29/2021	Cs-137	-2.35E-05	1.73E-04	4.92E-04	U
AP	04	552139004	6/29/2021	Fe-59	8.83E-04	1.26E-03	4.10E-03	U
AP	04	552139004	6/29/2021	I-131	-3.77E-01	3.10E-01	0.00E+00	U
AP	04	552139004	6/29/2021	K-40	-2.14E-03	2.04E-03	6.28E-03	U
AP	04	552139004	6/29/2021	La-140	4.69E-03	3.29E-02	1.09E-01	U
AP	04	552139004	6/29/2021	Mn-54	-1.55E-04	2.32E-04	6.84E-04	U
AP	04	552139004	6/29/2021	Nb-95	5.11E-04	4.15E-04	1.44E-03	U
AP	04	552139004	6/29/2021	Ru-103	-7.12E-05	6.72E-04	1.98E-03	U
AP	04	552139004	6/29/2021	Ru-106	9.88E-04	1.77E-03	6.01E-03	U
AP	04	552139004	6/29/2021	Sb-124	-1.07E-03	1.19E-03	3.11E-03	U
AP	04	552139004	6/29/2021	Sb-125	-1.90E-04	4.54E-04	1.48E-03	U
AP	04	552139004	6/29/2021	Se-75	2.65E-04	2.47E-04	8.09E-04	U
AP	04	552139004	6/29/2021	Th-228	0.00E+00	6.04E-04	1.00E-03	U
AP	04	552139004	6/29/2021	Zn-65	6.12E-04	4.73E-04	1.72E-03	U
AP	04	552139004	6/29/2021	Zr-95	8.55E-04	6.79E-04	2.39E-03	U
AP	04	549925004	7/13/2021	BETA	2.56E-02	1.19E-03	1.02E-03	
AP	04	551091004	7/28/2021	BETA	2.96E-02	1.31E-03	9.86E-04	
AP	04	552841004	8/11/2021	BETA	3.63E-02	1.36E-03	8.79E-04	
AP	04	554155004	8/25/2021	BETA	3.63E-02	1.42E-03	9.93E-04	
AP	04	555720004	9/9/2021	BETA	4.71E-02	1.54E-03	8.68E-04	
AP	04	556805004	9/22/2021	BETA	3.99E-02	1.48E-03	9.36E-04	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	04	560825004	9/22/2021	Ac-228	-4.01E-04	5.50E-04	1.59E-03	U
AP	04	560825004	9/22/2021	Ag-108m	-1.46E-04	7.64E-05	1.82E-04	U
AP	04	560825004	9/22/2021	Ag-110m	9.62E-05	1.57E-04	5.58E-04	U
AP	04	560825004	9/22/2021	Ba-140	8.53E-03	3.12E-02	9.47E-02	U
AP	04	560825004	9/22/2021	Be-7	1.56E-01	1.16E-02	7.64E-03	
AP	04	560825004	9/22/2021	Ce-141	-1.74E-04	4.71E-04	1.51E-03	U
AP	04	560825004	9/22/2021	Ce-144	4.20E-04	4.69E-04	1.61E-03	U
AP	04	560825004	9/22/2021	Co-57	-4.23E-05	5.94E-05	1.89E-04	U
AP	04	560825004	9/22/2021	Co-58	1.59E-04	2.27E-04	7.37E-04	U
AP	04	560825004	9/22/2021	Co-60	8.95E-05	1.27E-04	4.46E-04	U
AP	04	560825004	9/22/2021	Cr-51	-2.49E-03	5.61E-03	1.86E-02	U
AP	04	560825004	9/22/2021	Cs-134	-6.15E-05	1.11E-04	3.48E-04	U
AP	04	560825004	9/22/2021	Cs-137	1.50E-04	1.12E-04	3.87E-04	U
AP	04	560825004	9/22/2021	Fe-59	-3.97E-05	7.51E-04	2.44E-03	U
AP	04	560825004	9/22/2021	I-131	0.00E+00	1.44E-01	0.00E+00	UI
AP	04	560825004	9/22/2021	K-40	3.84E-03	1.83E-03	6.56E-03	U
AP	04	560825004	9/22/2021	La-140	7.33E-04	1.34E-02	4.49E-02	U
AP	04	560825004	9/22/2021	Mn-54	3.53E-05	1.25E-04	4.04E-04	U
AP	04	560825004	9/22/2021	Nb-95	-5.55E-05	2.45E-04	8.13E-04	U
AP	04	560825004	9/22/2021	Ru-103	2.44E-04	3.57E-04	1.13E-03	U
AP	04	560825004	9/22/2021	Ru-106	7.94E-04	9.44E-04	3.25E-03	U
AP	04	560825004	9/22/2021	Sb-124	7.06E-04	8.15E-04	2.97E-03	U
AP	04	560825004	9/22/2021	Sb-125	5.56E-05	2.52E-04	8.32E-04	U
AP	04	560825004	9/22/2021	Se-75	-2.03E-04	1.90E-04	5.34E-04	U
AP	04	560825004	9/22/2021	Th-228	3.56E-04	3.29E-04	5.68E-04	U
AP	04	560825004	9/22/2021	Zn-65	-1.51E-04	3.08E-04	9.34E-04	U
AP	04	560825004	9/22/2021	Zr-95	-5.91E-05	3.98E-04	1.33E-03	U
AP	04	558373004	10/6/2021	BETA	2.77E-02	1.20E-03	1.02E-03	
AP	04	560124004	10/21/2021	BETA	3.48E-02	1.26E-03	8.12E-04	
AP	04	561299004	11/2/2021	BETA	3.24E-02	1.36E-03	1.01E-03	
AP	04	562487004	11/17/2021	BETA	4.18E-02	1.43E-03	8.82E-04	
AP	04	563880004	12/1/2021	BETA	3.10E-02	1.29E-03	9.24E-04	
AP	04	565211004	12/15/2021	BETA	3.43E-02	1.32E-03	9.33E-04	
AP	04	566442004	12/29/2021	BETA	3.90E-02	1.42E-03	1.03E-03	
AP	04	568408004	12/29/2021	Ac-228	3.88E-04	4.54E-04	1.44E-03	U
AP	04	568408004	12/29/2021	Ag-108m	2.15E-04	1.08E-04	2.36E-04	U
AP	04	568408004	12/29/2021	Ag-110m	-2.03E-04	1.73E-04	3.93E-04	U
AP	04	568408004	12/29/2021	Ba-140	-1.26E-02	2.07E-02	5.79E-02	U
AP	04	568408004	12/29/2021	Be-7	1.18E-01	8.69E-03	4.82E-03	
AP	04	568408004	12/29/2021	Ce-141	8.03E-04	6.36E-04	1.21E-03	U
AP	04	568408004	12/29/2021	Ce-144	-4.39E-04	3.12E-04	8.78E-04	U
AP	04	568408004	12/29/2021	Co-57	5.06E-05	4.66E-05	1.61E-04	U
AP	04	568408004	12/29/2021	Co-58	-2.96E-04	1.81E-04	4.55E-04	U
AP	04	568408004	12/29/2021	Co-60	1.36E-04	1.49E-04	4.70E-04	U
AP	04	568408004	12/29/2021	Cr-51	2.10E-03	3.44E-03	1.21E-02	U
AP	04	568408004	12/29/2021	Cs-134	-5.69E-05	9.25E-05	2.89E-04	U
AP	04	568408004	12/29/2021	Cs-137	-2.38E-05	7.56E-05	2.32E-04	U
AP	04	568408004	12/29/2021	Fe-59	-3.82E-04	4.90E-04	1.38E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	04	568408004	12/29/2021	I-131	-3.93E-02	5.77E-02	1.85E-01	U
AP	04	568408004	12/29/2021	K-40	2.66E-03	2.08E-03	3.21E-03	U
AP	04	568408004	12/29/2021	La-140	-4.18E-03	8.23E-03	2.51E-02	U
AP	04	568408004	12/29/2021	Mn-54	1.04E-04	1.05E-04	3.74E-04	U
AP	04	568408004	12/29/2021	Nb-95	9.52E-05	1.89E-04	6.65E-04	U
AP	04	568408004	12/29/2021	Ru-103	-4.27E-04	2.73E-04	7.00E-04	U
AP	04	568408004	12/29/2021	Ru-106	-4.25E-04	8.65E-04	2.64E-03	U
AP	04	568408004	12/29/2021	Sb-124	-7.21E-04	5.23E-04	1.14E-03	U
AP	04	568408004	12/29/2021	Sb-125	6.10E-05	2.16E-04	6.64E-04	U
AP	04	568408004	12/29/2021	Se-75	5.73E-05	1.45E-04	4.65E-04	U
AP	04	568408004	12/29/2021	Th-228	3.88E-04	2.15E-04	5.41E-04	U
AP	04	568408004	12/29/2021	Zn-65	5.23E-05	2.48E-04	8.29E-04	U
AP	04	568408004	12/29/2021	Zr-95	5.23E-04	3.52E-04	1.27E-03	U
AP	05	532372005	1/13/2021	BETA	2.02E-02	1.06E-03	9.54E-04	
AP	05	533687005	1/27/2021	BETA	2.34E-02	1.14E-03	9.95E-04	
AP	05	535173005	2/10/2021	BETA	1.87E-02	1.06E-03	1.12E-03	
AP	05	536335005	2/25/2021	BETA	2.92E-02	1.24E-03	9.43E-04	
AP	05	537636005	3/10/2021	BETA	2.61E-02	1.28E-03	1.11E-03	
AP	05	539006005	3/24/2021	BETA	3.44E-02	1.21E-03	7.33E-04	
AP	05	543395005	3/24/2021	Ac-228	-1.54E-04	4.92E-04	1.57E-03	U
AP	05	543395005	3/24/2021	Ag-108m	-3.51E-05	6.75E-05	2.11E-04	U
AP	05	543395005	3/24/2021	Ag-110m	-1.57E-04	1.66E-04	4.94E-04	U
AP	05	543395005	3/24/2021	Ba-140	0.00E+00	3.84E-02	9.12E-02	U
AP	05	543395005	3/24/2021	Be-7	1.38E-01	1.08E-02	6.73E-03	
AP	05	543395005	3/24/2021	Ce-141	-2.25E-04	5.85E-04	1.79E-03	U
AP	05	543395005	3/24/2021	Ce-144	1.89E-04	4.02E-04	1.29E-03	U
AP	05	543395005	3/24/2021	Co-57	-4.57E-05	5.02E-05	1.46E-04	U
AP	05	543395005	3/24/2021	Co-58	0.00E+00	0.00E+00	7.19E-04	U
AP	05	543395005	3/24/2021	Co-60	2.98E-05	1.34E-04	4.50E-04	U
AP	05	543395005	3/24/2021	Cr-51	-1.03E-02	5.71E-03	1.53E-02	U
AP	05	543395005	3/24/2021	Cs-134	1.11E-04	1.19E-04	4.26E-04	U
AP	05	543395005	3/24/2021	Cs-137	5.90E-05	9.61E-05	3.23E-04	U
AP	05	543395005	3/24/2021	Fe-59	-1.56E-04	7.60E-04	2.47E-03	U
AP	05	543395005	3/24/2021	I-131	0.00E+00	1.22E-01	0.00E+00	UI
AP	05	543395005	3/24/2021	K-40	1.09E-03	1.63E-03	5.77E-03	U
AP	05	543395005	3/24/2021	La-140	2.92E-03	1.04E-02	3.53E-02	U
AP	05	543395005	3/24/2021	Mn-54	6.71E-05	1.28E-04	4.49E-04	U
AP	05	543395005	3/24/2021	Nb-95	-4.94E-04	3.21E-04	6.47E-04	U
AP	05	543395005	3/24/2021	Ru-103	-9.03E-06	3.15E-04	1.03E-03	U
AP	05	543395005	3/24/2021	Ru-106	-1.46E-03	1.13E-03	2.93E-03	U
AP	05	543395005	3/24/2021	Sb-124	2.01E-04	4.85E-04	1.70E-03	U
AP	05	543395005	3/24/2021	Sb-125	-2.60E-04	2.29E-04	6.60E-04	U
AP	05	543395005	3/24/2021	Se-75	1.33E-04	1.56E-04	5.26E-04	U
AP	05	543395005	3/24/2021	Th-228	0.00E+00	2.25E-04	3.98E-04	U
AP	05	543395005	3/24/2021	Zn-65	-2.36E-04	2.77E-04	8.09E-04	U
AP	05	543395005	3/24/2021	Zr-95	-1.65E-04	4.04E-04	1.22E-03	U
AP	05	540404005	4/7/2021	BETA	2.17E-02	1.00E-03	8.09E-04	
AP	05	541857005	4/21/2021	BETA	1.33E-02	7.91E-04	8.13E-04	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	05	544029005	5/5/2021	BETA	2.60E-02	1.12E-03	1.01E-03	
AP	05	545432005	5/19/2021	BETA	2.05E-02	9.96E-04	8.73E-04	
AP	05	546369005	6/2/2021	BETA	2.34E-02	1.10E-03	9.50E-04	
AP	05	547926005	6/16/2021	BETA	2.32E-02	1.08E-03	8.67E-04	
AP	05	548743005	6/29/2021	BETA	2.50E-02	1.20E-03	1.04E-03	
AP	05	552139005	6/29/2021	Ac-228	2.31E-04	4.36E-04	1.38E-03	U
AP	05	552139005	6/29/2021	Ag-108m	-6.49E-07	6.68E-05	2.22E-04	U
AP	05	552139005	6/29/2021	Ag-110m	-1.48E-04	1.40E-04	4.13E-04	U
AP	05	552139005	6/29/2021	Ba-140	4.03E-02	3.57E-02	1.20E-01	U
AP	05	552139005	6/29/2021	Be-7	1.25E-01	8.85E-03	6.04E-03	
AP	05	552139005	6/29/2021	Ce-141	6.60E-04	7.07E-04	2.39E-03	U
AP	05	552139005	6/29/2021	Ce-144	-3.07E-04	4.83E-04	1.58E-03	U
AP	05	552139005	6/29/2021	Co-57	-7.13E-06	6.18E-05	2.10E-04	U
AP	05	552139005	6/29/2021	Co-58	7.74E-05	1.74E-04	5.94E-04	U
AP	05	552139005	6/29/2021	Co-60	-2.51E-05	9.59E-05	3.11E-04	U
AP	05	552139005	6/29/2021	Cr-51	-8.73E-03	7.55E-03	1.91E-02	U
AP	05	552139005	6/29/2021	Cs-134	3.15E-05	9.86E-05	3.34E-04	U
AP	05	552139005	6/29/2021	Cs-137	-1.54E-05	8.74E-05	2.77E-04	U
AP	05	552139005	6/29/2021	Fe-59	-9.56E-04	7.05E-04	1.91E-03	U
AP	05	552139005	6/29/2021	I-131	0.00E+00	1.91E-01	0.00E+00	UI
AP	05	552139005	6/29/2021	K-40	2.59E-03	2.26E-03	2.80E-03	U
AP	05	552139005	6/29/2021	La-140	2.36E-03	1.60E-02	5.29E-02	U
AP	05	552139005	6/29/2021	Mn-54	1.60E-04	1.13E-04	3.82E-04	U
AP	05	552139005	6/29/2021	Nb-95	8.45E-05	2.08E-04	6.91E-04	U
AP	05	552139005	6/29/2021	Ru-103	-4.68E-04	3.77E-04	1.11E-03	U
AP	05	552139005	6/29/2021	Ru-106	1.23E-03	9.38E-04	3.08E-03	U
AP	05	552139005	6/29/2021	Sb-124	3.37E-04	6.35E-04	1.89E-03	U
AP	05	552139005	6/29/2021	Sb-125	2.37E-04	2.29E-04	7.73E-04	U
AP	05	552139005	6/29/2021	Se-75	-8.17E-05	1.64E-04	5.14E-04	U
AP	05	552139005	6/29/2021	Th-228	5.37E-04	3.07E-04	6.16E-04	U
AP	05	552139005	6/29/2021	Zn-65	-6.41E-04	3.02E-04	6.89E-04	U
AP	05	552139005	6/29/2021	Zr-95	0.00E+00	8.79E-04	1.24E-03	U
AP	05	549925005	7/13/2021	BETA	1.85E-02	9.99E-04	9.54E-04	
AP	05	551091005	7/28/2021	BETA	2.45E-02	1.13E-03	1.06E-03	
AP	05	552841005	8/11/2021	BETA	3.18E-02	1.33E-03	1.14E-03	
AP	05	554155005	8/25/2021	BETA	2.54E-02	1.19E-03	9.66E-04	
AP	05	555720005	9/9/2021	BETA	3.47E-02	1.32E-03	8.59E-04	
AP	05	556805005	9/22/2021	BETA	3.37E-02	1.40E-03	1.01E-03	
AP	05	560825005	9/22/2021	Ac-228	8.04E-04	8.09E-04	1.78E-03	U
AP	05	560825005	9/22/2021	Ag-108m	-6.84E-06	7.62E-05	2.40E-04	U
AP	05	560825005	9/22/2021	Ag-110m	1.38E-04	1.94E-04	6.58E-04	U
AP	05	560825005	9/22/2021	Ba-140	-3.63E-03	3.39E-02	1.13E-01	U
AP	05	560825005	9/22/2021	Be-7	1.27E-01	9.71E-03	6.09E-03	
AP	05	560825005	9/22/2021	Ce-141	8.26E-04	7.98E-04	1.87E-03	U
AP	05	560825005	9/22/2021	Ce-144	-5.84E-04	5.17E-04	1.60E-03	U
AP	05	560825005	9/22/2021	Co-57	5.13E-06	6.35E-05	2.15E-04	U
AP	05	560825005	9/22/2021	Co-58	-1.96E-04	2.05E-04	5.91E-04	U
AP	05	560825005	9/22/2021	Co-60	7.64E-05	1.12E-04	3.99E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	05	560825005	9/22/2021	Cr-51	-6.24E-03	5.62E-03	1.63E-02	U
AP	05	560825005	9/22/2021	Cs-134	8.87E-06	1.34E-04	4.19E-04	U
AP	05	560825005	9/22/2021	Cs-137	1.96E-04	1.67E-04	3.22E-04	U
AP	05	560825005	9/22/2021	Fe-59	-1.21E-03	7.77E-04	1.83E-03	U
AP	05	560825005	9/22/2021	I-131	0.00E+00	1.32E-01	0.00E+00	UI
AP	05	560825005	9/22/2021	K-40	2.08E-03	2.31E-03	3.97E-03	U
AP	05	560825005	9/22/2021	La-140	-1.68E-02	1.41E-02	3.70E-02	U
AP	05	560825005	9/22/2021	Mn-54	6.53E-05	1.32E-04	4.44E-04	U
AP	05	560825005	9/22/2021	Nb-95	-6.07E-06	2.43E-04	7.00E-04	U
AP	05	560825005	9/22/2021	Ru-103	-2.75E-04	3.79E-04	1.21E-03	U
AP	05	560825005	9/22/2021	Ru-106	9.00E-04	1.05E-03	3.62E-03	U
AP	05	560825005	9/22/2021	Sb-124	-4.34E-04	6.15E-04	1.77E-03	U
AP	05	560825005	9/22/2021	Sb-125	6.06E-06	2.48E-04	7.89E-04	U
AP	05	560825005	9/22/2021	Se-75	-9.70E-06	1.80E-04	5.87E-04	U
AP	05	560825005	9/22/2021	Th-228	6.81E-04	2.67E-04	4.30E-04	
AP	05	560825005	9/22/2021	Zn-65	5.39E-04	3.46E-04	1.11E-03	U
AP	05	560825005	9/22/2021	Zr-95	-1.59E-05	5.57E-04	1.60E-03	U
AP	05	558373005	10/6/2021	BETA	2.48E-02	1.25E-03	1.10E-03	
AP	05	560124005	10/21/2021	BETA	2.73E-02	1.21E-03	1.02E-03	
AP	05	561299005	11/2/2021	BETA	2.82E-02	1.40E-03	1.30E-03	
AP	05	562487005	11/17/2021	BETA	3.00E-02	1.29E-03	9.41E-04	
AP	05	563880005	12/1/2021	BETA	2.64E-02	1.26E-03	1.03E-03	
AP	05	565211005	12/15/2021	BETA	3.02E-02	1.39E-03	1.14E-03	
AP	05	566442005	12/29/2021	BETA	3.40E-02	1.49E-03	1.19E-03	
AP	05	568408005	12/29/2021	Ac-228	1.12E-03	9.34E-04	3.19E-03	U
AP	05	568408005	12/29/2021	Ag-108m	-8.77E-05	1.15E-04	3.58E-04	U
AP	05	568408005	12/29/2021	Ag-110m	-4.58E-05	2.91E-04	9.08E-04	U
AP	05	568408005	12/29/2021	Ba-140	1.73E-02	4.09E-02	1.17E-01	U
AP	05	568408005	12/29/2021	Be-7	1.13E-01	1.05E-02	9.48E-03	
AP	05	568408005	12/29/2021	Ce-141	-1.99E-03	8.80E-04	2.07E-03	U
AP	05	568408005	12/29/2021	Ce-144	1.61E-03	1.11E-03	2.33E-03	U
AP	05	568408005	12/29/2021	Co-57	5.25E-05	8.69E-05	2.91E-04	U
AP	05	568408005	12/29/2021	Co-58	-5.69E-04	3.80E-04	9.26E-04	U
AP	05	568408005	12/29/2021	Co-60	2.52E-07	2.13E-04	7.03E-04	U
AP	05	568408005	12/29/2021	Cr-51	3.85E-03	6.62E-03	2.32E-02	U
AP	05	568408005	12/29/2021	Cs-134	-5.31E-05	2.11E-04	6.57E-04	U
AP	05	568408005	12/29/2021	Cs-137	-1.08E-05	1.41E-04	4.56E-04	U
AP	05	568408005	12/29/2021	Fe-59	1.06E-03	9.25E-04	3.41E-03	U
AP	05	568408005	12/29/2021	I-131	-3.54E-02	1.00E-01	3.32E-01	U
AP	05	568408005	12/29/2021	K-40	4.55E-03	2.94E-03	5.79E-03	U
AP	05	568408005	12/29/2021	La-140	-2.24E-02	1.28E-02	1.96E-02	U
AP	05	568408005	12/29/2021	Mn-54	-1.57E-04	1.97E-04	5.61E-04	U
AP	05	568408005	12/29/2021	Nb-95	-4.06E-04	2.92E-04	6.91E-04	U
AP	05	568408005	12/29/2021	Ru-103	-2.49E-04	5.32E-04	1.49E-03	U
AP	05	568408005	12/29/2021	Ru-106	-6.94E-04	1.79E-03	5.66E-03	U
AP	05	568408005	12/29/2021	Sb-124	-1.04E-04	1.14E-03	3.62E-03	U
AP	05	568408005	12/29/2021	Sb-125	7.60E-06	4.07E-04	1.37E-03	U
AP	05	568408005	12/29/2021	Se-75	5.05E-05	2.31E-04	7.35E-04	U
AP	05	568408005	12/29/2021	Th-228	9.90E-04	4.37E-04	1.02E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	05	568408005	12/29/2021	Zn-65	-3.40E-04	4.87E-04	1.49E-03	U
AP	05	568408005	12/29/2021	Zr-95	4.35E-04	6.59E-04	2.23E-03	U
AP	07	532372006	1/13/2021	BETA	2.13E-02	1.07E-03	9.33E-04	
AP	07	533687006	1/27/2021	BETA	2.43E-02	1.14E-03	9.29E-04	
AP	07	535173006	2/10/2021	BETA	2.02E-02	1.09E-03	1.10E-03	
AP	07	536335006	2/25/2021	BETA	2.94E-02	1.28E-03	9.86E-04	
AP	07	537636006	3/10/2021	BETA	2.26E-02	1.26E-03	1.19E-03	
AP	07	539006006	3/24/2021	BETA	3.21E-02	1.20E-03	8.00E-04	
AP	07	543395006	3/24/2021	Ac-228	5.09E-04	6.12E-04	2.05E-03	U
AP	07	543395006	3/24/2021	Ag-108m	-1.86E-05	8.09E-05	2.51E-04	U
AP	07	543395006	3/24/2021	Ag-110m	1.04E-04	2.04E-04	7.02E-04	U
AP	07	543395006	3/24/2021	Ba-140	-2.73E-02	3.01E-02	8.92E-02	U
AP	07	543395006	3/24/2021	Be-7	1.13E-01	9.48E-03	6.70E-03	
AP	07	543395006	3/24/2021	Ce-141	-6.87E-05	5.26E-04	1.68E-03	U
AP	07	543395006	3/24/2021	Ce-144	3.96E-04	3.97E-04	1.34E-03	U
AP	07	543395006	3/24/2021	Co-57	1.10E-04	8.37E-05	1.81E-04	U
AP	07	543395006	3/24/2021	Co-58	3.02E-05	2.22E-04	7.54E-04	U
AP	07	543395006	3/24/2021	Co-60	-1.46E-04	1.15E-04	2.84E-04	U
AP	07	543395006	3/24/2021	Cr-51	-8.15E-04	4.75E-03	1.54E-02	U
AP	07	543395006	3/24/2021	Cs-134	-4.42E-05	1.21E-04	3.91E-04	U
AP	07	543395006	3/24/2021	Cs-137	2.04E-04	1.21E-04	4.14E-04	U
AP	07	543395006	3/24/2021	Fe-59	1.20E-03	8.47E-04	3.01E-03	U
AP	07	543395006	3/24/2021	I-131	0.00E+00	1.29E-01	0.00E+00	UI
AP	07	543395006	3/24/2021	K-40	3.09E-03	2.37E-03	4.88E-03	U
AP	07	543395006	3/24/2021	La-140	1.16E-02	1.44E-02	5.13E-02	U
AP	07	543395006	3/24/2021	Mn-54	-1.92E-05	1.45E-04	4.14E-04	U
AP	07	543395006	3/24/2021	Nb-95	1.13E-04	3.48E-04	1.05E-03	U
AP	07	543395006	3/24/2021	Ru-103	-3.42E-04	3.98E-04	1.21E-03	U
AP	07	543395006	3/24/2021	Ru-106	9.22E-04	1.08E-03	3.71E-03	U
AP	07	543395006	3/24/2021	Sb-124	-7.46E-04	8.26E-04	2.36E-03	U
AP	07	543395006	3/24/2021	Sb-125	-1.07E-04	2.33E-04	7.04E-04	U
AP	07	543395006	3/24/2021	Se-75	-7.65E-05	1.38E-04	4.43E-04	U
AP	07	543395006	3/24/2021	Th-228	6.26E-04	2.04E-04	3.55E-04	
AP	07	543395006	3/24/2021	Zn-65	3.23E-04	3.16E-04	1.11E-03	U
AP	07	543395006	3/24/2021	Zr-95	1.22E-03	5.48E-04	1.52E-03	U
AP	07	540404006	4/7/2021	BETA	2.04E-02	9.75E-04	8.17E-04	
AP	07	541857006	4/21/2021	BETA	1.17E-02	7.51E-04	8.35E-04	
AP	07	544029006	5/5/2021	BETA	2.91E-02	1.21E-03	9.04E-04	
AP	07	545432006	5/19/2021	BETA	2.14E-02	1.05E-03	8.91E-04	
AP	07	546369006	6/2/2021	BETA	2.13E-02	1.06E-03	9.48E-04	
AP	07	547926006	6/16/2021	BETA	2.59E-02	1.20E-03	1.04E-03	
AP	07	548743006	6/29/2021	BETA	2.47E-02	1.24E-03	1.07E-03	
AP	07	552139006	6/29/2021	Ac-228	0.00E+00	7.32E-04	1.38E-03	U
AP	07	552139006	6/29/2021	Ag-108m	1.09E-04	6.18E-05	2.09E-04	U
AP	07	552139006	6/29/2021	Ag-110m	-3.01E-04	1.33E-04	2.87E-04	U
AP	07	552139006	6/29/2021	Ba-140	1.41E-02	3.25E-02	1.11E-01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	07	552139006	6/29/2021	Be-7	1.30E-01	8.59E-03	4.99E-03	
AP	07	552139006	6/29/2021	Ce-141	-6.21E-04	5.90E-04	1.69E-03	U
AP	07	552139006	6/29/2021	Ce-144	-1.17E-05	4.41E-04	1.39E-03	U
AP	07	552139006	6/29/2021	Co-57	-2.20E-05	5.55E-05	1.72E-04	U
AP	07	552139006	6/29/2021	Co-58	1.21E-04	1.79E-04	5.95E-04	U
AP	07	552139006	6/29/2021	Co-60	1.29E-05	9.16E-05	3.00E-04	U
AP	07	552139006	6/29/2021	Cr-51	4.80E-03	5.34E-03	1.77E-02	U
AP	07	552139006	6/29/2021	Cs-134	-4.70E-05	9.74E-05	2.69E-04	U
AP	07	552139006	6/29/2021	Cs-137	-9.56E-05	7.69E-05	2.19E-04	U
AP	07	552139006	6/29/2021	Fe-59	-9.74E-05	5.12E-04	1.66E-03	U
AP	07	552139006	6/29/2021	I-131	0.00E+00	1.49E-01	0.00E+00	UI
AP	07	552139006	6/29/2021	K-40	2.22E-03	1.91E-03	2.96E-03	U
AP	07	552139006	6/29/2021	La-140	-3.27E-03	1.48E-02	4.82E-02	U
AP	07	552139006	6/29/2021	Mn-54	1.07E-04	1.03E-04	3.42E-04	U
AP	07	552139006	6/29/2021	Nb-95	-4.12E-04	2.45E-04	5.73E-04	U
AP	07	552139006	6/29/2021	Ru-103	3.17E-04	2.92E-04	1.01E-03	U
AP	07	552139006	6/29/2021	Ru-106	-8.78E-05	7.41E-04	2.43E-03	U
AP	07	552139006	6/29/2021	Sb-124	-4.81E-05	4.83E-04	1.58E-03	U
AP	07	552139006	6/29/2021	Sb-125	-2.59E-04	1.82E-04	4.86E-04	U
AP	07	552139006	6/29/2021	Se-75	-3.15E-05	1.36E-04	4.23E-04	U
AP	07	552139006	6/29/2021	Th-228	6.99E-04	2.34E-04	3.28E-04	
AP	07	552139006	6/29/2021	Zn-65	-5.39E-04	3.08E-04	6.22E-04	U
AP	07	552139006	6/29/2021	Zr-95	-1.54E-04	3.15E-04	9.71E-04	U
AP	07	549925006	7/13/2021	BETA	1.84E-02	1.03E-03	1.00E-03	
AP	07	551091006	7/28/2021	BETA	2.82E-02	1.27E-03	9.40E-04	
AP	07	552841006	8/11/2021	BETA	3.67E-02	1.52E-03	1.05E-03	
AP	07	554155006	8/25/2021	BETA	2.93E-02	1.36E-03	1.08E-03	
AP	07	555720006	9/9/2021	BETA	4.00E-02	1.40E-03	9.79E-04	
AP	07	556805006	9/22/2021	BETA	3.96E-02	1.48E-03	1.07E-03	
AP	07	560825006	9/22/2021	Ac-228	-2.23E-04	5.29E-04	1.63E-03	U
AP	07	560825006	9/22/2021	Ag-108m	4.52E-05	7.71E-05	2.66E-04	U
AP	07	560825006	9/22/2021	Ag-110m	-5.07E-05	1.44E-04	4.36E-04	U
AP	07	560825006	9/22/2021	Ba-140	-1.31E-02	3.92E-02	1.20E-01	U
AP	07	560825006	9/22/2021	Be-7	1.50E-01	1.12E-02	5.79E-03	
AP	07	560825006	9/22/2021	Ce-141	-1.25E-03	7.87E-04	2.01E-03	U
AP	07	560825006	9/22/2021	Ce-144	4.81E-04	5.06E-04	1.68E-03	U
AP	07	560825006	9/22/2021	Co-57	2.86E-05	5.82E-05	1.94E-04	U
AP	07	560825006	9/22/2021	Co-58	2.87E-04	2.12E-04	7.43E-04	U
AP	07	560825006	9/22/2021	Co-60	3.31E-05	8.98E-05	3.14E-04	U
AP	07	560825006	9/22/2021	Cr-51	3.48E-03	6.21E-03	2.16E-02	U
AP	07	560825006	9/22/2021	Cs-134	-1.61E-05	1.15E-04	3.77E-04	U
AP	07	560825006	9/22/2021	Cs-137	1.14E-04	9.11E-05	3.19E-04	U
AP	07	560825006	9/22/2021	Fe-59	5.74E-05	5.47E-04	1.87E-03	U
AP	07	560825006	9/22/2021	I-131	0.00E+00	1.38E-01	0.00E+00	UI
AP	07	560825006	9/22/2021	K-40	-1.12E-03	1.68E-03	5.89E-03	U
AP	07	560825006	9/22/2021	La-140	-9.20E-03	1.42E-02	4.13E-02	U
AP	07	560825006	9/22/2021	Mn-54	-3.81E-05	1.15E-04	3.53E-04	U
AP	07	560825006	9/22/2021	Nb-95	-3.89E-05	2.64E-04	8.39E-04	U
AP	07	560825006	9/22/2021	Ru-103	1.81E-05	3.58E-04	1.20E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	07	560825006	9/22/2021	Ru-106	-6.59E-04	8.56E-04	2.53E-03	U
AP	07	560825006	9/22/2021	Sb-124	1.26E-04	5.38E-04	1.83E-03	U
AP	07	560825006	9/22/2021	Sb-125	-2.56E-05	2.05E-04	6.83E-04	U
AP	07	560825006	9/22/2021	Se-75	-1.37E-04	1.83E-04	5.35E-04	U
AP	07	560825006	9/22/2021	Th-228	0.00E+00	3.22E-04	6.30E-04	U
AP	07	560825006	9/22/2021	Zn-65	-2.88E-04	3.55E-04	9.03E-04	U
AP	07	560825006	9/22/2021	Zr-95	6.63E-04	4.77E-04	1.64E-03	U
AP	07	558373006	10/6/2021	BETA	3.02E-02	1.23E-03	8.80E-04	
AP	07	560124006	10/21/2021	BETA	3.72E-02	1.32E-03	8.20E-04	
AP	07	561299006	11/2/2021	BETA	3.35E-02	1.41E-03	1.02E-03	
AP	07	562487006	11/17/2021	BETA	3.57E-02	1.27E-03	8.09E-04	
AP	07	563880006	12/1/2021	BETA	3.08E-02	1.22E-03	8.40E-04	
AP	07	565211006	12/15/2021	BETA	4.02E-02	1.54E-03	1.11E-03	
AP	07	566442006	12/29/2021	BETA	4.17E-02	1.45E-03	9.44E-04	
AP	07	568408006	12/29/2021	Ac-228	8.38E-05	5.08E-04	1.42E-03	U
AP	07	568408006	12/29/2021	Ag-108m	-1.22E-04	6.62E-05	1.65E-04	U
AP	07	568408006	12/29/2021	Ag-110m	2.53E-05	1.39E-04	4.67E-04	U
AP	07	568408006	12/29/2021	Ba-140	3.94E-03	1.47E-02	4.93E-02	U
AP	07	568408006	12/29/2021	Be-7	1.03E-01	7.09E-03	4.16E-03	
AP	07	568408006	12/29/2021	Ce-141	-5.78E-05	3.79E-04	1.22E-03	U
AP	07	568408006	12/29/2021	Ce-144	6.15E-04	3.87E-04	1.29E-03	U
AP	07	568408006	12/29/2021	Co-57	3.53E-05	4.71E-05	1.59E-04	U
AP	07	568408006	12/29/2021	Co-58	1.94E-04	1.50E-04	5.46E-04	U
AP	07	568408006	12/29/2021	Co-60	4.28E-05	9.30E-05	3.20E-04	U
AP	07	568408006	12/29/2021	Cr-51	-3.75E-04	3.17E-03	1.07E-02	U
AP	07	568408006	12/29/2021	Cs-134	-3.27E-05	8.65E-05	2.81E-04	U
AP	07	568408006	12/29/2021	Cs-137	-1.36E-04	8.81E-05	1.86E-04	U
AP	07	568408006	12/29/2021	Fe-59	-4.91E-04	4.76E-04	1.29E-03	U
AP	07	568408006	12/29/2021	I-131	1.19E-01	5.96E-02	2.01E-01	U
AP	07	568408006	12/29/2021	K-40	7.68E-04	1.48E-03	5.40E-03	U
AP	07	568408006	12/29/2021	La-140	-1.06E-03	6.72E-03	2.21E-02	U
AP	07	568408006	12/29/2021	Mn-54	4.47E-05	6.65E-05	2.40E-04	U
AP	07	568408006	12/29/2021	Nb-95	-1.62E-04	1.68E-04	5.05E-04	U
AP	07	568408006	12/29/2021	Ru-103	3.98E-05	2.43E-04	8.09E-04	U
AP	07	568408006	12/29/2021	Ru-106	8.99E-04	8.58E-04	2.92E-03	U
AP	07	568408006	12/29/2021	Sb-124	3.32E-04	3.83E-04	1.46E-03	U
AP	07	568408006	12/29/2021	Sb-125	-2.23E-04	1.69E-04	4.63E-04	U
AP	07	568408006	12/29/2021	Se-75	-9.98E-05	1.15E-04	3.69E-04	U
AP	07	568408006	12/29/2021	Th-228	2.58E-04	2.18E-04	4.92E-04	U
AP	07	568408006	12/29/2021	Zn-65	-3.13E-04	2.08E-04	4.84E-04	U
AP	07	568408006	12/29/2021	Zr-95	-1.91E-04	3.14E-04	9.13E-04	U
AP	08	532372007	1/13/2021	BETA	2.38E-02	1.14E-03	9.82E-04	
AP	08	533687007	1/27/2021	BETA	2.92E-02	1.27E-03	1.00E-03	
AP	08	535173007	2/10/2021	BETA	1.57E-02	9.44E-04	9.91E-04	
AP	08	536335007	2/25/2021	BETA	3.10E-02	1.29E-03	9.53E-04	
AP	08	537636007	3/10/2021	BETA	2.17E-02	8.50E-04	5.97E-04	
AP	08	539006007	3/24/2021	BETA	2.96E-02	1.14E-03	7.94E-04	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	08	543395007	3/24/2021	Ac-228	2.97E-04	3.97E-04	1.36E-03	U
AP	08	543395007	3/24/2021	Ag-108m	-3.04E-05	7.03E-05	2.30E-04	U
AP	08	543395007	3/24/2021	Ag-110m	3.38E-04	1.92E-04	6.71E-04	U
AP	08	543395007	3/24/2021	Ba-140	-6.30E-03	2.81E-02	9.19E-02	U
AP	08	543395007	3/24/2021	Be-7	1.23E-01	8.82E-03	5.22E-03	
AP	08	543395007	3/24/2021	Ce-141	-2.56E-04	6.13E-04	1.94E-03	U
AP	08	543395007	3/24/2021	Ce-144	7.44E-04	5.28E-04	1.74E-03	U
AP	08	543395007	3/24/2021	Co-57	9.71E-05	6.59E-05	2.19E-04	U
AP	08	543395007	3/24/2021	Co-58	-2.47E-04	2.24E-04	6.15E-04	U
AP	08	543395007	3/24/2021	Co-60	2.77E-04	2.03E-04	6.47E-04	U
AP	08	543395007	3/24/2021	Cr-51	2.27E-03	6.30E-03	1.85E-02	U
AP	08	543395007	3/24/2021	Cs-134	1.18E-04	1.32E-04	4.53E-04	U
AP	08	543395007	3/24/2021	Cs-137	-4.19E-05	8.76E-05	2.73E-04	U
AP	08	543395007	3/24/2021	Fe-59	7.54E-04	6.10E-04	2.21E-03	U
AP	08	543395007	3/24/2021	I-131	0.00E+00	1.29E-01	0.00E+00	UI
AP	08	543395007	3/24/2021	K-40	-3.24E-03	1.83E-03	5.61E-03	U
AP	08	543395007	3/24/2021	La-140	-3.28E-03	1.39E-02	4.45E-02	U
AP	08	543395007	3/24/2021	Mn-54	7.13E-05	9.26E-05	3.24E-04	U
AP	08	543395007	3/24/2021	Nb-95	3.70E-05	2.29E-04	7.58E-04	U
AP	08	543395007	3/24/2021	Ru-103	3.27E-04	3.25E-04	1.15E-03	U
AP	08	543395007	3/24/2021	Ru-106	-6.20E-04	8.88E-04	2.71E-03	U
AP	08	543395007	3/24/2021	Sb-124	-8.39E-04	7.41E-04	1.91E-03	U
AP	08	543395007	3/24/2021	Sb-125	-2.51E-05	2.28E-04	7.65E-04	U
AP	08	543395007	3/24/2021	Se-75	2.88E-05	1.61E-04	5.11E-04	U
AP	08	543395007	3/24/2021	Th-228	2.11E-04	3.32E-04	4.72E-04	U
AP	08	543395007	3/24/2021	Zn-65	-1.37E-04	2.55E-04	7.34E-04	U
AP	08	543395007	3/24/2021	Zr-95	2.69E-04	3.56E-04	1.24E-03	U
AP	08	540404007	4/7/2021	BETA	1.59E-02	8.37E-04	7.69E-04	
AP	08	541857007	4/21/2021	BETA	1.13E-02	7.44E-04	8.55E-04	
AP	08	544029007	5/5/2021	BETA	2.46E-02	1.07E-03	8.41E-04	
AP	08	545432007	5/19/2021	BETA	1.82E-02	9.26E-04	8.24E-04	
AP	08	546369007	6/2/2021	BETA	1.94E-02	9.52E-04	8.45E-04	
AP	08	547926007	6/16/2021	BETA	2.50E-02	1.12E-03	9.08E-04	
AP	08	548743007	6/29/2021	BETA	3.34E-03	5.20E-04	9.97E-04	M
AP	08	552139007	6/29/2021	Ac-228	-1.31E-05	4.22E-04	1.39E-03	U
AP	08	552139007	6/29/2021	Ag-108m	2.86E-05	6.80E-05	2.30E-04	U
AP	08	552139007	6/29/2021	Ag-110m	-2.50E-04	1.57E-04	4.25E-04	U
AP	08	552139007	6/29/2021	Ba-140	-4.07E-02	3.82E-02	1.14E-01	U
AP	08	552139007	6/29/2021	Be-7	9.61E-02	7.45E-03	6.29E-03	
AP	08	552139007	6/29/2021	Ce-141	2.05E-05	1.09E-03	2.16E-03	U
AP	08	552139007	6/29/2021	Ce-144	3.63E-04	4.91E-04	1.68E-03	U
AP	08	552139007	6/29/2021	Co-57	-1.05E-04	6.76E-05	2.03E-04	U
AP	08	552139007	6/29/2021	Co-58	-8.82E-06	1.98E-04	6.56E-04	U
AP	08	552139007	6/29/2021	Co-60	-5.54E-05	7.79E-05	2.37E-04	U
AP	08	552139007	6/29/2021	Cr-51	8.33E-03	7.04E-03	2.04E-02	U
AP	08	552139007	6/29/2021	Cs-134	-1.50E-04	9.90E-05	2.77E-04	U
AP	08	552139007	6/29/2021	Cs-137	5.48E-05	8.05E-05	2.66E-04	U
AP	08	552139007	6/29/2021	Fe-59	-4.16E-04	7.96E-04	2.31E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	08	552139007	6/29/2021	I-131	0.00E+00	1.90E-01	0.00E+00	UI
AP	08	552139007	6/29/2021	K-40	1.96E-03	1.54E-03	2.63E-03	U
AP	08	552139007	6/29/2021	La-140	-4.59E-04	1.18E-02	3.84E-02	U
AP	08	552139007	6/29/2021	Mn-54	-5.16E-05	9.21E-05	2.93E-04	U
AP	08	552139007	6/29/2021	Nb-95	2.53E-04	2.45E-04	7.47E-04	U
AP	08	552139007	6/29/2021	Ru-103	-3.33E-04	3.41E-04	1.03E-03	U
AP	08	552139007	6/29/2021	Ru-106	7.16E-04	8.69E-04	2.87E-03	U
AP	08	552139007	6/29/2021	Sb-124	2.68E-05	4.44E-04	1.45E-03	U
AP	08	552139007	6/29/2021	Sb-125	-1.41E-04	2.15E-04	6.86E-04	U
AP	08	552139007	6/29/2021	Se-75	-4.41E-05	1.60E-04	5.08E-04	U
AP	08	552139007	6/29/2021	Th-228	0.00E+00	2.58E-04	4.12E-04	U
AP	08	552139007	6/29/2021	Zn-65	1.83E-04	2.24E-04	7.56E-04	U
AP	08	552139007	6/29/2021	Zr-95	1.02E-04	3.72E-04	1.26E-03	U
AP	08	549925007	7/13/2021	BETA	1.67E-02	9.32E-04	9.17E-04	
AP	08	551091007	7/28/2021	BETA	2.41E-02	1.07E-03	8.14E-04	
AP	08	552841007	8/11/2021	BETA	3.03E-02	1.25E-03	8.89E-04	
AP	08	554155007	8/25/2021	BETA	2.60E-02	1.20E-03	1.11E-03	
AP	08	555720007	9/9/2021	BETA	4.03E-02	1.44E-03	9.11E-04	
AP	08	556805007	9/22/2021	BETA	3.52E-02	1.45E-03	1.02E-03	
AP	08	560825007	9/22/2021	Ac-228	3.81E-04	4.61E-04	1.48E-03	U
AP	08	560825007	9/22/2021	Ag-108m	1.79E-05	5.28E-05	1.81E-04	U
AP	08	560825007	9/22/2021	Ag-110m	-6.43E-05	1.59E-04	4.86E-04	U
AP	08	560825007	9/22/2021	Ba-140	-1.40E-02	2.88E-02	9.13E-02	U
AP	08	560825007	9/22/2021	Be-7	1.13E-01	8.42E-03	5.74E-03	
AP	08	560825007	9/22/2021	Ce-141	-5.36E-04	5.40E-04	1.44E-03	U
AP	08	560825007	9/22/2021	Ce-144	4.32E-04	3.93E-04	1.24E-03	U
AP	08	560825007	9/22/2021	Co-57	-5.55E-05	5.10E-05	1.49E-04	U
AP	08	560825007	9/22/2021	Co-58	3.08E-04	1.73E-04	6.16E-04	U
AP	08	560825007	9/22/2021	Co-60	-2.98E-05	9.44E-05	3.02E-04	U
AP	08	560825007	9/22/2021	Cr-51	4.58E-04	4.39E-03	1.51E-02	U
AP	08	560825007	9/22/2021	Cs-134	1.45E-04	1.08E-04	3.73E-04	U
AP	08	560825007	9/22/2021	Cs-137	6.75E-06	9.02E-05	2.66E-04	U
AP	08	560825007	9/22/2021	Fe-59	-6.72E-04	5.44E-04	1.46E-03	U
AP	08	560825007	9/22/2021	I-131	0.00E+00	1.02E-01	0.00E+00	UI
AP	08	560825007	9/22/2021	K-40	1.41E-03	1.47E-03	2.01E-03	U
AP	08	560825007	9/22/2021	La-140	9.28E-03	1.14E-02	4.13E-02	U
AP	08	560825007	9/22/2021	Mn-54	3.06E-05	1.06E-04	3.15E-04	U
AP	08	560825007	9/22/2021	Nb-95	4.68E-05	1.91E-04	6.32E-04	U
AP	08	560825007	9/22/2021	Ru-103	-4.15E-04	2.84E-04	7.65E-04	U
AP	08	560825007	9/22/2021	Ru-106	3.33E-04	8.48E-04	2.86E-03	U
AP	08	560825007	9/22/2021	Sb-124	-3.60E-04	5.00E-04	1.39E-03	U
AP	08	560825007	9/22/2021	Sb-125	1.06E-05	1.76E-04	5.94E-04	U
AP	08	560825007	9/22/2021	Se-75	5.32E-05	1.25E-04	4.00E-04	U
AP	08	560825007	9/22/2021	Th-228	4.95E-04	3.23E-04	5.48E-04	U
AP	08	560825007	9/22/2021	Zn-65	1.53E-05	2.61E-04	7.87E-04	U
AP	08	560825007	9/22/2021	Zr-95	-6.36E-04	3.76E-04	8.83E-04	U
AP	08	558373007	10/6/2021	BETA	2.26E-02	1.12E-03	9.81E-04	
AP	08	560124007	10/21/2021	BETA	3.16E-02	1.30E-03	9.63E-04	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	08	561299007	11/2/2021	BETA	2.82E-02	1.40E-03	1.22E-03	
AP	08	562487007	11/17/2021	BETA	3.23E-02	1.35E-03	1.08E-03	
AP	08	563880007	12/1/2021	BETA	2.64E-02	1.30E-03	1.28E-03	
AP	08	565211007	12/15/2021	BETA	2.74E-02	1.29E-03	1.08E-03	
AP	08	566442007	12/29/2021	BETA	3.53E-02	1.50E-03	1.13E-03	
AP	08	568408007	12/29/2021	Ac-228	3.29E-04	6.64E-04	1.86E-03	U
AP	08	568408007	12/29/2021	Ag-108m	-1.18E-05	7.63E-05	2.41E-04	U
AP	08	568408007	12/29/2021	Ag-110m	-7.25E-05	1.91E-04	5.15E-04	U
AP	08	568408007	12/29/2021	Ba-140	1.33E-02	2.24E-02	7.84E-02	U
AP	08	568408007	12/29/2021	Be-7	9.17E-02	7.87E-03	6.50E-03	
AP	08	568408007	12/29/2021	Ce-141	3.64E-04	5.78E-04	1.81E-03	U
AP	08	568408007	12/29/2021	Ce-144	-2.05E-04	5.23E-04	1.56E-03	U
AP	08	568408007	12/29/2021	Co-57	-2.19E-05	6.01E-05	2.01E-04	U
AP	08	568408007	12/29/2021	Co-58	-2.77E-04	1.87E-04	4.67E-04	U
AP	08	568408007	12/29/2021	Co-60	-6.40E-05	1.16E-04	3.59E-04	U
AP	08	568408007	12/29/2021	Cr-51	3.15E-04	5.35E-03	1.56E-02	U
AP	08	568408007	12/29/2021	Cs-134	1.33E-04	1.20E-04	4.23E-04	U
AP	08	568408007	12/29/2021	Cs-137	2.95E-05	1.08E-04	3.09E-04	U
AP	08	568408007	12/29/2021	Fe-59	-2.10E-04	6.46E-04	1.99E-03	U
AP	08	568408007	12/29/2021	I-131	-2.19E-04	6.44E-02	2.08E-01	U
AP	08	568408007	12/29/2021	K-40	-1.77E-03	1.60E-03	4.92E-03	U
AP	08	568408007	12/29/2021	La-140	-2.13E-03	9.74E-03	3.13E-02	U
AP	08	568408007	12/29/2021	Mn-54	-8.87E-05	1.14E-04	3.39E-04	U
AP	08	568408007	12/29/2021	Nb-95	-8.30E-05	2.72E-04	8.77E-04	U
AP	08	568408007	12/29/2021	Ru-103	-8.62E-04	4.41E-04	1.02E-03	U
AP	08	568408007	12/29/2021	Ru-106	5.29E-04	9.80E-04	3.40E-03	U
AP	08	568408007	12/29/2021	Sb-124	1.82E-04	7.05E-04	2.12E-03	U
AP	08	568408007	12/29/2021	Sb-125	-3.96E-04	2.61E-04	6.74E-04	U
AP	08	568408007	12/29/2021	Se-75	2.22E-04	1.76E-04	5.90E-04	U
AP	08	568408007	12/29/2021	Th-228	4.02E-04	3.02E-04	7.19E-04	U
AP	08	568408007	12/29/2021	Zn-65	1.33E-04	2.49E-04	8.50E-04	U
AP	08	568408007	12/29/2021	Zr-95	1.30E-04	3.64E-04	1.11E-03	U
AP	09	532372008	1/13/2021	BETA	2.31E-02	9.56E-04	7.09E-04	
AP	09	533687008	1/27/2021	BETA	2.94E-02	1.19E-03	8.49E-04	
AP	09	535173008	2/10/2021	BETA	2.17E-02	1.05E-03	9.41E-04	
AP	09	536335008	2/25/2021	BETA	3.12E-02	1.19E-03	8.22E-04	
AP	09	537636008	3/10/2021	BETA	2.63E-02	1.17E-03	9.73E-04	
AP	09	539006008	3/24/2021	BETA	4.04E-02	1.45E-03	9.23E-04	
AP	09	543395008	3/24/2021	Ac-228	6.18E-04	4.44E-04	1.58E-03	U
AP	09	543395008	3/24/2021	Ag-108m	-7.51E-05	7.02E-05	2.08E-04	U
AP	09	543395008	3/24/2021	Ag-110m	-1.64E-05	1.41E-04	4.71E-04	U
AP	09	543395008	3/24/2021	Ba-140	-2.75E-03	3.09E-02	9.11E-02	U
AP	09	543395008	3/24/2021	Be-7	1.29E-01	9.82E-03	6.34E-03	
AP	09	543395008	3/24/2021	Ce-141	-8.66E-04	6.87E-04	1.64E-03	U
AP	09	543395008	3/24/2021	Ce-144	-3.35E-04	4.53E-04	1.39E-03	U
AP	09	543395008	3/24/2021	Co-57	3.36E-05	6.23E-05	2.08E-04	U
AP	09	543395008	3/24/2021	Co-58	1.19E-04	1.72E-04	5.86E-04	U
AP	09	543395008	3/24/2021	Co-60	2.98E-04	1.41E-04	5.09E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	09	543395008	3/24/2021	Cr-51	-2.05E-03	5.46E-03	1.82E-02	U
AP	09	543395008	3/24/2021	Cs-134	-2.47E-04	1.18E-04	2.12E-04	U
AP	09	543395008	3/24/2021	Cs-137	7.20E-05	8.30E-05	2.86E-04	U
AP	09	543395008	3/24/2021	Fe-59	-3.14E-04	6.75E-04	2.10E-03	U
AP	09	543395008	3/24/2021	I-131	-4.08E-02	1.33E-01	0.00E+00	U
AP	09	543395008	3/24/2021	K-40	1.26E-03	1.63E-03	6.20E-03	U
AP	09	543395008	3/24/2021	La-140	1.61E-02	1.20E-02	4.50E-02	U
AP	09	543395008	3/24/2021	Mn-54	0.00E+00	9.93E-05	3.11E-04	U
AP	09	543395008	3/24/2021	Nb-95	3.09E-05	2.05E-04	6.63E-04	U
AP	09	543395008	3/24/2021	Ru-103	1.02E-04	2.64E-04	9.01E-04	U
AP	09	543395008	3/24/2021	Ru-106	1.89E-04	9.58E-04	3.01E-03	U
AP	09	543395008	3/24/2021	Sb-124	1.05E-05	7.48E-04	2.53E-03	U
AP	09	543395008	3/24/2021	Sb-125	-2.55E-04	2.39E-04	7.13E-04	U
AP	09	543395008	3/24/2021	Se-75	-2.89E-05	1.42E-04	4.34E-04	U
AP	09	543395008	3/24/2021	Th-228	4.55E-04	2.32E-04	5.64E-04	U
AP	09	543395008	3/24/2021	Zn-65	1.22E-04	2.59E-04	8.99E-04	U
AP	09	543395008	3/24/2021	Zr-95	3.08E-04	3.84E-04	1.31E-03	U
AP	09	540404008	4/7/2021	BETA	2.24E-02	1.13E-03	9.94E-04	
AP	09	541857008	4/21/2021	BETA	1.57E-02	1.00E-03	1.09E-03	
AP	09	544029008	5/5/2021	BETA	2.86E-02	1.30E-03	1.01E-03	
AP	09	545432008	5/19/2021	BETA	1.98E-02	1.03E-03	9.10E-04	
AP	09	546369008	6/2/2021	BETA	2.36E-02	1.18E-03	1.10E-03	
AP	09	547926008	6/16/2021	BETA	3.05E-02	1.37E-03	1.10E-03	
AP	09	548743008	6/29/2021	BETA	3.09E-02	1.34E-03	1.07E-03	
AP	09	552139008	6/29/2021	Ac-228	1.37E-03	6.00E-04	1.64E-03	U
AP	09	552139008	6/29/2021	Ag-108m	-2.56E-05	5.88E-05	1.92E-04	U
AP	09	552139008	6/29/2021	Ag-110m	2.78E-05	1.47E-04	4.82E-04	U
AP	09	552139008	6/29/2021	Ba-140	3.62E-02	3.51E-02	1.23E-01	U
AP	09	552139008	6/29/2021	Be-7	1.45E-01	1.05E-02	6.42E-03	
AP	09	552139008	6/29/2021	Ce-141	1.00E-03	7.35E-04	2.12E-03	U
AP	09	552139008	6/29/2021	Ce-144	2.46E-04	4.43E-04	1.47E-03	U
AP	09	552139008	6/29/2021	Co-57	-3.53E-05	6.08E-05	1.91E-04	U
AP	09	552139008	6/29/2021	Co-58	-2.63E-04	2.00E-04	5.29E-04	U
AP	09	552139008	6/29/2021	Co-60	-2.25E-05	1.09E-04	3.60E-04	U
AP	09	552139008	6/29/2021	Cr-51	-1.01E-02	5.96E-03	1.46E-02	U
AP	09	552139008	6/29/2021	Cs-134	-1.66E-04	1.07E-04	2.71E-04	U
AP	09	552139008	6/29/2021	Cs-137	-1.74E-05	1.07E-04	3.21E-04	U
AP	09	552139008	6/29/2021	Fe-59	-7.46E-04	7.33E-04	1.97E-03	U
AP	09	552139008	6/29/2021	I-131	0.00E+00	1.86E-01	0.00E+00	UI
AP	09	552139008	6/29/2021	K-40	2.54E-03	1.59E-03	2.87E-03	U
AP	09	552139008	6/29/2021	La-140	2.86E-02	1.72E-02	6.36E-02	U
AP	09	552139008	6/29/2021	Mn-54	1.84E-05	9.43E-05	3.12E-04	U
AP	09	552139008	6/29/2021	Nb-95	6.59E-05	1.90E-04	6.40E-04	U
AP	09	552139008	6/29/2021	Ru-103	2.31E-05	3.11E-04	1.05E-03	U
AP	09	552139008	6/29/2021	Ru-106	1.71E-04	7.69E-04	2.59E-03	U
AP	09	552139008	6/29/2021	Sb-124	-3.28E-04	4.87E-04	1.39E-03	U
AP	09	552139008	6/29/2021	Sb-125	2.49E-04	2.11E-04	7.39E-04	U
AP	09	552139008	6/29/2021	Se-75	-1.38E-04	1.56E-04	4.53E-04	U
AP	09	552139008	6/29/2021	Th-228	0.00E+00	2.47E-04	5.08E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	09	552139008	6/29/2021	Zn-65	4.57E-04	2.33E-04	8.37E-04	U
AP	09	552139008	6/29/2021	Zr-95	3.40E-04	3.60E-04	1.25E-03	U
AP	09	549925008	7/13/2021	BETA	2.44E-02	1.18E-03	1.05E-03	
AP	09	551091008	7/28/2021	BETA	3.11E-02	1.25E-03	8.60E-04	
AP	09	552841008	8/11/2021	BETA	4.01E-02	1.51E-03	9.89E-04	
AP	09	554155008	8/25/2021	BETA	3.83E-02	1.45E-03	9.89E-04	
AP	09	555720008	9/9/2021	BETA	4.84E-02	1.60E-03	9.08E-04	
AP	09	556805008	9/22/2021	BETA	4.58E-02	1.62E-03	9.82E-04	
AP	09	560825008	9/22/2021	Ac-228	-7.65E-04	1.08E-03	3.17E-03	U
AP	09	560825008	9/22/2021	Ag-108m	-2.51E-05	1.19E-04	3.95E-04	U
AP	09	560825008	9/22/2021	Ag-110m	-2.39E-06	3.41E-04	1.08E-03	U
AP	09	560825008	9/22/2021	Ba-140	8.40E-03	6.16E-02	2.06E-01	U
AP	09	560825008	9/22/2021	Be-7	1.88E-01	1.51E-02	1.10E-02	
AP	09	560825008	9/22/2021	Ce-141	-6.28E-04	1.05E-03	3.30E-03	U
AP	09	560825008	9/22/2021	Ce-144	-2.72E-04	7.56E-04	2.42E-03	U
AP	09	560825008	9/22/2021	Co-57	-3.64E-05	9.70E-05	3.12E-04	U
AP	09	560825008	9/22/2021	Co-58	-2.69E-04	4.08E-04	1.20E-03	U
AP	09	560825008	9/22/2021	Co-60	-4.99E-04	3.31E-04	7.79E-04	U
AP	09	560825008	9/22/2021	Cr-51	1.35E-02	9.11E-03	3.19E-02	U
AP	09	560825008	9/22/2021	Cs-134	3.95E-04	2.11E-04	7.42E-04	U
AP	09	560825008	9/22/2021	Cs-137	7.15E-05	2.13E-04	7.10E-04	U
AP	09	560825008	9/22/2021	Fe-59	1.84E-04	1.24E-03	4.22E-03	U
AP	09	560825008	9/22/2021	I-131	-1.94E-01	2.29E-01	0.00E+00	U
AP	09	560825008	9/22/2021	K-40	2.03E-03	3.76E-03	6.24E-03	U
AP	09	560825008	9/22/2021	La-140	9.20E-03	2.33E-02	8.01E-02	U
AP	09	560825008	9/22/2021	Mn-54	-3.10E-04	2.56E-04	6.82E-04	U
AP	09	560825008	9/22/2021	Nb-95	2.89E-04	4.81E-04	1.62E-03	U
AP	09	560825008	9/22/2021	Ru-103	-9.74E-04	6.68E-04	1.82E-03	U
AP	09	560825008	9/22/2021	Ru-106	2.99E-03	1.80E-03	6.26E-03	U
AP	09	560825008	9/22/2021	Sb-124	7.48E-04	9.70E-04	3.55E-03	U
AP	09	560825008	9/22/2021	Sb-125	3.30E-04	4.09E-04	1.43E-03	U
AP	09	560825008	9/22/2021	Se-75	-3.32E-04	2.84E-04	7.82E-04	U
AP	09	560825008	9/22/2021	Th-228	4.29E-04	4.70E-04	1.07E-03	U
AP	09	560825008	9/22/2021	Zn-65	1.03E-04	5.17E-04	1.77E-03	U
AP	09	560825008	9/22/2021	Zr-95	1.44E-04	9.63E-04	3.14E-03	U
AP	09	558373008	10/6/2021	BETA	4.53E-02	1.79E-03	1.40E-03	
AP	09	560124008	10/21/2021	BETA	4.38E-02	1.51E-03	9.32E-04	
AP	09	561299008	11/2/2021	BETA	4.15E-02	1.68E-03	1.20E-03	
AP	09	562487008	11/17/2021	BETA	2.65E-02	9.76E-04	6.49E-04	
AP	09	563880008	12/1/2021	BETA	2.61E-02	1.07E-03	7.65E-04	
AP	09	565211008	12/15/2021	BETA	2.87E-02	1.13E-03	8.18E-04	
AP	09	566442008	12/29/2021	BETA	3.42E-02	1.23E-03	8.80E-04	
AP	09	568408008	12/29/2021	Ac-228	2.20E-04	3.60E-04	1.13E-03	U
AP	09	568408008	12/29/2021	Ag-108m	9.88E-05	6.95E-05	2.39E-04	U
AP	09	568408008	12/29/2021	Ag-110m	-2.37E-05	9.33E-05	2.83E-04	U
AP	09	568408008	12/29/2021	Ba-140	7.81E-03	1.62E-02	5.04E-02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	09	568408008	12/29/2021	Be-7	1.12E-01	7.73E-03	5.37E-03	
AP	09	568408008	12/29/2021	Ce-141	-1.96E-04	3.95E-04	1.22E-03	U
AP	09	568408008	12/29/2021	Ce-144	7.05E-05	3.27E-04	1.06E-03	U
AP	09	568408008	12/29/2021	Co-57	-6.83E-07	4.22E-05	1.36E-04	U
AP	09	568408008	12/29/2021	Co-58	1.13E-04	1.37E-04	4.75E-04	U
AP	09	568408008	12/29/2021	Co-60	-6.90E-05	6.80E-05	1.72E-04	U
AP	09	568408008	12/29/2021	Cr-51	2.01E-03	3.21E-03	1.12E-02	U
AP	09	568408008	12/29/2021	Cs-134	2.99E-05	7.24E-05	2.44E-04	U
AP	09	568408008	12/29/2021	Cs-137	8.93E-05	8.06E-05	2.80E-04	U
AP	09	568408008	12/29/2021	Fe-59	4.76E-04	4.79E-04	1.63E-03	U
AP	09	568408008	12/29/2021	I-131	-2.16E-02	5.00E-02	1.63E-01	U
AP	09	568408008	12/29/2021	K-40	2.32E-04	1.33E-03	4.66E-03	U
AP	09	568408008	12/29/2021	La-140	6.95E-03	5.14E-03	2.04E-02	U
AP	09	568408008	12/29/2021	Mn-54	8.24E-05	8.10E-05	2.84E-04	U
AP	09	568408008	12/29/2021	Nb-95	-2.96E-04	1.64E-04	3.43E-04	U
AP	09	568408008	12/29/2021	Ru-103	2.20E-06	2.36E-04	7.83E-04	U
AP	09	568408008	12/29/2021	Ru-106	-6.76E-04	7.47E-04	2.17E-03	U
AP	09	568408008	12/29/2021	Sb-124	-3.43E-04	4.55E-04	1.24E-03	U
AP	09	568408008	12/29/2021	Sb-125	2.36E-04	1.94E-04	6.77E-04	U
AP	09	568408008	12/29/2021	Se-75	3.30E-04	2.16E-04	3.95E-04	U
AP	09	568408008	12/29/2021	Th-228	8.86E-06	2.61E-04	4.02E-04	U
AP	09	568408008	12/29/2021	Zn-65	9.48E-05	1.81E-04	6.43E-04	U
AP	09	568408008	12/29/2021	Zr-95	-5.41E-04	3.67E-04	9.33E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	01	532372009	1/13/2021	I-131	-1.60E-03	2.38E-03	6.93E-03	U
CF	01	533687009	1/27/2021	I-131	3.86E-04	2.54E-03	8.70E-03	U
CF	01	535173009	2/10/2021	I-131	-5.12E-04	1.72E-03	5.68E-03	U
CF	01	536335009	2/25/2021	I-131	-2.66E-03	2.20E-03	6.16E-03	U
CF	01	537636009	3/10/2021	I-131	-1.49E-04	2.21E-03	7.47E-03	U
CF	01	539006009	3/24/2021	I-131	2.86E-04	1.23E-03	4.07E-03	U
CF	01	540404009	4/7/2021	I-131	-1.98E-03	2.80E-03	8.85E-03	U
CF	01	541857009	4/21/2021	I-131	1.96E-03	4.30E-03	1.47E-02	U
CF	01	544029009	5/5/2021	I-131	3.94E-04	3.30E-03	1.13E-02	U
CF	01	545432009	5/19/2021	I-131	9.30E-04	3.33E-03	1.17E-02	U
CF	01	546369009	6/2/2021	I-131	-2.65E-04	3.59E-03	1.18E-02	U
CF	01	547926009	6/16/2021	I-131	2.80E-04	2.56E-03	8.43E-03	U
CF	01	548743009	6/29/2021	I-131	1.90E-03	2.43E-03	8.77E-03	U
CF	01	549925009	7/13/2021	I-131	-5.59E-03	3.09E-03	6.88E-03	U
CF	01	551091009	7/28/2021	I-131	5.64E-03	2.88E-03	9.66E-03	U
CF	01	552841009	8/11/2021	I-131	-2.26E-03	2.07E-03	5.95E-03	U
CF	01	554155009	8/25/2021	I-131	2.22E-04	2.12E-03	7.04E-03	U
CF	01	555720009	9/9/2021	I-131	2.69E-03	3.28E-03	1.14E-02	U
CF	01	556805009	9/22/2021	I-131	1.14E-03	2.10E-03	7.34E-03	U
CF	01	558373009	10/6/2021	I-131	-2.70E-03	2.33E-03	6.57E-03	U
CF	01	560124009	10/21/2021	I-131	1.02E-03	3.60E-03	1.15E-02	U
CF	01	561299009	11/2/2021	I-131	-2.49E-03	3.51E-03	1.05E-02	U
CF	01	562487009	11/17/2021	I-131	-7.27E-04	9.60E-04	2.82E-03	U
CF	01	563880009	12/1/2021	I-131	8.87E-04	1.25E-03	4.48E-03	U
CF	01	565211009	12/15/2021	I-131	7.56E-04	1.01E-03	3.65E-03	U
CF	01	566442009	12/29/2021	I-131	3.40E-03	1.54E-03	6.13E-03	U
CF	02	532372010	1/13/2021	I-131	9.75E-04	2.33E-03	7.99E-03	U
CF	02	533687010	1/27/2021	I-131	-2.55E-03	2.54E-03	7.07E-03	U
CF	02	535173010	2/10/2021	I-131	2.61E-04	3.64E-03	1.26E-02	U
CF	02	536335010	2/25/2021	I-131	5.52E-03	2.53E-03	5.73E-03	U
CF	02	537636010	3/10/2021	I-131	-3.22E-03	2.04E-03	5.29E-03	U
CF	02	539006010	3/24/2021	I-131	0.00E+00	2.64E-03	3.71E-03	U
CF	02	540404010	4/7/2021	I-131	-3.24E-03	3.67E-03	1.14E-02	U
CF	02	541857010	4/21/2021	I-131	3.03E-03	4.75E-03	1.70E-02	U
CF	02	544029010	5/5/2021	I-131	0.00E+00	3.27E-03	5.40E-03	U
CF	02	545432010	5/19/2021	I-131	-4.35E-03	3.59E-03	7.96E-03	U
CF	02	546369010	6/2/2021	I-131	4.01E-03	2.53E-03	9.95E-03	U
CF	02	547926010	6/16/2021	I-131	1.12E-03	3.08E-03	1.07E-02	U
CF	02	548743010	6/29/2021	I-131	1.39E-03	1.89E-03	6.97E-03	U
CF	02	549925010	7/13/2021	I-131	-1.18E-03	3.30E-03	1.08E-02	U
CF	02	551091010	7/28/2021	I-131	-2.28E-04	3.98E-03	1.30E-02	U
CF	02	552841010	8/11/2021	I-131	-2.70E-03	2.70E-03	7.52E-03	U
CF	02	554155010	8/25/2021	I-131	2.32E-03	2.41E-03	8.62E-03	U
CF	02	555720010	9/9/2021	I-131	3.95E-03	3.08E-03	1.06E-02	U
CF	02	556805010	9/22/2021	I-131	-8.42E-04	2.42E-03	7.63E-03	U
CF	02	558373010	10/6/2021	I-131	1.12E-03	3.53E-03	1.18E-02	U
CF	02	560124010	10/21/2021	I-131	-2.13E-03	2.19E-03	6.28E-03	U
CF	02	561299010	11/2/2021	I-131	-7.04E-04	4.24E-03	1.41E-02	U
CF	02	562487010	11/17/2021	I-131	-6.51E-04	1.39E-03	4.50E-03	U
CF	02	563880010	12/1/2021	I-131	-4.86E-04	1.53E-03	4.76E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	02	565211010	12/15/2021	I-131	-9.41E-04	1.61E-03	4.94E-03	U
CF	02	566442010	12/29/2021	I-131	-2.05E-05	1.86E-03	5.64E-03	U
CF	03	532372011	1/13/2021	I-131	4.80E-04	3.28E-03	1.11E-02	U
CF	03	533687011	1/27/2021	I-131	5.43E-05	2.06E-03	6.44E-03	U
CF	03	535173011	2/10/2021	I-131	-3.98E-03	2.91E-03	6.66E-03	U
CF	03	536335011	2/25/2021	I-131	-5.83E-03	2.91E-03	6.43E-03	U
CF	03	537636011	3/10/2021	I-131	-1.64E-03	3.15E-03	1.01E-02	U
CF	03	539006011	3/24/2021	I-131	-3.06E-03	2.15E-03	6.08E-03	U
CF	03	540404011	4/7/2021	I-131	5.57E-04	2.67E-03	9.15E-03	U
CF	03	541857011	4/21/2021	I-131	2.01E-03	3.71E-03	1.34E-02	U
CF	03	544029011	5/5/2021	I-131	9.99E-04	4.59E-03	1.57E-02	U
CF	03	545432011	5/19/2021	I-131	2.00E-03	3.12E-03	7.34E-03	U
CF	03	546369011	6/2/2021	I-131	-2.12E-03	4.23E-03	1.19E-02	U
CF	03	547926011	6/16/2021	I-131	-3.89E-03	3.73E-03	1.15E-02	U
CF	03	548743011	6/29/2021	I-131	3.00E-04	2.63E-03	9.09E-03	U
CF	03	549925011	7/13/2021	I-131	3.80E-03	3.20E-03	1.16E-02	U
CF	03	551091011	7/28/2021	I-131	-4.99E-05	3.40E-03	1.15E-02	U
CF	03	552841011	8/11/2021	I-131	2.09E-03	1.98E-03	7.05E-03	U
CF	03	554155011	8/25/2021	I-131	6.55E-04	1.83E-03	5.82E-03	U
CF	03	555720011	9/9/2021	I-131	-1.85E-03	2.76E-03	8.30E-03	U
CF	03	556805011	9/22/2021	I-131	-3.39E-03	2.49E-03	6.63E-03	U
CF	03	558373011	10/6/2021	I-131	1.96E-03	3.51E-03	9.57E-03	U
CF	03	560124011	10/21/2021	I-131	2.08E-03	2.19E-03	7.69E-03	U
CF	03	561299011	11/2/2021	I-131	-8.03E-04	2.85E-03	9.21E-03	U
CF	03	562487011	11/17/2021	I-131	-1.02E-03	2.02E-03	6.43E-03	U
CF	03	563880011	12/1/2021	I-131	-1.98E-04	1.91E-03	6.42E-03	U
CF	03	565211011	12/15/2021	I-131	1.65E-04	1.58E-03	5.13E-03	U
CF	03	566442011	12/29/2021	I-131	0.00E+00	5.67E-03	1.20E-02	U
CF	04	532372012	1/13/2021	I-131	-7.05E-04	2.00E-03	6.49E-03	U
CF	04	533687012	1/27/2021	I-131	-2.11E-03	1.79E-03	5.02E-03	U
CF	04	535173012	2/10/2021	I-131	2.33E-03	2.54E-03	8.71E-03	U
CF	04	536335012	2/25/2021	I-131	1.14E-03	1.70E-03	5.96E-03	U
CF	04	537636012	3/10/2021	I-131	3.38E-03	1.82E-03	6.51E-03	U
CF	04	539006012	3/24/2021	I-131	1.05E-03	1.56E-03	5.38E-03	U
CF	04	540404012	4/7/2021	I-131	-4.23E-04	3.27E-03	9.97E-03	U
CF	04	541857012	4/21/2021	I-131	-2.10E-03	5.83E-03	1.59E-02	U
CF	04	544029012	5/5/2021	I-131	-3.76E-03	7.18E-03	2.26E-02	U
CF	04	545432012	5/19/2021	I-131	-2.60E-03	4.15E-03	1.24E-02	U
CF	04	546369012	6/2/2021	I-131	-7.59E-04	4.61E-03	1.53E-02	U
CF	04	547926012	6/16/2021	I-131	-1.63E-04	2.19E-03	7.35E-03	U
CF	04	548743012	6/29/2021	I-131	1.16E-03	1.81E-03	6.62E-03	U
CF	04	549925012	7/13/2021	I-131	6.02E-04	4.02E-03	1.33E-02	U
CF	04	551091012	7/28/2021	I-131	8.39E-03	6.50E-03	2.32E-02	U
CF	04	552841012	8/11/2021	I-131	-9.07E-04	2.64E-03	8.33E-03	U
CF	04	554155012	8/25/2021	I-131	-6.00E-03	3.63E-03	9.33E-03	U
CF	04	555720012	9/9/2021	I-131	-2.00E-03	2.54E-03	7.71E-03	U
CF	04	556805012	9/22/2021	I-131	-1.65E-03	1.73E-03	4.87E-03	U
CF	04	558373012	10/6/2021	I-131	-3.61E-04	2.44E-03	8.16E-03	U
CF	04	560124012	10/21/2021	I-131	-1.26E-03	1.75E-03	5.57E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	04	561299012	11/2/2021	I-131	5.87E-03	2.72E-03	9.41E-03	U
CF	04	562487012	11/17/2021	I-131	-9.62E-04	1.17E-03	3.41E-03	U
CF	04	563880012	12/1/2021	I-131	5.25E-04	1.54E-03	5.22E-03	U
CF	04	565211012	12/15/2021	I-131	7.28E-04	1.48E-03	5.08E-03	U
CF	04	566442012	12/29/2021	I-131	-3.98E-03	3.25E-03	9.26E-03	U
CF	05	532372013	1/13/2021	I-131	3.76E-04	2.39E-03	7.98E-03	U
CF	05	533687013	1/27/2021	I-131	-2.29E-03	2.66E-03	8.34E-03	U
CF	05	535173013	2/10/2021	I-131	3.39E-03	2.11E-03	7.86E-03	U
CF	05	536335013	2/25/2021	I-131	3.57E-03	2.66E-03	9.60E-03	U
CF	05	537636013	3/10/2021	I-131	1.35E-03	2.55E-03	9.06E-03	U
CF	05	539006013	3/24/2021	I-131	-1.08E-04	1.30E-03	3.96E-03	U
CF	05	540404013	4/7/2021	I-131	4.02E-04	2.67E-03	9.23E-03	U
CF	05	541857013	4/21/2021	I-131	-4.91E-04	3.89E-03	1.16E-02	U
CF	05	544029013	5/5/2021	I-131	1.39E-04	4.41E-03	1.51E-02	U
CF	05	545432013	5/19/2021	I-131	3.04E-03	3.02E-03	1.10E-02	U
CF	05	546369013	6/2/2021	I-131	-1.57E-03	3.94E-03	1.27E-02	U
CF	05	547926013	6/16/2021	I-131	2.49E-03	2.01E-03	7.38E-03	U
CF	05	548743013	6/29/2021	I-131	7.13E-04	2.30E-03	8.02E-03	U
CF	05	549925013	7/13/2021	I-131	2.86E-03	2.12E-03	7.49E-03	U
CF	05	551091013	7/28/2021	I-131	3.99E-03	5.24E-03	1.73E-02	U
CF	05	552841013	8/11/2021	I-131	3.60E-03	2.64E-03	8.98E-03	U
CF	05	554155013	8/25/2021	I-131	-1.54E-03	2.22E-03	6.76E-03	U
CF	05	555720013	9/9/2021	I-131	6.55E-03	3.03E-03	1.02E-02	U
CF	05	556805013	9/22/2021	I-131	3.32E-04	2.68E-03	8.07E-03	U
CF	05	558373013	10/6/2021	I-131	-6.83E-04	2.14E-03	6.98E-03	U
CF	05	560124013	10/21/2021	I-131	-1.04E-03	2.07E-03	6.68E-03	U
CF	05	561299013	11/2/2021	I-131	2.09E-04	2.19E-03	7.46E-03	U
CF	05	562487013	11/17/2021	I-131	-7.79E-04	1.81E-03	5.86E-03	U
CF	05	563880013	12/1/2021	I-131	4.91E-03	2.13E-03	7.51E-03	U
CF	05	565211013	12/15/2021	I-131	9.08E-04	2.52E-03	8.12E-03	U
CF	05	566442013	12/29/2021	I-131	-9.83E-04	4.16E-03	1.33E-02	U
CF	07	532372014	1/13/2021	I-131	1.19E-02	3.03E-03	8.78E-03	UI M
CF	07	533687014	1/27/2021	I-131	-4.57E-03	2.31E-03	4.92E-03	U
CF	07	535173014	2/10/2021	I-131	-3.09E-05	2.50E-03	8.43E-03	U
CF	07	536335014	2/25/2021	I-131	2.69E-03	4.94E-03	1.75E-02	U
CF	07	537636014	3/10/2021	I-131	-3.76E-03	2.80E-03	7.15E-03	U
CF	07	539006014	3/24/2021	I-131	2.57E-03	1.99E-03	6.92E-03	U
CF	07	540404014	4/7/2021	I-131	-1.89E-03	2.38E-03	6.89E-03	U
CF	07	541857014	4/21/2021	I-131	5.73E-03	4.65E-03	1.65E-02	U
CF	07	544029014	5/5/2021	I-131	4.90E-03	4.05E-03	1.00E-02	U
CF	07	545432014	5/19/2021	I-131	1.12E-03	2.85E-03	1.01E-02	U
CF	07	546369014	6/2/2021	I-131	-4.48E-03	2.81E-03	5.65E-03	U
CF	07	547926014	6/16/2021	I-131	1.43E-03	4.32E-03	1.51E-02	U
CF	07	548743014	6/29/2021	I-131	3.33E-03	2.79E-03	1.02E-02	U
CF	07	549925014	7/13/2021	I-131	1.18E-03	3.25E-03	1.10E-02	U
CF	07	551091014	7/28/2021	I-131	4.07E-04	2.89E-03	9.42E-03	U
CF	07	552841014	8/11/2021	I-131	-5.73E-04	3.02E-03	9.57E-03	U
CF	07	554155014	8/25/2021	I-131	2.74E-03	3.44E-03	1.17E-02	U
CF	07	555720014	9/9/2021	I-131	8.90E-04	2.39E-03	8.32E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	07	556805014	9/22/2021	I-131	-2.04E-03	2.29E-03	7.03E-03	U
CF	07	558373014	10/6/2021	I-131	4.88E-03	3.10E-03	1.17E-02	U
CF	07	560124014	10/21/2021	I-131	-6.35E-04	2.06E-03	6.77E-03	U
CF	07	561299014	11/2/2021	I-131	1.10E-04	2.66E-03	8.97E-03	U
CF	07	562487014	11/17/2021	I-131	-1.33E-03	2.06E-03	6.51E-03	U
CF	07	563880014	12/1/2021	I-131	-2.18E-03	2.07E-03	6.30E-03	U
CF	07	565211014	12/15/2021	I-131	3.48E-04	1.32E-03	4.16E-03	U
CF	07	566442014	12/29/2021	I-131	3.92E-04	2.49E-03	8.31E-03	U
CF	08	532372015	1/13/2021	I-131	2.63E-03	2.10E-03	7.62E-03	U
CF	08	533687015	1/27/2021	I-131	2.38E-03	2.81E-03	1.00E-02	U
CF	08	535173015	2/10/2021	I-131	2.84E-03	2.65E-03	9.37E-03	U
CF	08	536335015	2/25/2021	I-131	-4.88E-03	3.40E-03	9.90E-03	U
CF	08	537636015	3/10/2021	I-131	1.33E-03	1.70E-03	5.70E-03	U
CF	08	539006015	3/24/2021	I-131	1.12E-03	1.81E-03	6.24E-03	U
CF	08	540404015	4/7/2021	I-131	1.15E-03	3.03E-03	9.11E-03	U
CF	08	541857015	4/21/2021	I-131	-5.89E-03	4.62E-03	8.59E-03	U
CF	08	544029015	5/5/2021	I-131	-3.51E-03	3.49E-03	1.02E-02	U
CF	08	545432015	5/19/2021	I-131	8.76E-03	5.43E-03	1.61E-02	U
CF	08	546369015	6/2/2021	I-131	1.55E-03	3.14E-03	1.08E-02	U
CF	08	547926015	6/16/2021	I-131	-1.36E-03	2.42E-03	7.76E-03	U
CF	08	548743015	6/29/2021	I-131	9.02E-04	2.62E-03	8.54E-03	U
CF	08	549925015	7/13/2021	I-131	-1.08E-03	2.43E-03	7.06E-03	U
CF	08	551091015	7/28/2021	I-131	-9.73E-03	4.49E-03	1.10E-02	U
CF	08	552841015	8/11/2021	I-131	1.29E-03	2.47E-03	8.64E-03	U
CF	08	554155015	8/25/2021	I-131	-2.39E-03	2.39E-03	7.17E-03	U
CF	08	555720015	9/9/2021	I-131	2.15E-03	2.56E-03	9.12E-03	U
CF	08	556805015	9/22/2021	I-131	1.23E-03	2.23E-03	7.80E-03	U
CF	08	558373015	10/6/2021	I-131	6.12E-04	2.94E-03	1.01E-02	U
CF	08	560124015	10/21/2021	I-131	-1.98E-03	3.62E-03	1.16E-02	U
CF	08	561299015	11/2/2021	I-131	-1.81E-03	3.25E-03	9.15E-03	U
CF	08	562487015	11/17/2021	I-131	1.19E-04	1.31E-03	4.49E-03	U
CF	08	563880015	12/1/2021	I-131	2.66E-03	2.08E-03	7.11E-03	U
CF	08	565211015	12/15/2021	I-131	2.25E-03	2.03E-03	7.60E-03	U
CF	08	566442015	12/29/2021	I-131	-5.70E-04	3.16E-03	1.04E-02	U
CF	09	532372016	1/13/2021	I-131	-2.38E-03	1.37E-03	3.29E-03	U
CF	09	533687016	1/27/2021	I-131	-1.57E-03	1.83E-03	5.62E-03	U
CF	09	535173016	2/10/2021	I-131	-2.41E-03	1.79E-03	4.96E-03	U
CF	09	536335016	2/25/2021	I-131	0.00E+00	3.47E-03	6.70E-03	U
CF	09	537636016	3/10/2021	I-131	-1.25E-03	1.99E-03	6.22E-03	U
CF	09	539006016	3/24/2021	I-131	1.63E-03	2.10E-03	6.88E-03	U
CF	09	540404016	4/7/2021	I-131	-3.33E-03	3.82E-03	1.06E-02	U
CF	09	541857016	4/21/2021	I-131	-3.01E-03	4.63E-03	1.41E-02	U
CF	09	544029016	5/5/2021	I-131	-2.12E-03	5.34E-03	1.67E-02	U
CF	09	545432016	5/19/2021	I-131	-1.13E-03	3.58E-03	1.15E-02	U
CF	09	546369016	6/2/2021	I-131	9.39E-03	5.36E-03	1.92E-02	U
CF	09	547926016	6/16/2021	I-131	4.39E-03	3.99E-03	1.37E-02	U
CF	09	548743016	6/29/2021	I-131	2.37E-03	2.30E-03	8.45E-03	U
CF	09	549925016	7/13/2021	I-131	4.61E-03	3.51E-03	8.87E-03	U
CF	09	551091016	7/28/2021	I-131	-2.81E-04	2.36E-03	7.87E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	09	552841016	8/11/2021	I-131	2.19E-03	2.72E-03	9.72E-03	U
CF	09	554155016	8/25/2021	I-131	-1.78E-04	2.40E-03	7.83E-03	U
CF	09	555720016	9/9/2021	I-131	9.66E-04	2.45E-03	8.57E-03	U
CF	09	556805016	9/22/2021	I-131	2.60E-03	2.20E-03	7.87E-03	U
CF	09	558373016	10/6/2021	I-131	3.19E-03	3.18E-03	1.14E-02	U
CF	09	560124016	10/21/2021	I-131	2.77E-03	2.06E-03	7.27E-03	U
CF	09	561299016	11/2/2021	I-131	1.89E-03	2.45E-03	8.78E-03	U
CF	09	562487016	11/17/2021	I-131	-1.12E-04	8.30E-04	2.63E-03	U
CF	09	563880016	12/1/2021	I-131	4.67E-04	1.37E-03	4.53E-03	U
CF	09	565211016	12/15/2021	I-131	6.96E-04	1.10E-03	3.86E-03	U
CF	09	566442016	12/29/2021	I-131	-1.15E-03	2.98E-03	8.14E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	03	545141001	5/17/2021	Ac-228	-1.38E+01	1.09E+01	3.15E+01	U
FH	03	545141001	5/17/2021	Ag-108m	3.81E-01	1.49E+00	5.11E+00	U
FH	03	545141001	5/17/2021	Ag-110m	1.57E+00	2.99E+00	1.00E+01	U
FH	03	545141001	5/17/2021	Ba-140	3.72E+00	7.71E+00	2.66E+01	U
FH	03	545141001	5/17/2021	Be-7	-1.88E+00	1.72E+01	5.74E+01	U
FH	03	545141001	5/17/2021	Bi-214	4.28E+00	8.79E+00	1.81E+01	U
FH	03	545141001	5/17/2021	Ce-141	-1.59E+00	3.34E+00	1.05E+01	U
FH	03	545141001	5/17/2021	Ce-144	0.00E+00	2.04E+01	3.54E+01	U
FH	03	545141001	5/17/2021	Co-57	4.47E-01	1.48E+00	4.88E+00	U
FH	03	545141001	5/17/2021	Co-58	3.62E-01	2.01E+00	6.64E+00	U
FH	03	545141001	5/17/2021	Co-60	7.75E-01	1.91E+00	6.72E+00	U
FH	03	545141001	5/17/2021	Cr-51	2.55E+01	1.92E+01	6.16E+01	U
FH	03	545141001	5/17/2021	Cs-134	-2.97E+00	2.38E+00	6.54E+00	U
FH	03	545141001	5/17/2021	Cs-137	2.78E+00	2.09E+00	7.24E+00	U
FH	03	545141001	5/17/2021	Fe-59	-5.93E-01	5.98E+00	1.67E+01	U
FH	03	545141001	5/17/2021	I-131	-2.03E+00	2.83E+00	9.14E+00	U
FH	03	545141001	5/17/2021	K-40	2.92E+03	1.86E+02	6.58E+01	
FH	03	545141001	5/17/2021	La-140	-6.27E+00	3.34E+00	6.67E+00	U
FH	03	545141001	5/17/2021	Mn-54	-3.62E+00	2.32E+00	5.99E+00	U
FH	03	545141001	5/17/2021	Nb-95	-6.49E-01	2.25E+00	7.17E+00	U
FH	03	545141001	5/17/2021	Pb-212	9.02E+00	6.80E+00	1.30E+01	U
FH	03	545141001	5/17/2021	Pb-214	4.79E+00	4.62E+00	1.57E+01	U
FH	03	545141001	5/17/2021	Ra-226	4.28E+00	8.79E+00	1.81E+01	U
FH	03	545141001	5/17/2021	Ru-103	-5.27E-01	2.37E+00	7.08E+00	U
FH	03	545141001	5/17/2021	Ru-106	-6.19E+00	1.67E+01	5.37E+01	U
FH	03	545141001	5/17/2021	Sb-124	1.37E+00	3.42E+00	1.21E+01	U
FH	03	545141001	5/17/2021	Sb-125	1.17E+01	1.34E+01	1.68E+01	U
FH	03	545141001	5/17/2021	Se-75	-2.15E+00	2.68E+00	7.88E+00	U
FH	03	545141001	5/17/2021	Th-228	9.02E+00	6.80E+00	1.30E+01	U
FH	03	545141001	5/17/2021	Th-230	4.28E+00	8.79E+00	1.81E+01	U
FH	03	545141001	5/17/2021	Tl-208	-2.08E+00	2.36E+00	7.08E+00	U
FH	03	545141001	5/17/2021	Zn-65	-2.65E+00	5.08E+00	1.52E+01	U
FH	03	545141001	5/17/2021	Zr-95	-1.78E+00	2.91E+00	8.78E+00	U
FH	03	554690001	8/10/2021	Ac-228	1.56E+01	1.54E+01	4.26E+01	U
FH	03	554690001	8/10/2021	Ag-108m	2.49E+00	2.00E+00	6.55E+00	U
FH	03	554690001	8/10/2021	Ag-110m	9.75E+00	6.25E+00	1.38E+01	U
FH	03	554690001	8/10/2021	Ba-140	4.32E+01	3.07E+01	1.06E+02	U
FH	03	554690001	8/10/2021	Be-7	-1.08E+01	2.27E+01	7.46E+01	U
FH	03	554690001	8/10/2021	Bi-214	0.00E+00	7.60E+00	1.67E+01	U
FH	03	554690001	8/10/2021	Ce-141	0.00E+00	8.85E+00	1.42E+01	U
FH	03	554690001	8/10/2021	Ce-144	1.58E+01	1.34E+01	4.51E+01	U
FH	03	554690001	8/10/2021	Co-57	1.39E+00	1.58E+00	5.40E+00	U
FH	03	554690001	8/10/2021	Co-58	1.33E-01	2.71E+00	8.93E+00	U
FH	03	554690001	8/10/2021	Co-60	2.10E+00	3.20E+00	1.11E+01	U
FH	03	554690001	8/10/2021	Cr-51	-1.95E+01	3.27E+01	1.01E+02	U
FH	03	554690001	8/10/2021	Cs-134	-3.27E+00	2.99E+00	8.75E+00	U
FH	03	554690001	8/10/2021	Cs-137	6.38E+00	3.13E+00	1.03E+01	U
FH	03	554690001	8/10/2021	Fe-59	1.02E+00	6.56E+00	2.13E+01	U
FH	03	554690001	8/10/2021	I-131	6.69E+00	1.56E+01	5.11E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	03	554690001	8/10/2021	K-40	3.96E+03	2.45E+02	6.79E+01	
FH	03	554690001	8/10/2021	La-140	1.45E+00	8.14E+00	2.75E+01	U
FH	03	554690001	8/10/2021	Mn-54	-2.80E+00	2.45E+00	6.99E+00	U
FH	03	554690001	8/10/2021	Nb-95	4.99E+00	5.56E+00	8.57E+00	U
FH	03	554690001	8/10/2021	Pb-212	9.96E+00	5.61E+00	1.39E+01	U
FH	03	554690001	8/10/2021	Pb-214	4.46E+00	5.56E+00	1.82E+01	U
FH	03	554690001	8/10/2021	Ra-226	0.00E+00	7.60E+00	1.67E+01	U
FH	03	554690001	8/10/2021	Ru-103	3.92E-01	3.14E+00	1.07E+01	U
FH	03	554690001	8/10/2021	Ru-106	-1.73E+01	2.17E+01	6.76E+01	U
FH	03	554690001	8/10/2021	Sb-124	-2.20E+00	5.89E+00	1.82E+01	U
FH	03	554690001	8/10/2021	Sb-125	6.06E+00	6.59E+00	2.15E+01	U
FH	03	554690001	8/10/2021	Se-75	2.19E+00	2.90E+00	9.65E+00	U
FH	03	554690001	8/10/2021	Th-228	9.96E+00	5.61E+00	1.39E+01	U
FH	03	554690001	8/10/2021	Th-230	0.00E+00	7.60E+00	1.67E+01	U
FH	03	554690001	8/10/2021	Tl-208	-1.15E+00	2.64E+00	8.36E+00	U
FH	03	554690001	8/10/2021	Zn-65	-1.02E+01	8.05E+00	2.24E+01	U
FH	03	554690001	8/10/2021	Zr-95	1.86E+00	4.77E+00	1.61E+01	U
FH	53	545141002	5/11/2021	Ac-228	2.40E+00	9.38E+00	3.21E+01	U
FH	53	545141002	5/11/2021	Ag-108m	8.95E-01	1.36E+00	4.74E+00	U
FH	53	545141002	5/11/2021	Ag-110m	3.13E+00	2.86E+00	9.77E+00	U
FH	53	545141002	5/11/2021	Ba-140	-1.27E+01	1.29E+01	3.88E+01	U
FH	53	545141002	5/11/2021	Be-7	-1.09E+01	1.47E+01	4.58E+01	U
FH	53	545141002	5/11/2021	Bi-214	-4.43E+00	4.95E+00	1.46E+01	U
FH	53	545141002	5/11/2021	Ce-141	-5.85E-01	2.89E+00	9.19E+00	U
FH	53	545141002	5/11/2021	Ce-144	-3.31E-01	1.01E+01	3.23E+01	U
FH	53	545141002	5/11/2021	Co-57	2.28E+00	1.38E+00	4.46E+00	U
FH	53	545141002	5/11/2021	Co-58	1.52E-01	1.76E+00	5.75E+00	U
FH	53	545141002	5/11/2021	Co-60	-5.93E-02	1.92E+00	6.44E+00	U
FH	53	545141002	5/11/2021	Cr-51	-1.83E+01	1.64E+01	5.06E+01	U
FH	53	545141002	5/11/2021	Cs-134	3.71E-02	2.12E+00	6.87E+00	U
FH	53	545141002	5/11/2021	Cs-137	6.46E-01	1.74E+00	5.87E+00	U
FH	53	545141002	5/11/2021	Fe-59	3.85E+00	4.47E+00	1.52E+01	U
FH	53	545141002	5/11/2021	I-131	-1.54E+00	4.22E+00	1.40E+01	U
FH	53	545141002	5/11/2021	K-40	3.44E+03	1.98E+02	4.67E+01	
FH	53	545141002	5/11/2021	La-140	-1.77E-01	3.43E+00	1.13E+01	U
FH	53	545141002	5/11/2021	Mn-54	7.65E-01	1.89E+00	6.30E+00	U
FH	53	545141002	5/11/2021	Nb-95	-9.97E-02	2.14E+00	6.92E+00	U
FH	53	545141002	5/11/2021	Pb-212	7.06E+00	5.92E+00	1.14E+01	U
FH	53	545141002	5/11/2021	Pb-214	-2.55E+00	4.19E+00	1.32E+01	U
FH	53	545141002	5/11/2021	Ra-226	-4.43E+00	4.95E+00	1.46E+01	U
FH	53	545141002	5/11/2021	Ru-103	2.51E+00	1.88E+00	6.54E+00	U
FH	53	545141002	5/11/2021	Ru-106	9.06E+00	1.70E+01	5.78E+01	U
FH	53	545141002	5/11/2021	Sb-124	-2.44E+00	4.65E+00	1.40E+01	U
FH	53	545141002	5/11/2021	Sb-125	1.10E+00	4.41E+00	1.51E+01	U
FH	53	545141002	5/11/2021	Se-75	-2.14E+00	2.25E+00	6.38E+00	U
FH	53	545141002	5/11/2021	Th-228	7.06E+00	5.92E+00	1.14E+01	U
FH	53	545141002	5/11/2021	Th-230	-4.43E+00	4.95E+00	1.46E+01	U
FH	53	545141002	5/11/2021	Tl-208	1.20E+00	3.10E+00	6.24E+00	U
FH	53	545141002	5/11/2021	Zn-65	-2.05E-01	5.24E+00	1.78E+01	U
FH	53	545141002	5/11/2021	Zr-95	2.35E+00	3.39E+00	1.16E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	53	554690002	8/25/2021	Ac-228	1.84E+00	1.02E+01	3.43E+01	U
FH	53	554690002	8/25/2021	Ag-108m	1.89E+00	1.97E+00	4.96E+00	U
FH	53	554690002	8/25/2021	Ag-110m	-2.62E+00	2.72E+00	8.00E+00	U
FH	53	554690002	8/25/2021	Ba-140	-9.03E+00	1.16E+01	3.44E+01	U
FH	53	554690002	8/25/2021	Be-7	-3.55E+01	2.02E+01	5.26E+01	U
FH	53	554690002	8/25/2021	Bi-214	-3.52E-01	5.15E+00	1.66E+01	U
FH	53	554690002	8/25/2021	Ce-141	-2.83E+00	3.41E+00	1.03E+01	U
FH	53	554690002	8/25/2021	Ce-144	4.91E+00	1.06E+01	3.44E+01	U
FH	53	554690002	8/25/2021	Co-57	-6.44E-01	1.27E+00	3.98E+00	U
FH	53	554690002	8/25/2021	Co-58	-4.44E-01	2.27E+00	7.40E+00	U
FH	53	554690002	8/25/2021	Co-60	-2.00E-01	2.67E+00	8.85E+00	U
FH	53	554690002	8/25/2021	Cr-51	1.18E+01	1.81E+01	6.12E+01	U
FH	53	554690002	8/25/2021	Cs-134	1.81E+00	2.27E+00	7.77E+00	U
FH	53	554690002	8/25/2021	Cs-137	-2.35E+00	2.39E+00	7.11E+00	U
FH	53	554690002	8/25/2021	Fe-59	1.18E+01	6.16E+00	2.02E+01	U
FH	53	554690002	8/25/2021	I-131	-1.86E+00	4.23E+00	1.35E+01	U
FH	53	554690002	8/25/2021	K-40	3.55E+03	2.13E+02	7.64E+01	
FH	53	554690002	8/25/2021	La-140	2.21E+00	4.40E+00	1.34E+01	U
FH	53	554690002	8/25/2021	Mn-54	-4.99E+00	2.45E+00	5.93E+00	U
FH	53	554690002	8/25/2021	Nb-95	2.57E+00	2.53E+00	8.62E+00	U
FH	53	554690002	8/25/2021	Pb-212	-2.55E+00	3.70E+00	1.21E+01	U
FH	53	554690002	8/25/2021	Pb-214	4.44E+00	6.36E+00	1.63E+01	U
FH	53	554690002	8/25/2021	Ra-226	-3.52E-01	5.15E+00	1.66E+01	U
FH	53	554690002	8/25/2021	Ru-103	6.60E-01	2.30E+00	6.69E+00	U
FH	53	554690002	8/25/2021	Ru-106	1.19E+01	1.89E+01	6.51E+01	U
FH	53	554690002	8/25/2021	Sb-124	-4.04E+00	4.97E+00	1.42E+01	U
FH	53	554690002	8/25/2021	Sb-125	-4.07E-01	5.62E+00	1.62E+01	U
FH	53	554690002	8/25/2021	Se-75	-5.63E-01	2.32E+00	7.72E+00	U
FH	53	554690002	8/25/2021	Th-228	-2.55E+00	3.70E+00	1.21E+01	U
FH	53	554690002	8/25/2021	Th-230	-3.52E-01	5.15E+00	1.66E+01	U
FH	53	554690002	8/25/2021	Tl-208	1.41E+00	2.49E+00	8.22E+00	U
FH	53	554690002	8/25/2021	Zn-65	-8.73E-01	6.70E+00	1.85E+01	U
FH	53	554690002	8/25/2021	Zr-95	2.04E+00	4.32E+00	1.47E+01	U
FH	53	562703001	11/17/2021	Ac-228	-8.26E+00	1.21E+01	3.78E+01	U
FH	53	562703001	11/17/2021	Ag-108m	4.74E+00	2.55E+00	7.98E+00	U
FH	53	562703001	11/17/2021	Ag-110m	-3.01E+00	3.99E+00	1.18E+01	U
FH	53	562703001	11/17/2021	Ba-140	6.16E+00	1.67E+01	5.64E+01	U
FH	53	562703001	11/17/2021	Be-7	2.49E+01	2.08E+01	7.15E+01	U
FH	53	562703001	11/17/2021	Bi-214	1.11E+01	7.88E+00	1.46E+01	U
FH	53	562703001	11/17/2021	Ce-141	-5.19E+00	4.00E+00	1.16E+01	U
FH	53	562703001	11/17/2021	Ce-144	1.84E+01	1.27E+01	4.15E+01	U
FH	53	562703001	11/17/2021	Co-57	1.24E+00	1.60E+00	5.30E+00	U
FH	53	562703001	11/17/2021	Co-58	-1.93E-01	2.89E+00	9.23E+00	U
FH	53	562703001	11/17/2021	Co-60	-7.84E-01	2.46E+00	7.88E+00	U
FH	53	562703001	11/17/2021	Cr-51	-4.17E+00	2.31E+01	7.84E+01	U
FH	53	562703001	11/17/2021	Cs-134	3.07E+00	2.71E+00	9.19E+00	U
FH	53	562703001	11/17/2021	Cs-137	-2.03E+00	2.39E+00	7.12E+00	U
FH	53	562703001	11/17/2021	Fe-59	5.57E+00	7.39E+00	2.57E+01	U
FH	53	562703001	11/17/2021	I-131	1.37E+01	7.75E+00	2.61E+01	U
FH	53	562703001	11/17/2021	K-40	3.55E+03	2.16E+02	6.08E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	53	562703001	11/17/2021	La-140	1.34E+00	4.61E+00	1.57E+01	U
FH	53	562703001	11/17/2021	Mn-54	1.20E+00	2.41E+00	8.00E+00	U
FH	53	562703001	11/17/2021	Nb-95	-9.80E+00	4.25E+00	7.79E+00	U
FH	53	562703001	11/17/2021	Pb-212	4.46E+00	7.30E+00	1.49E+01	U
FH	53	562703001	11/17/2021	Pb-214	0.00E+00	1.25E+01	1.90E+01	U
FH	53	562703001	11/17/2021	Ra-226	1.11E+01	7.88E+00	1.46E+01	U
FH	53	562703001	11/17/2021	Ru-103	8.84E-01	2.63E+00	8.91E+00	U
FH	53	562703001	11/17/2021	Ru-106	-2.19E+01	2.20E+01	6.51E+01	U
FH	53	562703001	11/17/2021	Sb-124	2.88E+00	4.53E+00	1.62E+01	U
FH	53	562703001	11/17/2021	Sb-125	2.78E+00	5.81E+00	1.99E+01	U
FH	53	562703001	11/17/2021	Se-75	-4.38E-02	2.95E+00	9.19E+00	U
FH	53	562703001	11/17/2021	Th-228	4.46E+00	7.30E+00	1.49E+01	U
FH	53	562703001	11/17/2021	Th-230	1.11E+01	7.88E+00	1.46E+01	U
FH	53	562703001	11/17/2021	Tl-208	-3.28E+00	2.75E+00	8.10E+00	U
FH	53	562703001	11/17/2021	Zn-65	-2.67E+00	6.00E+00	1.95E+01	U
FH	53	562703001	11/17/2021	Zr-95	1.95E+00	5.26E+00	1.74E+01	U
FH	03	564101001	11/29/2021	Ac-228	-2.35E-01	1.01E+01	3.02E+01	U
FH	03	564101001	11/29/2021	Ag-108m	-2.30E-01	1.59E+00	4.53E+00	U
FH	03	564101001	11/29/2021	Ag-110m	-3.81E+00	2.65E+00	7.40E+00	U
FH	03	564101001	11/29/2021	Ba-140	1.53E+01	1.47E+01	3.28E+01	U
FH	03	564101001	11/29/2021	Be-7	2.29E+00	1.40E+01	4.53E+01	U
FH	03	564101001	11/29/2021	Bi-214	8.83E+00	5.73E+00	1.04E+01	U
FH	03	564101001	11/29/2021	Ce-141	2.77E+00	4.64E+00	8.93E+00	U
FH	03	564101001	11/29/2021	Ce-144	-2.19E+00	1.08E+01	3.08E+01	U
FH	03	564101001	11/29/2021	Co-57	2.65E+00	1.50E+00	4.58E+00	U
FH	03	564101001	11/29/2021	Co-58	-4.85E-02	1.75E+00	5.81E+00	U
FH	03	564101001	11/29/2021	Co-60	-1.43E+00	1.78E+00	5.46E+00	U
FH	03	564101001	11/29/2021	Cr-51	-1.24E+01	1.63E+01	5.11E+01	U
FH	03	564101001	11/29/2021	Cs-134	-2.50E-01	2.09E+00	6.89E+00	U
FH	03	564101001	11/29/2021	Cs-137	0.00E+00	4.62E+00	6.20E+00	U
FH	03	564101001	11/29/2021	Fe-59	-6.78E+00	5.06E+00	1.26E+01	U
FH	03	564101001	11/29/2021	I-131	-4.30E+00	3.96E+00	1.19E+01	U
FH	03	564101001	11/29/2021	K-40	2.59E+03	1.61E+02	4.20E+01	
FH	03	564101001	11/29/2021	La-140	-4.63E+00	3.62E+00	9.81E+00	U
FH	03	564101001	11/29/2021	Mn-54	1.53E+00	1.85E+00	6.30E+00	U
FH	03	564101001	11/29/2021	Nb-95	-1.80E-01	2.03E+00	6.29E+00	U
FH	03	564101001	11/29/2021	Pb-212	0.00E+00	6.52E+00	9.13E+00	U
FH	03	564101001	11/29/2021	Pb-214	5.69E+00	7.01E+00	1.19E+01	U
FH	03	564101001	11/29/2021	Ra-226	8.83E+00	5.73E+00	1.04E+01	U
FH	03	564101001	11/29/2021	Ru-103	6.65E-01	2.00E+00	6.48E+00	U
FH	03	564101001	11/29/2021	Ru-106	7.33E+00	1.39E+01	4.81E+01	U
FH	03	564101001	11/29/2021	Sb-124	-7.59E-01	4.24E+00	1.37E+01	U
FH	03	564101001	11/29/2021	Sb-125	-5.34E+00	4.38E+00	1.26E+01	U
FH	03	564101001	11/29/2021	Se-75	-1.79E+00	2.12E+00	6.71E+00	U
FH	03	564101001	11/29/2021	Th-228	0.00E+00	6.52E+00	9.13E+00	U
FH	03	564101001	11/29/2021	Th-230	8.83E+00	5.73E+00	1.04E+01	U
FH	03	564101001	11/29/2021	Tl-208	-1.18E+00	2.20E+00	6.67E+00	U
FH	03	564101001	11/29/2021	Zn-65	-5.23E+00	5.04E+00	1.23E+01	U
FH	03	564101001	11/29/2021	Zr-95	-3.69E+00	3.19E+00	9.42E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	03	545141003	5/17/2021	Ac-228	-1.52E+02	8.96E+01	2.32E+02	U
FH	03	545141003	5/17/2021	Ag-108m	1.23E+00	1.26E+01	4.00E+01	U
FH	03	545141003	5/17/2021	Ag-110m	-8.40E+00	2.10E+01	6.20E+01	U
FH	03	545141003	5/17/2021	Ba-140	-8.16E+01	8.05E+01	2.03E+02	U
FH	03	545141003	5/17/2021	Be-7	-5.76E+01	1.24E+02	3.79E+02	U
FH	03	545141003	5/17/2021	Bi-214	1.81E+01	4.94E+01	1.30E+02	U
FH	03	545141003	5/17/2021	Ce-141	-3.16E+01	2.23E+01	5.82E+01	U
FH	03	545141003	5/17/2021	Ce-144	8.69E+01	7.38E+01	2.20E+02	U
FH	03	545141003	5/17/2021	Co-57	4.25E+00	1.01E+01	3.01E+01	U
FH	03	545141003	5/17/2021	Co-58	-3.12E+01	1.71E+01	3.63E+01	U
FH	03	545141003	5/17/2021	Co-60	1.17E+01	1.63E+01	5.55E+01	U
FH	03	545141003	5/17/2021	Cr-51	-1.19E+02	1.26E+02	3.78E+02	U
FH	03	545141003	5/17/2021	Cs-134	3.25E+00	1.70E+01	5.33E+01	U
FH	03	545141003	5/17/2021	Cs-137	2.53E+00	1.45E+01	4.58E+01	U
FH	03	545141003	5/17/2021	Fe-59	-5.90E+00	2.98E+01	9.60E+01	U
FH	03	545141003	5/17/2021	I-131	2.89E+01	2.21E+01	7.16E+01	U
FH	03	545141003	5/17/2021	K-40	3.50E+03	4.56E+02	4.93E+02	
FH	03	545141003	5/17/2021	La-140	-3.21E+01	2.87E+01	7.82E+01	U
FH	03	545141003	5/17/2021	Mn-54	5.48E+00	1.43E+01	4.53E+01	U
FH	03	545141003	5/17/2021	Nb-95	3.07E+01	1.76E+01	5.23E+01	U
FH	03	545141003	5/17/2021	Pb-212	4.01E+01	3.98E+01	9.91E+01	U
FH	03	545141003	5/17/2021	Pb-214	-4.99E+01	4.67E+01	1.11E+02	U
FH	03	545141003	5/17/2021	Ra-226	1.81E+01	4.94E+01	1.30E+02	U
FH	03	545141003	5/17/2021	Ru-103	2.06E+01	1.53E+01	4.92E+01	U
FH	03	545141003	5/17/2021	Ru-106	1.35E+02	1.82E+02	4.33E+02	U
FH	03	545141003	5/17/2021	Sb-124	1.80E+01	2.76E+01	9.57E+01	U
FH	03	545141003	5/17/2021	Sb-125	-2.32E+01	3.95E+01	1.21E+02	U
FH	03	545141003	5/17/2021	Se-75	-1.25E+00	1.54E+01	4.94E+01	U
FH	03	545141003	5/17/2021	Th-228	4.01E+01	3.98E+01	9.91E+01	U
FH	03	545141003	5/17/2021	Th-230	1.81E+01	4.94E+01	1.30E+02	U
FH	03	545141003	5/17/2021	Tl-208	0.00E+00	2.94E+01	3.96E+01	U
FH	03	545141003	5/17/2021	Zn-65	-9.74E+00	3.01E+01	9.54E+01	U
FH	03	545141003	5/17/2021	Zr-95	-2.14E+01	3.26E+01	7.83E+01	U
FH	53	537622002	2/8/2021	Ac-228	-2.10E+00	1.15E+01	3.54E+01	U
FH	53	537622002	2/8/2021	Ag-108m	6.80E-01	1.45E+00	5.00E+00	U
FH	53	537622002	2/8/2021	Ag-110m	2.43E+00	3.17E+00	1.08E+01	U
FH	53	537622002	2/8/2021	Ba-140	-1.81E+01	4.23E+01	1.37E+02	U
FH	53	537622002	2/8/2021	Be-7	-2.47E+01	2.48E+01	7.61E+01	U
FH	53	537622002	2/8/2021	Bi-214	1.33E+01	8.61E+00	1.67E+01	U
FH	53	537622002	2/8/2021	Ce-141	-7.43E+00	6.20E+00	1.81E+01	U
FH	53	537622002	2/8/2021	Ce-144	-1.06E+01	1.26E+01	3.80E+01	U
FH	53	537622002	2/8/2021	Co-57	-2.08E+00	1.91E+00	5.32E+00	U
FH	53	537622002	2/8/2021	Co-58	-2.52E+00	2.59E+00	7.49E+00	U
FH	53	537622002	2/8/2021	Co-60	1.06E+00	2.40E+00	8.38E+00	U
FH	53	537622002	2/8/2021	Cr-51	-1.07E+01	3.37E+01	1.14E+02	U
FH	53	537622002	2/8/2021	Cs-134	-1.35E+00	2.29E+00	7.06E+00	U
FH	53	537622002	2/8/2021	Cs-137	-5.19E-01	2.44E+00	7.23E+00	U
FH	53	537622002	2/8/2021	Fe-59	8.56E+00	7.59E+00	2.57E+01	U
FH	53	537622002	2/8/2021	I-131	-6.95E+01	4.07E+01	1.15E+02	U
FH	53	537622002	2/8/2021	K-40	3.51E+03	2.12E+02	6.36E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	53	537622002	2/8/2021	La-140	1.23E+01	1.26E+01	4.68E+01	U
FH	53	537622002	2/8/2021	Mn-54	4.73E-01	2.57E+00	7.58E+00	U
FH	53	537622002	2/8/2021	Nb-95	-5.85E-01	2.75E+00	8.83E+00	U
FH	53	537622002	2/8/2021	Pb-212	1.64E+00	5.26E+00	1.24E+01	U
FH	53	537622002	2/8/2021	Pb-214	-5.09E+00	4.69E+00	1.40E+01	U
FH	53	537622002	2/8/2021	Ra-226	1.33E+01	8.61E+00	1.67E+01	U
FH	53	537622002	2/8/2021	Ru-103	2.96E+00	3.31E+00	1.14E+01	U
FH	53	537622002	2/8/2021	Ru-106	-1.44E+01	1.72E+01	5.23E+01	U
FH	53	537622002	2/8/2021	Sb-124	-1.22E+01	7.17E+00	1.62E+01	U
FH	53	537622002	2/8/2021	Sb-125	2.73E+00	4.37E+00	1.52E+01	U
FH	53	537622002	2/8/2021	Se-75	-2.60E-01	2.75E+00	8.54E+00	U
FH	53	537622002	2/8/2021	Th-228	1.64E+00	5.26E+00	1.24E+01	U
FH	53	537622002	2/8/2021	Th-230	1.33E+01	8.61E+00	1.67E+01	U
FH	53	537622002	2/8/2021	Tl-208	-1.43E+00	2.30E+00	6.99E+00	U
FH	53	537622002	2/8/2021	Zn-65	5.04E+00	5.61E+00	1.89E+01	U
FH	53	537622002	2/8/2021	Zr-95	4.37E+00	4.90E+00	1.68E+01	U
FH	03	537622001	2/23/2021	Ac-228	2.71E+01	5.69E+01	1.19E+02	U
FH	03	537622001	2/23/2021	Ag-108m	4.86E+00	7.17E+00	2.50E+01	U
FH	03	537622001	2/23/2021	Ag-110m	-1.50E+01	1.41E+01	3.56E+01	U
FH	03	537622001	2/23/2021	Ba-140	9.75E+01	8.90E+01	3.04E+02	U
FH	03	537622001	2/23/2021	Be-7	-1.46E+01	7.74E+01	2.60E+02	U
FH	03	537622001	2/23/2021	Bi-214	-2.98E+01	2.43E+01	7.05E+01	U
FH	03	537622001	2/23/2021	Ce-141	-8.12E+00	1.61E+01	5.59E+01	U
FH	03	537622001	2/23/2021	Ce-144	-4.45E+01	4.89E+01	1.66E+02	U
FH	03	537622001	2/23/2021	Co-57	-4.77E+00	6.08E+00	2.10E+01	U
FH	03	537622001	2/23/2021	Co-58	-4.54E+00	8.94E+00	2.92E+01	U
FH	03	537622001	2/23/2021	Co-60	2.86E+00	8.28E+00	2.84E+01	U
FH	03	537622001	2/23/2021	Cr-51	1.69E+01	1.16E+02	3.82E+02	U
FH	03	537622001	2/23/2021	Cs-134	2.12E-01	8.47E+00	2.88E+01	U
FH	03	537622001	2/23/2021	Cs-137	9.14E-01	8.72E+00	2.87E+01	U
FH	03	537622001	2/23/2021	Fe-59	-5.86E+00	1.90E+01	6.04E+01	U
FH	03	537622001	2/23/2021	I-131	-7.83E+01	5.11E+01	1.56E+02	U
FH	03	537622001	2/23/2021	K-40	0.00E+00	3.04E+02	2.63E+02	U
FH	03	537622001	2/23/2021	La-140	-2.41E+01	2.70E+01	7.85E+01	U
FH	03	537622001	2/23/2021	Mn-54	-5.55E+00	7.60E+00	2.41E+01	U
FH	03	537622001	2/23/2021	Nb-95	-6.23E+00	1.10E+01	3.11E+01	U
FH	03	537622001	2/23/2021	Pb-212	9.84E+00	2.53E+01	6.01E+01	U
FH	03	537622001	2/23/2021	Pb-214	-5.61E+01	2.51E+01	6.35E+01	U
FH	03	537622001	2/23/2021	Ra-226	-2.98E+01	2.43E+01	7.05E+01	U
FH	03	537622001	2/23/2021	Ru-103	1.82E+00	1.08E+01	3.67E+01	U
FH	03	537622001	2/23/2021	Ru-106	1.31E+02	8.09E+01	2.10E+02	U
FH	03	537622001	2/23/2021	Sb-124	-2.24E+00	2.03E+01	6.50E+01	U
FH	03	537622001	2/23/2021	Sb-125	7.91E-01	2.20E+01	7.58E+01	U
FH	03	537622001	2/23/2021	Se-75	1.01E+00	1.22E+01	4.09E+01	U
FH	03	537622001	2/23/2021	Th-228	9.84E+00	2.53E+01	6.01E+01	U
FH	03	537622001	2/23/2021	Th-230	-2.98E+01	2.43E+01	7.05E+01	U
FH	03	537622001	2/23/2021	Tl-208	4.93E+00	1.69E+01	2.69E+01	U
FH	03	537622001	2/23/2021	Zn-65	1.56E+01	1.91E+01	6.48E+01	U
FH	03	537622001	2/23/2021	Zr-95	2.87E+01	1.75E+01	6.03E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
HA	04	545580001	5/21/2021	Ac-228	-4.08E+00	9.61E+00	2.46E+01	U
HA	04	545580001	5/21/2021	Ag-108m	2.47E+00	1.63E+00	5.37E+00	U
HA	04	545580001	5/21/2021	Ag-110m	3.08E-01	2.70E+00	9.16E+00	U
HA	04	545580001	5/21/2021	Ba-140	-2.94E+00	1.08E+01	2.97E+01	U
HA	04	545580001	5/21/2021	Be-7	-6.91E+00	1.44E+01	4.56E+01	U
HA	04	545580001	5/21/2021	Bi-214	1.90E-01	9.26E+00	1.14E+01	U
HA	04	545580001	5/21/2021	Ce-141	-4.65E+00	3.05E+00	7.26E+00	U
HA	04	545580001	5/21/2021	Ce-144	1.47E+00	8.91E+00	2.81E+01	U
HA	04	545580001	5/21/2021	Co-57	1.84E+00	1.39E+00	3.49E+00	U
HA	04	545580001	5/21/2021	Co-58	6.17E-02	1.90E+00	6.13E+00	U
HA	04	545580001	5/21/2021	Co-60	7.36E+00	4.87E+00	7.66E+00	U
HA	04	545580001	5/21/2021	Cr-51	2.54E+01	2.06E+01	4.84E+01	U
HA	04	545580001	5/21/2021	Cs-134	1.19E+00	2.12E+00	7.34E+00	U
HA	04	545580001	5/21/2021	Cs-137	2.34E+00	2.04E+00	6.73E+00	U
HA	04	545580001	5/21/2021	Fe-59	2.98E+00	4.04E+00	1.39E+01	U
HA	04	545580001	5/21/2021	I-131	-6.38E-01	2.52E+00	8.24E+00	U
HA	04	545580001	5/21/2021	K-40	2.71E+03	1.63E+02	5.91E+01	
HA	04	545580001	5/21/2021	La-140	-2.74E+00	2.50E+00	6.57E+00	U
HA	04	545580001	5/21/2021	Mn-54	9.28E-02	1.94E+00	6.58E+00	U
HA	04	545580001	5/21/2021	Nb-95	-5.21E+00	2.55E+00	5.41E+00	U
HA	04	545580001	5/21/2021	Pb-212	6.47E+00	5.62E+00	1.05E+01	U
HA	04	545580001	5/21/2021	Pb-214	0.00E+00	1.00E+01	1.42E+01	U
HA	04	545580001	5/21/2021	Ra-226	1.90E-01	9.26E+00	1.14E+01	U
HA	04	545580001	5/21/2021	Ru-103	-2.60E+00	1.74E+00	4.82E+00	U
HA	04	545580001	5/21/2021	Ru-106	6.60E+00	1.64E+01	5.39E+01	U
HA	04	545580001	5/21/2021	Sb-124	1.92E+00	4.10E+00	1.39E+01	U
HA	04	545580001	5/21/2021	Sb-125	4.49E+00	4.72E+00	1.58E+01	U
HA	04	545580001	5/21/2021	Se-75	8.14E-02	1.89E+00	6.40E+00	U
HA	04	545580001	5/21/2021	Th-228	6.47E+00	5.62E+00	1.05E+01	U
HA	04	545580001	5/21/2021	Th-230	1.90E-01	9.26E+00	1.14E+01	U
HA	04	545580001	5/21/2021	Tl-208	5.05E+00	2.87E+00	5.75E+00	U
HA	04	545580001	5/21/2021	Zn-65	9.89E-01	4.50E+00	1.51E+01	U
HA	04	545580001	5/21/2021	Zr-95	9.03E-01	3.54E+00	1.14E+01	U
HA	04	562688001	11/17/2021	Ac-228	1.61E+01	2.73E+01	5.22E+01	U
HA	04	562688001	11/17/2021	Ag-108m	1.47E+00	2.29E+00	7.86E+00	U
HA	04	562688001	11/17/2021	Ag-110m	-2.72E+00	4.22E+00	1.32E+01	U
HA	04	562688001	11/17/2021	Ba-140	-5.95E+01	2.65E+01	5.83E+01	U
HA	04	562688001	11/17/2021	Be-7	2.98E+01	2.55E+01	8.85E+01	U
HA	04	562688001	11/17/2021	Bi-214	2.58E+01	1.18E+01	2.88E+01	U
HA	04	562688001	11/17/2021	Ce-141	1.20E+00	4.31E+00	1.29E+01	U
HA	04	562688001	11/17/2021	Ce-144	-4.06E+01	1.62E+01	3.45E+01	U
HA	04	562688001	11/17/2021	Co-57	1.29E+00	1.62E+00	5.36E+00	U
HA	04	562688001	11/17/2021	Co-58	-2.37E+00	2.55E+00	7.47E+00	U
HA	04	562688001	11/17/2021	Co-60	-7.19E+00	4.20E+00	9.41E+00	U
HA	04	562688001	11/17/2021	Cr-51	3.17E+01	2.83E+01	9.82E+01	U
HA	04	562688001	11/17/2021	Cs-134	3.16E+00	3.38E+00	1.16E+01	U
HA	04	562688001	11/17/2021	Cs-137	-2.39E+00	3.21E+00	9.41E+00	U
HA	04	562688001	11/17/2021	Fe-59	-2.94E+00	8.17E+00	2.61E+01	U
HA	04	562688001	11/17/2021	I-131	-2.53E+01	1.03E+01	2.22E+01	U
HA	04	562688001	11/17/2021	K-40	2.27E+03	1.81E+02	9.54E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
HA	04	562688001	11/17/2021	La-140	-5.95E-01	8.31E+00	2.64E+01	U
HA	04	562688001	11/17/2021	Mn-54	-4.35E+00	3.89E+00	9.98E+00	U
HA	04	562688001	11/17/2021	Nb-95	-6.95E-01	3.35E+00	1.04E+01	U
HA	04	562688001	11/17/2021	Pb-212	7.54E+00	5.41E+00	1.19E+01	U
HA	04	562688001	11/17/2021	Pb-214	1.56E+01	9.83E+00	2.38E+01	U
HA	04	562688001	11/17/2021	Ra-226	2.58E+01	1.18E+01	2.88E+01	U
HA	04	562688001	11/17/2021	Ru-103	-1.62E+00	3.14E+00	9.79E+00	U
HA	04	562688001	11/17/2021	Ru-106	5.08E+00	2.97E+01	9.71E+01	U
HA	04	562688001	11/17/2021	Sb-124	-9.31E-01	6.82E+00	2.12E+01	U
HA	04	562688001	11/17/2021	Sb-125	-5.97E+00	7.12E+00	2.16E+01	U
HA	04	562688001	11/17/2021	Se-75	-1.50E+00	2.91E+00	9.56E+00	U
HA	04	562688001	11/17/2021	Th-228	7.54E+00	5.41E+00	1.19E+01	U
HA	04	562688001	11/17/2021	Th-230	2.58E+01	1.18E+01	2.88E+01	U
HA	04	562688001	11/17/2021	Tl-208	-3.17E+00	3.38E+00	8.54E+00	U
HA	04	562688001	11/17/2021	Zn-65	-2.16E+00	7.83E+00	2.52E+01	U
HA	04	562688001	11/17/2021	Zr-95	-5.49E+00	6.80E+00	1.95E+01	U
HA	52	562688002	11/15/2021	Ac-228	-1.12E+01	1.29E+01	3.64E+01	U
HA	52	562688002	11/15/2021	Ag-108m	3.46E-01	1.73E+00	5.96E+00	U
HA	52	562688002	11/15/2021	Ag-110m	-2.31E+00	3.58E+00	1.07E+01	U
HA	52	562688002	11/15/2021	Ba-140	1.14E+01	1.74E+01	6.05E+01	U
HA	52	562688002	11/15/2021	Be-7	4.63E+00	1.91E+01	6.58E+01	U
HA	52	562688002	11/15/2021	Bi-214	1.17E+01	7.50E+00	1.39E+01	U
HA	52	562688002	11/15/2021	Ce-141	5.64E-01	3.78E+00	1.26E+01	U
HA	52	562688002	11/15/2021	Ce-144	2.30E+00	1.15E+01	3.83E+01	U
HA	52	562688002	11/15/2021	Co-57	1.18E+00	1.40E+00	4.76E+00	U
HA	52	562688002	11/15/2021	Co-58	-1.39E+00	2.86E+00	8.84E+00	U
HA	52	562688002	11/15/2021	Co-60	-2.07E+00	3.48E+00	9.31E+00	U
HA	52	562688002	11/15/2021	Cr-51	1.10E+01	2.35E+01	7.59E+01	U
HA	52	562688002	11/15/2021	Cs-134	2.29E+00	2.34E+00	8.20E+00	U
HA	52	562688002	11/15/2021	Cs-137	-1.06E-01	2.44E+00	8.04E+00	U
HA	52	562688002	11/15/2021	Fe-59	1.15E+00	5.58E+00	1.81E+01	U
HA	52	562688002	11/15/2021	I-131	1.55E+01	1.19E+01	2.21E+01	U
HA	52	562688002	11/15/2021	K-40	2.39E+03	1.67E+02	6.43E+01	
HA	52	562688002	11/15/2021	La-140	5.20E+00	6.49E+00	2.33E+01	U
HA	52	562688002	11/15/2021	Mn-54	-1.54E+00	2.59E+00	6.79E+00	U
HA	52	562688002	11/15/2021	Nb-95	2.25E+00	2.55E+00	8.84E+00	U
HA	52	562688002	11/15/2021	Pb-212	6.02E+00	5.41E+00	1.09E+01	U
HA	52	562688002	11/15/2021	Pb-214	2.04E+00	5.35E+00	1.72E+01	U
HA	52	562688002	11/15/2021	Ra-226	1.17E+01	7.50E+00	1.39E+01	U
HA	52	562688002	11/15/2021	Ru-103	1.52E+00	2.77E+00	9.59E+00	U
HA	52	562688002	11/15/2021	Ru-106	4.63E+01	2.35E+01	8.05E+01	U
HA	52	562688002	11/15/2021	Sb-124	-1.97E+00	4.29E+00	1.25E+01	U
HA	52	562688002	11/15/2021	Sb-125	-1.11E+00	5.58E+00	1.88E+01	U
HA	52	562688002	11/15/2021	Se-75	-8.44E-01	2.62E+00	8.12E+00	U
HA	52	562688002	11/15/2021	Th-228	6.02E+00	5.41E+00	1.09E+01	U
HA	52	562688002	11/15/2021	Th-230	1.17E+01	7.50E+00	1.39E+01	U
HA	52	562688002	11/15/2021	Tl-208	0.00E+00	4.29E+00	5.58E+00	U
HA	52	562688002	11/15/2021	Zn-65	-5.14E+00	5.73E+00	1.75E+01	U
HA	52	562688002	11/15/2021	Zr-95	-4.11E+00	5.16E+00	1.54E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
HA	54	545580002	5/23/2021	Ac-228	-1.14E+01	1.04E+01	3.02E+01	U
HA	54	545580002	5/23/2021	Ag-108m	-1.46E+00	1.87E+00	5.59E+00	U
HA	54	545580002	5/23/2021	Ag-110m	1.53E+00	3.04E+00	1.03E+01	U
HA	54	545580002	5/23/2021	Ba-140	-1.37E+01	1.01E+01	2.60E+01	U
HA	54	545580002	5/23/2021	Be-7	9.18E+00	1.46E+01	5.02E+01	U
HA	54	545580002	5/23/2021	Bi-214	-3.25E-01	5.98E+00	1.63E+01	U
HA	54	545580002	5/23/2021	Ce-141	-2.55E+00	2.47E+00	7.37E+00	U
HA	54	545580002	5/23/2021	Ce-144	-3.23E+00	9.49E+00	3.04E+01	U
HA	54	545580002	5/23/2021	Co-57	1.06E-01	1.13E+00	3.71E+00	U
HA	54	545580002	5/23/2021	Co-58	-1.46E+00	1.85E+00	5.77E+00	U
HA	54	545580002	5/23/2021	Co-60	-2.99E+00	2.58E+00	7.44E+00	U
HA	54	545580002	5/23/2021	Cr-51	-2.57E+01	1.58E+01	4.39E+01	U
HA	54	545580002	5/23/2021	Cs-134	-3.92E+00	2.44E+00	6.78E+00	U
HA	54	545580002	5/23/2021	Cs-137	2.81E+00	2.47E+00	8.19E+00	U
HA	54	545580002	5/23/2021	Fe-59	5.68E+00	5.50E+00	1.84E+01	U
HA	54	545580002	5/23/2021	I-131	-2.33E+00	2.45E+00	7.30E+00	U
HA	54	545580002	5/23/2021	K-40	2.45E+03	1.63E+02	7.88E+01	
HA	54	545580002	5/23/2021	La-140	1.09E+00	2.72E+00	9.19E+00	U
HA	54	545580002	5/23/2021	Mn-54	-7.21E-01	2.19E+00	7.16E+00	U
HA	54	545580002	5/23/2021	Nb-95	-2.78E+00	2.10E+00	6.18E+00	U
HA	54	545580002	5/23/2021	Pb-212	1.11E+00	3.90E+00	1.17E+01	U
HA	54	545580002	5/23/2021	Pb-214	0.00E+00	8.78E+00	1.39E+01	U
HA	54	545580002	5/23/2021	Ra-226	-3.25E-01	5.98E+00	1.63E+01	U
HA	54	545580002	5/23/2021	Ru-103	-1.57E-01	1.91E+00	6.37E+00	U
HA	54	545580002	5/23/2021	Ru-106	3.60E+01	1.92E+01	6.27E+01	U
HA	54	545580002	5/23/2021	Sb-124	-5.41E+00	5.22E+00	1.51E+01	U
HA	54	545580002	5/23/2021	Sb-125	-9.22E-01	5.13E+00	1.61E+01	U
HA	54	545580002	5/23/2021	Se-75	6.28E-01	2.09E+00	7.05E+00	U
HA	54	545580002	5/23/2021	Th-228	1.11E+00	3.90E+00	1.17E+01	U
HA	54	545580002	5/23/2021	Th-230	-3.25E-01	5.98E+00	1.63E+01	U
HA	54	545580002	5/23/2021	Tl-208	-1.68E+00	2.93E+00	7.58E+00	U
HA	54	545580002	5/23/2021	Zn-65	1.31E+00	5.69E+00	1.86E+01	U
HA	54	545580002	5/23/2021	Zr-95	-6.54E+00	4.16E+00	1.19E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	06	545135001	5/11/2021	Ac-228	0.00E+00	1.22E+01	2.44E+01	U
MU	06	545135001	5/11/2021	Ag-108m	1.74E+00	1.11E+00	3.83E+00	U
MU	06	545135001	5/11/2021	Ag-110m	-5.68E-01	1.84E+00	5.80E+00	U
MU	06	545135001	5/11/2021	Ba-140	3.86E+00	7.86E+00	2.71E+01	U
MU	06	545135001	5/11/2021	Be-7	3.81E+01	1.78E+01	4.18E+01	U
MU	06	545135001	5/11/2021	Bi-214	1.17E+01	5.25E+00	1.21E+01	U
MU	06	545135001	5/11/2021	Ce-141	3.28E+00	2.50E+00	8.19E+00	U
MU	06	545135001	5/11/2021	Ce-144	7.24E+00	7.41E+00	2.48E+01	U
MU	06	545135001	5/11/2021	Co-57	-6.45E-01	9.47E-01	3.02E+00	U
MU	06	545135001	5/11/2021	Co-58	4.39E-02	1.62E+00	5.32E+00	U
MU	06	545135001	5/11/2021	Co-60	-8.92E-02	1.74E+00	5.86E+00	U
MU	06	545135001	5/11/2021	Cr-51	-1.98E+01	1.73E+01	4.46E+01	U
MU	06	545135001	5/11/2021	Cs-134	2.67E+00	1.70E+00	5.78E+00	U
MU	06	545135001	5/11/2021	Cs-137	6.29E-02	1.44E+00	4.79E+00	U
MU	06	545135001	5/11/2021	Fe-59	4.27E+00	3.53E+00	1.20E+01	U
MU	06	545135001	5/11/2021	I-131	-4.24E+00	4.30E+00	1.23E+01	U
MU	06	545135001	5/11/2021	K-40	1.19E+03	8.85E+01	5.40E+01	
MU	06	545135001	5/11/2021	La-140	-4.68E+00	3.38E+00	8.80E+00	U
MU	06	545135001	5/11/2021	Mn-54	1.01E+00	1.43E+00	4.83E+00	U
MU	06	545135001	5/11/2021	Nb-95	4.47E-02	1.39E+00	4.58E+00	U
MU	06	545135001	5/11/2021	Pb-212	8.54E+00	5.38E+00	9.80E+00	U
MU	06	545135001	5/11/2021	Pb-214	1.49E+00	3.76E+00	1.11E+01	U
MU	06	545135001	5/11/2021	Ra-226	1.17E+01	5.25E+00	1.21E+01	U
MU	06	545135001	5/11/2021	Ru-103	8.43E-01	1.45E+00	5.02E+00	U
MU	06	545135001	5/11/2021	Ru-106	7.48E+00	1.03E+01	3.28E+01	U
MU	06	545135001	5/11/2021	Sb-124	2.71E+00	3.16E+00	1.14E+01	U
MU	06	545135001	5/11/2021	Sb-125	1.26E+00	3.15E+00	1.10E+01	U
MU	06	545135001	5/11/2021	Se-75	-9.52E-01	1.80E+00	5.54E+00	U
MU	06	545135001	5/11/2021	Th-228	8.54E+00	5.38E+00	9.80E+00	U
MU	06	545135001	5/11/2021	Th-230	1.17E+01	5.25E+00	1.21E+01	U
MU	06	545135001	5/11/2021	Tl-208	-1.85E+00	2.07E+00	5.25E+00	U
MU	06	545135001	5/11/2021	Zn-65	4.27E+00	3.33E+00	1.13E+01	U
MU	06	545135001	5/11/2021	Zr-95	0.00E+00	6.28E+00	8.79E+00	U
MU	09	545140001	5/13/2021	Ac-228	1.84E+01	3.20E+01	1.12E+01	M
MU	09	545140001	5/13/2021	Ag-108m	-5.08E-01	3.08E+00	2.56E+00	U
MU	09	545140001	5/13/2021	Ag-110m	-1.08E+00	6.30E+00	4.92E+00	U
MU	09	545140001	5/13/2021	Ba-140	-1.32E+01	2.57E+01	1.83E+01	U
MU	09	545140001	5/13/2021	Be-7	6.23E+01	4.93E+01	4.01E+01	M
MU	09	545140001	5/13/2021	Bi-214	1.24E+01	2.29E+01	9.62E+00	M
MU	09	545140001	5/13/2021	Ce-141	-4.77E+00	8.25E+00	5.60E+00	U
MU	09	545140001	5/13/2021	Ce-144	-1.69E+01	2.54E+01	1.85E+01	U
MU	09	545140001	5/13/2021	Co-57	6.27E-01	3.08E+00	2.60E+00	U
MU	09	545140001	5/13/2021	Co-58	-1.06E+00	4.47E+00	3.46E+00	U
MU	09	545140001	5/13/2021	Co-60	2.71E+00	4.18E+00	3.94E+00	U
MU	09	545140001	5/13/2021	Cr-51	-2.92E+01	4.35E+01	3.24E+01	U
MU	09	545140001	5/13/2021	Cs-134	3.26E+00	4.14E+00	3.54E+00	U
MU	09	545140001	5/13/2021	Cs-137	-4.24E+00	5.34E+00	3.49E+00	U
MU	09	545140001	5/13/2021	Fe-59	4.17E+00	9.12E+00	8.33E+00	U
MU	09	545140001	5/13/2021	I-131	5.52E+00	1.00E+01	8.92E+00	U
MU	09	545140001	5/13/2021	K-40	1.71E+03	2.79E+02	3.58E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	09	545140001	5/13/2021	La-140	3.42E+00	9.79E+00	8.74E+00	U
MU	09	545140001	5/13/2021	Mn-54	0.00E+00	1.00E+01	3.16E+00	U
MU	09	545140001	5/13/2021	Nb-95	-1.35E+00	4.35E+00	3.31E+00	U
MU	09	545140001	5/13/2021	Pb-212	8.37E+00	1.32E+01	7.46E+00	M
MU	09	545140001	5/13/2021	Pb-214	4.73E+00	1.04E+01	8.61E+00	U
MU	09	545140001	5/13/2021	Ra-226	1.24E+01	2.29E+01	9.62E+00	M
MU	09	545140001	5/13/2021	Ru-103	1.20E+00	4.51E+00	3.93E+00	U
MU	09	545140001	5/13/2021	Ru-106	-4.60E+00	3.24E+01	2.62E+01	U
MU	09	545140001	5/13/2021	Sb-124	1.43E+00	7.30E+00	6.53E+00	U
MU	09	545140001	5/13/2021	Sb-125	5.13E+00	9.57E+00	8.55E+00	U
MU	09	545140001	5/13/2021	Se-75	1.53E+00	5.22E+00	4.28E+00	U
MU	09	545140001	5/13/2021	Th-228	8.37E+00	1.32E+01	7.46E+00	M
MU	09	545140001	5/13/2021	Th-230	1.24E+01	2.29E+01	9.62E+00	M
MU	09	545140001	5/13/2021	Tl-208	-2.39E+00	5.63E+00	4.18E+00	U
MU	09	545140001	5/13/2021	Zn-65	-9.63E+00	1.12E+01	7.27E+00	U
MU	09	545140001	5/13/2021	Zr-95	3.45E+00	6.93E+00	6.14E+00	U
MU	56	545135002	5/11/2021	Ac-228	4.12E+00	1.23E+01	2.89E+01	U
MU	56	545135002	5/11/2021	Ag-108m	-1.36E+00	1.33E+00	4.02E+00	U
MU	56	545135002	5/11/2021	Ag-110m	1.93E-01	2.22E+00	7.45E+00	U
MU	56	545135002	5/11/2021	Ba-140	8.73E+00	1.10E+01	3.67E+01	U
MU	56	545135002	5/11/2021	Be-7	3.82E+01	1.74E+01	5.48E+01	U
MU	56	545135002	5/11/2021	Bi-214	2.81E+01	7.31E+00	1.07E+01	
MU	56	545135002	5/11/2021	Ce-141	-2.18E+00	3.30E+00	9.37E+00	U
MU	56	545135002	5/11/2021	Ce-144	1.28E+01	1.00E+01	3.22E+01	U
MU	56	545135002	5/11/2021	Co-57	-4.52E-01	1.25E+00	3.99E+00	U
MU	56	545135002	5/11/2021	Co-58	3.01E-01	1.71E+00	5.79E+00	U
MU	56	545135002	5/11/2021	Co-60	1.72E-01	1.90E+00	6.17E+00	U
MU	56	545135002	5/11/2021	Cr-51	-1.52E+01	1.67E+01	5.31E+01	U
MU	56	545135002	5/11/2021	Cs-134	1.02E-01	1.61E+00	5.44E+00	U
MU	56	545135002	5/11/2021	Cs-137	2.01E+00	1.77E+00	5.83E+00	U
MU	56	545135002	5/11/2021	Fe-59	2.25E+00	3.85E+00	1.30E+01	U
MU	56	545135002	5/11/2021	I-131	-2.43E-01	4.39E+00	1.46E+01	U
MU	56	545135002	5/11/2021	K-40	1.76E+03	1.15E+02	3.81E+01	
MU	56	545135002	5/11/2021	La-140	-2.36E+00	3.62E+00	1.12E+01	U
MU	56	545135002	5/11/2021	Mn-54	-5.09E-01	1.86E+00	6.13E+00	U
MU	56	545135002	5/11/2021	Nb-95	2.54E+00	1.94E+00	6.68E+00	U
MU	56	545135002	5/11/2021	Pb-212	1.18E+01	7.20E+00	1.21E+01	U
MU	56	545135002	5/11/2021	Pb-214	4.33E+00	6.24E+00	1.32E+01	U
MU	56	545135002	5/11/2021	Ra-226	2.81E+01	7.31E+00	1.07E+01	
MU	56	545135002	5/11/2021	Ru-103	1.60E+00	1.89E+00	6.29E+00	U
MU	56	545135002	5/11/2021	Ru-106	4.78E+00	1.43E+01	4.65E+01	U
MU	56	545135002	5/11/2021	Sb-124	-4.19E+00	4.34E+00	1.26E+01	U
MU	56	545135002	5/11/2021	Sb-125	2.47E-01	4.09E+00	1.35E+01	U
MU	56	545135002	5/11/2021	Se-75	8.72E-01	1.91E+00	6.57E+00	U
MU	56	545135002	5/11/2021	Th-228	1.18E+01	7.20E+00	1.21E+01	U
MU	56	545135002	5/11/2021	Th-230	2.81E+01	7.31E+00	1.07E+01	
MU	56	545135002	5/11/2021	Tl-208	3.11E+00	2.52E+00	5.02E+00	U
MU	56	545135002	5/11/2021	Zn-65	5.08E+00	4.40E+00	1.49E+01	U
MU	56	545135002	5/11/2021	Zr-95	2.27E+00	3.41E+00	1.18E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	59	545579001	5/23/2021	Ac-228	2.97E+01	1.69E+01	4.37E+01	U
MU	59	545579001	5/23/2021	Ag-108m	1.92E+00	1.97E+00	6.89E+00	U
MU	59	545579001	5/23/2021	Ag-110m	3.40E+00	3.19E+00	1.10E+01	U
MU	59	545579001	5/23/2021	Ba-140	3.70E-01	9.86E+00	3.31E+01	U
MU	59	545579001	5/23/2021	Be-7	1.08E+01	1.96E+01	6.75E+01	U
MU	59	545579001	5/23/2021	Bi-214	-6.62E+00	7.16E+00	2.09E+01	U
MU	59	545579001	5/23/2021	Ce-141	-4.39E+00	3.52E+00	9.70E+00	U
MU	59	545579001	5/23/2021	Ce-144	1.83E+00	1.24E+01	4.15E+01	U
MU	59	545579001	5/23/2021	Co-57	-1.11E+00	1.60E+00	5.14E+00	U
MU	59	545579001	5/23/2021	Co-58	1.14E+00	2.48E+00	8.31E+00	U
MU	59	545579001	5/23/2021	Co-60	-1.44E+00	2.18E+00	6.52E+00	U
MU	59	545579001	5/23/2021	Cr-51	-1.22E+01	1.93E+01	5.75E+01	U
MU	59	545579001	5/23/2021	Cs-134	-3.97E+00	2.66E+00	6.78E+00	U
MU	59	545579001	5/23/2021	Cs-137	2.83E+00	2.67E+00	9.18E+00	U
MU	59	545579001	5/23/2021	Fe-59	5.84E+00	4.83E+00	1.75E+01	U
MU	59	545579001	5/23/2021	I-131	4.10E+00	3.41E+00	1.10E+01	U
MU	59	545579001	5/23/2021	K-40	1.24E+03	1.20E+02	7.25E+01	
MU	59	545579001	5/23/2021	La-140	1.95E+00	4.18E+00	1.44E+01	U
MU	59	545579001	5/23/2021	Mn-54	3.92E+00	2.63E+00	8.99E+00	U
MU	59	545579001	5/23/2021	Nb-95	-3.12E+00	2.73E+00	6.55E+00	U
MU	59	545579001	5/23/2021	Pb-212	5.50E+00	6.97E+00	1.20E+01	U
MU	59	545579001	5/23/2021	Pb-214	2.36E+00	7.46E+00	2.15E+01	U
MU	59	545579001	5/23/2021	Ra-226	-6.62E+00	7.16E+00	2.09E+01	U
MU	59	545579001	5/23/2021	Ru-103	-1.96E+00	2.33E+00	6.89E+00	U
MU	59	545579001	5/23/2021	Ru-106	-9.64E+00	2.20E+01	7.03E+01	U
MU	59	545579001	5/23/2021	Sb-124	-1.60E-01	4.12E+00	1.34E+01	U
MU	59	545579001	5/23/2021	Sb-125	-2.58E+00	5.72E+00	1.89E+01	U
MU	59	545579001	5/23/2021	Se-75	3.20E+00	3.00E+00	9.73E+00	U
MU	59	545579001	5/23/2021	Th-228	5.50E+00	6.97E+00	1.20E+01	U
MU	59	545579001	5/23/2021	Th-230	-6.62E+00	7.16E+00	2.09E+01	U
MU	59	545579001	5/23/2021	Tl-208	3.64E-01	4.23E+00	8.61E+00	U
MU	59	545579001	5/23/2021	Zn-65	-1.89E+01	7.43E+00	1.47E+01	U
MU	59	545579001	5/23/2021	Zr-95	1.13E+00	3.73E+00	1.25E+01	U
MU	06	562727001	11/17/2021	Ac-228	1.84E+01	2.40E+01	6.02E+01	U
MU	06	562727001	11/17/2021	Ag-108m	1.20E+01	5.28E+00	1.28E+01	U
MU	06	562727001	11/17/2021	Ag-110m	-7.68E+00	6.10E+00	1.46E+01	U
MU	06	562727001	11/17/2021	Ba-140	4.25E+01	2.89E+01	1.04E+02	U
MU	06	562727001	11/17/2021	Be-7	3.30E+01	4.16E+01	1.46E+02	U
MU	06	562727001	11/17/2021	Bi-214	2.07E+01	2.10E+01	4.83E+01	U
MU	06	562727001	11/17/2021	Ce-141	-5.22E+00	7.97E+00	2.38E+01	U
MU	06	562727001	11/17/2021	Ce-144	-9.25E+00	2.32E+01	7.28E+01	U
MU	06	562727001	11/17/2021	Co-57	1.37E+00	3.36E+00	1.12E+01	U
MU	06	562727001	11/17/2021	Co-58	-9.32E-01	3.76E+00	1.16E+01	U
MU	06	562727001	11/17/2021	Co-60	-2.88E+00	3.86E+00	1.06E+01	U
MU	06	562727001	11/17/2021	Cr-51	5.37E+00	4.32E+01	1.49E+02	U
MU	06	562727001	11/17/2021	Cs-134	1.06E+00	2.75E+00	9.61E+00	U
MU	06	562727001	11/17/2021	Cs-137	-7.93E-01	3.97E+00	1.27E+01	U
MU	06	562727001	11/17/2021	Fe-59	-1.22E+00	9.84E+00	3.28E+01	U
MU	06	562727001	11/17/2021	I-131	-3.24E+00	1.09E+01	3.62E+01	U
MU	06	562727001	11/17/2021	K-40	8.83E+02	1.62E+02	9.42E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	06	562727001	11/17/2021	La-140	-3.99E+00	8.85E+00	2.58E+01	U
MU	06	562727001	11/17/2021	Mn-54	-1.89E+00	4.38E+00	1.32E+01	U
MU	06	562727001	11/17/2021	Nb-95	-1.44E+00	4.80E+00	1.49E+01	U
MU	06	562727001	11/17/2021	Pb-212	-1.24E+00	8.15E+00	2.59E+01	U
MU	06	562727001	11/17/2021	Pb-214	2.01E+01	1.81E+01	4.51E+01	U
MU	06	562727001	11/17/2021	Ra-226	2.07E+01	2.10E+01	4.83E+01	U
MU	06	562727001	11/17/2021	Ru-103	-2.36E+00	4.00E+00	1.23E+01	U
MU	06	562727001	11/17/2021	Ru-106	-7.81E+01	4.55E+01	1.08E+02	U
MU	06	562727001	11/17/2021	Sb-124	4.63E-01	6.86E+00	2.30E+01	U
MU	06	562727001	11/17/2021	Sb-125	9.00E+00	9.57E+00	3.21E+01	U
MU	06	562727001	11/17/2021	Se-75	-3.02E-01	5.89E+00	1.83E+01	U
MU	06	562727001	11/17/2021	Th-228	-1.24E+00	8.15E+00	2.59E+01	U
MU	06	562727001	11/17/2021	Th-230	2.07E+01	2.10E+01	4.83E+01	U
MU	06	562727001	11/17/2021	Tl-208	4.33E+00	4.09E+00	1.11E+01	U
MU	06	562727001	11/17/2021	Zn-65	-3.11E+01	1.23E+01	1.54E+01	U
MU	06	562727001	11/17/2021	Zr-95	-1.61E+00	7.71E+00	2.42E+01	U
MU	56	562727002	11/17/2021	Ac-228	5.73E+01	3.51E+01	8.18E+01	U
MU	56	562727002	11/17/2021	Ag-108m	1.13E+00	3.21E+00	1.08E+01	U
MU	56	562727002	11/17/2021	Ag-110m	-8.53E-01	4.38E+00	1.19E+01	U
MU	56	562727002	11/17/2021	Ba-140	-5.86E+00	2.27E+01	6.92E+01	U
MU	56	562727002	11/17/2021	Be-7	0.00E+00	5.60E+01	1.05E+02	U
MU	56	562727002	11/17/2021	Bi-214	2.97E+00	1.09E+01	3.88E+01	U
MU	56	562727002	11/17/2021	Ce-141	-7.19E+00	8.14E+00	2.33E+01	U
MU	56	562727002	11/17/2021	Ce-144	-6.43E-01	2.80E+01	8.04E+01	U
MU	56	562727002	11/17/2021	Co-57	3.26E-01	3.31E+00	1.05E+01	U
MU	56	562727002	11/17/2021	Co-58	1.80E+00	4.23E+00	1.48E+01	U
MU	56	562727002	11/17/2021	Co-60	2.00E+00	4.11E+00	1.49E+01	U
MU	56	562727002	11/17/2021	Cr-51	5.15E+01	4.22E+01	1.47E+02	U
MU	56	562727002	11/17/2021	Cs-134	9.38E-01	4.46E+00	1.52E+01	U
MU	56	562727002	11/17/2021	Cs-137	-2.91E+00	3.91E+00	1.17E+01	U
MU	56	562727002	11/17/2021	Fe-59	6.69E+00	1.16E+01	4.01E+01	U
MU	56	562727002	11/17/2021	I-131	-5.34E+00	1.21E+01	3.29E+01	U
MU	56	562727002	11/17/2021	K-40	1.14E+03	1.54E+02	1.88E+02	
MU	56	562727002	11/17/2021	La-140	-3.58E+00	1.03E+01	2.94E+01	U
MU	56	562727002	11/17/2021	Mn-54	1.02E+01	4.08E+00	1.54E+01	U
MU	56	562727002	11/17/2021	Nb-95	-2.88E-01	4.42E+00	1.48E+01	U
MU	56	562727002	11/17/2021	Pb-212	6.87E+00	9.13E+00	3.15E+01	U
MU	56	562727002	11/17/2021	Pb-214	3.66E+01	1.64E+01	3.74E+01	U
MU	56	562727002	11/17/2021	Ra-226	2.97E+00	1.09E+01	3.88E+01	U
MU	56	562727002	11/17/2021	Ru-103	-4.05E+00	4.30E+00	1.17E+01	U
MU	56	562727002	11/17/2021	Ru-106	9.92E+00	3.91E+01	1.35E+02	U
MU	56	562727002	11/17/2021	Sb-124	9.08E+00	6.85E+00	3.03E+01	U
MU	56	562727002	11/17/2021	Sb-125	-1.73E+01	1.12E+01	2.71E+01	U
MU	56	562727002	11/17/2021	Se-75	-1.14E+00	5.40E+00	1.78E+01	U
MU	56	562727002	11/17/2021	Th-228	6.87E+00	9.13E+00	3.15E+01	U
MU	56	562727002	11/17/2021	Th-230	2.97E+00	1.09E+01	3.88E+01	U
MU	56	562727002	11/17/2021	Tl-208	1.42E+00	4.92E+00	1.70E+01	U
MU	56	562727002	11/17/2021	Zn-65	-2.79E+00	1.07E+01	3.32E+01	U
MU	56	562727002	11/17/2021	Zr-95	1.64E+00	5.85E+00	2.04E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	09	562681001	11/15/2021	Ac-228	1.59E+01	2.58E+01	5.08E+01	U
MU	09	562681001	11/15/2021	Ag-108m	3.14E+00	2.39E+00	8.07E+00	U
MU	09	562681001	11/15/2021	Ag-110m	-4.84E-01	3.42E+00	1.11E+01	U
MU	09	562681001	11/15/2021	Ba-140	4.77E+01	2.59E+01	8.54E+01	U
MU	09	562681001	11/15/2021	Be-7	0.00E+00	4.56E+01	8.26E+01	U
MU	09	562681001	11/15/2021	Bi-214	8.90E+00	7.37E+00	2.48E+01	U
MU	09	562681001	11/15/2021	Ce-141	-8.16E+00	6.04E+00	1.57E+01	U
MU	09	562681001	11/15/2021	Ce-144	-1.34E+01	1.81E+01	5.37E+01	U
MU	09	562681001	11/15/2021	Co-57	2.15E+00	2.27E+00	7.27E+00	U
MU	09	562681001	11/15/2021	Co-58	6.31E-01	2.94E+00	9.92E+00	U
MU	09	562681001	11/15/2021	Co-60	-1.55E+00	2.84E+00	8.83E+00	U
MU	09	562681001	11/15/2021	Cr-51	1.44E+01	2.79E+01	9.43E+01	U
MU	09	562681001	11/15/2021	Cs-134	-5.40E+00	3.23E+00	6.99E+00	U
MU	09	562681001	11/15/2021	Cs-137	-2.27E+00	2.53E+00	7.66E+00	U
MU	09	562681001	11/15/2021	Fe-59	-5.57E+00	7.49E+00	2.20E+01	U
MU	09	562681001	11/15/2021	I-131	-1.23E+01	9.23E+00	2.57E+01	U
MU	09	562681001	11/15/2021	K-40	1.25E+03	1.24E+02	8.65E+01	
MU	09	562681001	11/15/2021	La-140	-6.00E+00	9.00E+00	2.13E+01	U
MU	09	562681001	11/15/2021	Mn-54	-1.14E+00	2.43E+00	7.63E+00	U
MU	09	562681001	11/15/2021	Nb-95	-2.53E+00	3.62E+00	1.06E+01	U
MU	09	562681001	11/15/2021	Pb-212	-1.51E+00	5.81E+00	1.83E+01	U
MU	09	562681001	11/15/2021	Pb-214	1.85E+01	9.71E+00	2.44E+01	U
MU	09	562681001	11/15/2021	Ra-226	8.90E+00	7.37E+00	2.48E+01	U
MU	09	562681001	11/15/2021	Ru-103	9.96E-01	3.16E+00	1.03E+01	U
MU	09	562681001	11/15/2021	Ru-106	-2.32E+01	2.30E+01	6.93E+01	U
MU	09	562681001	11/15/2021	Sb-124	-9.04E+00	7.05E+00	1.67E+01	U
MU	09	562681001	11/15/2021	Sb-125	-9.18E+00	6.67E+00	1.79E+01	U
MU	09	562681001	11/15/2021	Se-75	-3.14E+00	3.29E+00	1.01E+01	U
MU	09	562681001	11/15/2021	Th-228	-1.51E+00	5.81E+00	1.83E+01	U
MU	09	562681001	11/15/2021	Th-230	8.89E+00	7.37E+00	2.48E+01	U
MU	09	562681001	11/15/2021	Tl-208	5.68E+00	5.68E+00	6.91E+00	U
MU	09	562681001	11/15/2021	Zn-65	7.20E+00	5.85E+00	1.94E+01	U
MU	09	562681001	11/15/2021	Zr-95	-2.61E+00	3.99E+00	1.21E+01	U
MU	59	562681002	11/15/2021	Ac-228	2.89E+01	1.28E+01	3.36E+01	U
MU	59	562681002	11/15/2021	Ag-108m	-4.36E-01	1.65E+00	5.35E+00	U
MU	59	562681002	11/15/2021	Ag-110m	1.15E+00	2.82E+00	9.79E+00	U
MU	59	562681002	11/15/2021	Ba-140	9.91E+00	1.60E+01	5.43E+01	U
MU	59	562681002	11/15/2021	Be-7	0.00E+00	3.51E+01	6.37E+01	U
MU	59	562681002	11/15/2021	Bi-214	1.14E+01	6.22E+00	2.02E+01	U
MU	59	562681002	11/15/2021	Ce-141	-8.06E+00	4.36E+00	9.74E+00	U
MU	59	562681002	11/15/2021	Ce-144	-1.04E+01	1.16E+01	3.50E+01	U
MU	59	562681002	11/15/2021	Co-57	1.00E+00	1.39E+00	4.68E+00	U
MU	59	562681002	11/15/2021	Co-58	-1.19E+00	2.11E+00	6.69E+00	U
MU	59	562681002	11/15/2021	Co-60	1.87E-01	2.00E+00	6.64E+00	U
MU	59	562681002	11/15/2021	Cr-51	-2.77E+01	1.95E+01	5.56E+01	U
MU	59	562681002	11/15/2021	Cs-134	2.09E+00	2.16E+00	7.77E+00	U
MU	59	562681002	11/15/2021	Cs-137	-2.84E-01	1.86E+00	5.84E+00	U
MU	59	562681002	11/15/2021	Fe-59	-7.51E+00	5.44E+00	1.40E+01	U
MU	59	562681002	11/15/2021	I-131	-2.05E-03	6.55E+00	2.20E+01	U
MU	59	562681002	11/15/2021	K-40	9.82E+02	1.05E+02	6.49E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	59	562681002	11/15/2021	La-140	8.29E-01	5.50E+00	1.89E+01	U
MU	59	562681002	11/15/2021	Mn-54	1.75E+00	1.89E+00	6.80E+00	U
MU	59	562681002	11/15/2021	Nb-95	1.53E+00	2.15E+00	7.64E+00	U
MU	59	562681002	11/15/2021	Pb-212	3.45E+00	6.49E+00	1.27E+01	U
MU	59	562681002	11/15/2021	Pb-214	1.13E+01	9.48E+00	1.92E+01	U
MU	59	562681002	11/15/2021	Ra-226	1.14E+01	6.22E+00	2.02E+01	U
MU	59	562681002	11/15/2021	Ru-103	-2.97E+00	2.32E+00	6.41E+00	U
MU	59	562681002	11/15/2021	Ru-106	4.55E+00	1.91E+01	6.29E+01	U
MU	59	562681002	11/15/2021	Sb-124	-2.46E+00	4.42E+00	1.41E+01	U
MU	59	562681002	11/15/2021	Sb-125	-6.88E-01	4.80E+00	1.58E+01	U
MU	59	562681002	11/15/2021	Se-75	1.08E+00	2.27E+00	7.98E+00	U
MU	59	562681002	11/15/2021	Th-228	3.45E+00	6.49E+00	1.27E+01	U
MU	59	562681002	11/15/2021	Th-230	1.14E+01	6.22E+00	2.02E+01	U
MU	59	562681002	11/15/2021	Tl-208	-1.57E+00	2.48E+00	6.51E+00	U
MU	59	562681002	11/15/2021	Zn-65	3.16E-01	6.01E+00	1.75E+01	U
MU	59	562681002	11/15/2021	Zr-95	-3.64E+00	5.02E+00	1.42E+01	U
MS	06	545135004	5/11/2021	Sr-89	2.95E+01	4.62E+01	7.97E+01	U
MS	06	545135004	5/11/2021	Sr-90	6.14E+01	5.58E+01	1.72E+02	U
MS	56	545135005	5/11/2021	Sr-89	1.11E+00	3.48E+01	8.43E+01	U
MS	56	545135005	5/11/2021	Sr-90	2.50E+00	2.67E+01	8.72E+01	U
MS	06	562727004	11/17/2021	Sr-89	-3.78E+00	5.87E+01	1.49E+02	U
MS	06	562727004	11/17/2021	Sr-90	2.01E+01	3.27E+01	1.02E+02	U
MS	56	562727005	11/17/2021	Sr-89	-2.77E+01	5.48E+01	1.42E+02	U
MS	56	562727005	11/17/2021	Sr-90	-2.08E+00	3.11E+01	1.03E+02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	02	545145001	5/11/2021	Ac-228	5.58E+02	1.51E+02	1.48E+02	
SE	02	545145001	5/11/2021	Ag-108m	5.13E+00	8.43E+00	3.06E+01	U
SE	02	545145001	5/11/2021	Ag-110m	-1.29E+01	1.80E+01	5.84E+01	U
SE	02	545145001	5/11/2021	Ba-140	-1.20E+01	7.76E+01	2.64E+02	U
SE	02	545145001	5/11/2021	Be-7	-1.79E+02	9.23E+01	2.39E+02	U
SE	02	545145001	5/11/2021	Bi-214	4.12E+02	6.63E+01	7.21E+01	
SE	02	545145001	5/11/2021	Ce-141	-8.80E+00	1.53E+01	5.37E+01	U
SE	02	545145001	5/11/2021	Ce-144	0.00E+00	9.56E+01	1.69E+02	U
SE	02	545145001	5/11/2021	Co-57	-3.56E+00	6.31E+00	2.27E+01	U
SE	02	545145001	5/11/2021	Co-58	1.83E+01	1.38E+01	4.98E+01	U
SE	02	545145001	5/11/2021	Co-60	1.13E+00	1.21E+01	3.98E+01	U
SE	02	545145001	5/11/2021	Cr-51	-1.92E+02	1.06E+02	3.18E+02	U
SE	02	545145001	5/11/2021	Cs-134	4.73E+01	1.85E+01	6.08E+01	U
SE	02	545145001	5/11/2021	Cs-137	3.19E+01	1.38E+01	4.64E+01	U
SE	02	545145001	5/11/2021	Fe-59	1.20E+01	3.13E+01	1.08E+02	U
SE	02	545145001	5/11/2021	I-131	-3.15E+01	2.95E+01	9.74E+01	U
SE	02	545145001	5/11/2021	K-40	1.50E+04	1.01E+03	4.62E+02	
SE	02	545145001	5/11/2021	La-140	8.90E+00	1.70E+01	6.18E+01	U
SE	02	545145001	5/11/2021	Mn-54	2.09E+01	1.38E+01	4.54E+01	U
SE	02	545145001	5/11/2021	Nb-95	2.02E+01	1.39E+01	5.00E+01	U
SE	02	545145001	5/11/2021	Pb-212	6.06E+02	5.20E+01	5.91E+01	
SE	02	545145001	5/11/2021	Pb-214	6.40E+02	6.61E+01	1.84E+02	
SE	02	545145001	5/11/2021	Ra-226	4.12E+02	6.63E+01	7.21E+01	
SE	02	545145001	5/11/2021	Ru-103	1.49E+01	1.28E+01	4.59E+01	U
SE	02	545145001	5/11/2021	Ru-106	-4.42E+01	9.80E+01	3.17E+02	U
SE	02	545145001	5/11/2021	Sb-124	2.14E+01	2.53E+01	9.29E+01	U
SE	02	545145001	5/11/2021	Sb-125	4.59E+01	2.91E+01	1.05E+02	U
SE	02	545145001	5/11/2021	Se-75	1.40E+01	1.22E+01	4.26E+01	U
SE	02	545145001	5/11/2021	Th-228	6.06E+02	5.20E+01	5.91E+01	
SE	02	545145001	5/11/2021	Th-230	4.12E+02	6.63E+01	7.21E+01	
SE	02	545145001	5/11/2021	Tl-208	1.83E+02	2.73E+01	4.58E+01	
SE	02	545145001	5/11/2021	Zn-65	1.53E+01	2.97E+01	9.19E+01	U
SE	02	545145001	5/11/2021	Zr-95	3.38E+01	2.32E+01	8.44E+01	U
SE	02	562731001	11/17/2021	Ac-228	1.51E+03	3.26E+02	3.50E+02	
SE	02	562731001	11/17/2021	Ag-108m	-4.66E+00	1.70E+01	5.97E+01	U
SE	02	562731001	11/17/2021	Ag-110m	-5.15E+01	3.19E+01	7.20E+01	U
SE	02	562731001	11/17/2021	Ba-140	4.92E+01	1.42E+02	5.10E+02	U
SE	02	562731001	11/17/2021	Be-7	3.53E+02	2.19E+02	8.07E+02	U
SE	02	562731001	11/17/2021	Bi-214	1.15E+03	1.36E+02	1.43E+02	
SE	02	562731001	11/17/2021	Ce-141	-1.86E+01	3.69E+01	1.30E+02	U
SE	02	562731001	11/17/2021	Ce-144	-1.95E+02	1.22E+02	3.81E+02	U
SE	02	562731001	11/17/2021	Co-57	1.05E+01	1.48E+01	5.52E+01	U
SE	02	562731001	11/17/2021	Co-58	-1.71E+01	2.74E+01	8.42E+01	U
SE	02	562731001	11/17/2021	Co-60	-5.92E-01	3.11E+01	1.07E+02	U
SE	02	562731001	11/17/2021	Cr-51	0.00E+00	6.17E+02	7.24E+02	U
SE	02	562731001	11/17/2021	Cs-134	4.18E+01	2.81E+01	1.02E+02	U
SE	02	562731001	11/17/2021	Cs-137	6.39E+00	2.41E+01	8.42E+01	U
SE	02	562731001	11/17/2021	Fe-59	-4.26E+01	6.75E+01	1.84E+02	U
SE	02	562731001	11/17/2021	I-131	2.49E+01	6.26E+01	2.33E+02	U
SE	02	562731001	11/17/2021	K-40	1.28E+04	1.21E+03	7.86E+02	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	02	562731001	11/17/2021	La-140	-2.28E+01	5.60E+01	1.71E+02	U
SE	02	562731001	11/17/2021	Mn-54	2.50E+01	2.62E+01	8.98E+01	U
SE	02	562731001	11/17/2021	Nb-95	1.85E+01	2.90E+01	1.02E+02	U
SE	02	562731001	11/17/2021	Pb-212	1.38E+03	1.52E+02	1.61E+02	
SE	02	562731001	11/17/2021	Pb-214	1.12E+03	1.47E+02	1.49E+02	
SE	02	562731001	11/17/2021	Ra-226	1.15E+03	1.36E+02	1.43E+02	
SE	02	562731001	11/17/2021	Ru-103	-2.29E+01	2.68E+01	8.70E+01	U
SE	02	562731001	11/17/2021	Ru-106	-2.90E+02	2.04E+02	5.61E+02	U
SE	02	562731001	11/17/2021	Sb-124	7.64E+01	5.17E+01	2.06E+02	U
SE	02	562731001	11/17/2021	Sb-125	3.43E+01	5.57E+01	2.07E+02	U
SE	02	562731001	11/17/2021	Se-75	4.91E+00	2.37E+01	8.22E+01	U
SE	02	562731001	11/17/2021	Th-228	1.38E+03	1.52E+02	1.61E+02	
SE	02	562731001	11/17/2021	Th-230	1.15E+03	1.36E+02	1.43E+02	
SE	02	562731001	11/17/2021	Tl-208	3.82E+02	7.14E+01	9.46E+01	
SE	02	562731001	11/17/2021	Zn-65	-1.63E+01	9.75E+01	2.06E+02	U
SE	02	562731001	11/17/2021	Zr-95	-7.98E+01	5.08E+01	1.29E+02	U
SE	07	545146001	5/13/2021	Ac-228	0.00E+00	1.49E+02	2.86E+02	U
SE	07	545146001	5/13/2021	Ag-108m	-7.54E+00	9.09E+00	2.46E+01	U
SE	07	545146001	5/13/2021	Ag-110m	7.90E+00	1.95E+01	6.01E+01	U
SE	07	545146001	5/13/2021	Ba-140	-1.56E+01	6.91E+01	2.36E+02	U
SE	07	545146001	5/13/2021	Be-7	-2.46E+01	8.73E+01	3.07E+02	U
SE	07	545146001	5/13/2021	Bi-214	0.00E+00	8.93E+01	1.42E+02	U
SE	07	545146001	5/13/2021	Ce-141	1.15E+01	1.40E+01	5.05E+01	U
SE	07	545146001	5/13/2021	Ce-144	7.89E+01	5.06E+01	1.81E+02	U
SE	07	545146001	5/13/2021	Co-57	2.69E+00	5.95E+00	2.20E+01	U
SE	07	545146001	5/13/2021	Co-58	-7.69E+00	1.14E+01	3.74E+01	U
SE	07	545146001	5/13/2021	Co-60	-5.36E+00	1.50E+01	4.92E+01	U
SE	07	545146001	5/13/2021	Cr-51	-7.62E+01	9.62E+01	3.21E+02	U
SE	07	545146001	5/13/2021	Cs-134	2.88E+00	1.34E+01	4.74E+01	U
SE	07	545146001	5/13/2021	Cs-137	1.36E+01	1.20E+01	4.10E+01	U
SE	07	545146001	5/13/2021	Fe-59	-4.95E+00	3.88E+01	1.10E+02	U
SE	07	545146001	5/13/2021	I-131	-2.17E+00	2.48E+01	8.52E+01	U
SE	07	545146001	5/13/2021	K-40	2.09E+04	1.29E+03	2.73E+02	
SE	07	545146001	5/13/2021	La-140	2.58E+01	2.49E+01	8.84E+01	U
SE	07	545146001	5/13/2021	Mn-54	1.08E+01	1.11E+01	3.99E+01	U
SE	07	545146001	5/13/2021	Nb-95	3.55E-01	1.34E+01	4.73E+01	U
SE	07	545146001	5/13/2021	Pb-212	2.81E+02	4.39E+01	6.02E+01	
SE	07	545146001	5/13/2021	Pb-214	2.12E+02	5.94E+01	6.84E+01	
SE	07	545146001	5/13/2021	Ra-226	0.00E+00	8.93E+01	1.42E+02	U
SE	07	545146001	5/13/2021	Ru-103	-7.04E+00	1.06E+01	3.56E+01	U
SE	07	545146001	5/13/2021	Ru-106	9.04E+01	9.60E+01	3.40E+02	U
SE	07	545146001	5/13/2021	Sb-124	-8.26E+00	2.69E+01	8.77E+01	U
SE	07	545146001	5/13/2021	Sb-125	-6.39E+00	2.45E+01	8.13E+01	U
SE	07	545146001	5/13/2021	Se-75	3.94E+00	1.22E+01	4.46E+01	U
SE	07	545146001	5/13/2021	Th-228	2.81E+02	4.39E+01	6.02E+01	
SE	07	545146001	5/13/2021	Th-230	0.00E+00	8.93E+01	1.42E+02	U
SE	07	545146001	5/13/2021	Tl-208	9.26E+01	1.90E+01	3.39E+01	
SE	07	545146001	5/13/2021	Zn-65	-2.39E+01	3.84E+01	1.22E+02	U
SE	07	545146001	5/13/2021	Zr-95	2.35E+01	2.13E+01	7.71E+01	U

Seabrook REMP Summary of 2021 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	07	562730001	11/15/2021	Ac-228	0.00E+00	1.48E+02	2.97E+02	U
SE	07	562730001	11/15/2021	Ag-108m	1.61E+01	9.82E+00	3.54E+01	U
SE	07	562730001	11/15/2021	Ag-110m	5.24E-01	1.66E+01	5.72E+01	U
SE	07	562730001	11/15/2021	Ba-140	1.61E+02	9.28E+01	3.28E+02	U
SE	07	562730001	11/15/2021	Be-7	4.07E+01	1.12E+02	3.98E+02	U
SE	07	562730001	11/15/2021	Bi-214	2.50E+02	5.62E+01	8.21E+01	
SE	07	562730001	11/15/2021	Ce-141	-2.56E+01	2.18E+01	6.42E+01	U
SE	07	562730001	11/15/2021	Ce-144	3.25E+01	7.03E+01	2.42E+02	U
SE	07	562730001	11/15/2021	Co-57	-1.03E+01	9.37E+00	2.91E+01	U
SE	07	562730001	11/15/2021	Co-58	-1.42E+00	1.29E+01	4.20E+01	U
SE	07	562730001	11/15/2021	Co-60	-1.22E+01	1.61E+01	4.80E+01	U
SE	07	562730001	11/15/2021	Cr-51	5.66E+00	1.19E+02	4.10E+02	U
SE	07	562730001	11/15/2021	Cs-134	1.40E+01	1.62E+01	5.55E+01	U
SE	07	562730001	11/15/2021	Cs-137	6.53E+00	1.29E+01	4.48E+01	U
SE	07	562730001	11/15/2021	Fe-59	3.45E+01	4.18E+01	9.77E+01	U
SE	07	562730001	11/15/2021	I-131	3.09E+01	3.97E+01	1.26E+02	U
SE	07	562730001	11/15/2021	K-40	1.89E+04	1.23E+03	3.60E+02	
SE	07	562730001	11/15/2021	La-140	-5.19E+00	2.70E+01	8.78E+01	U
SE	07	562730001	11/15/2021	Mn-54	1.51E+01	1.37E+01	4.46E+01	U
SE	07	562730001	11/15/2021	Nb-95	1.21E+01	1.22E+01	4.29E+01	U
SE	07	562730001	11/15/2021	Pb-212	4.30E+02	4.84E+01	6.31E+01	
SE	07	562730001	11/15/2021	Pb-214	2.00E+02	5.99E+01	1.49E+02	
SE	07	562730001	11/15/2021	Ra-226	2.50E+02	5.62E+01	8.21E+01	
SE	07	562730001	11/15/2021	Ru-103	-2.17E+01	1.16E+01	3.01E+01	U
SE	07	562730001	11/15/2021	Ru-106	5.89E+01	1.07E+02	3.76E+02	U
SE	07	562730001	11/15/2021	Sb-124	-4.05E+01	2.42E+01	4.58E+01	U
SE	07	562730001	11/15/2021	Sb-125	2.15E+01	3.04E+01	1.04E+02	U
SE	07	562730001	11/15/2021	Se-75	7.95E+00	1.43E+01	5.10E+01	U
SE	07	562730001	11/15/2021	Th-228	4.30E+02	4.84E+01	6.31E+01	
SE	07	562730001	11/15/2021	Th-230	2.50E+02	5.62E+01	8.21E+01	
SE	07	562730001	11/15/2021	Tl-208	1.19E+02	2.87E+01	3.74E+01	
SE	07	562730001	11/15/2021	Zn-65	1.07E+01	2.90E+01	8.79E+01	U
SE	07	562730001	11/15/2021	Zr-95	3.92E+01	2.58E+01	8.98E+01	U
SE	08	545146002	5/13/2021	Ac-228	3.21E+02	9.97E+01	1.12E+02	
SE	08	545146002	5/13/2021	Ag-108m	-8.40E+00	7.48E+00	2.18E+01	U
SE	08	545146002	5/13/2021	Ag-110m	2.79E+01	1.50E+01	5.19E+01	U
SE	08	545146002	5/13/2021	Ba-140	1.85E+01	4.60E+01	1.67E+02	U
SE	08	545146002	5/13/2021	Be-7	-6.54E+00	6.94E+01	2.49E+02	U
SE	08	545146002	5/13/2021	Bi-214	1.27E+02	4.42E+01	6.93E+01	
SE	08	545146002	5/13/2021	Ce-141	-9.26E+00	1.38E+01	4.42E+01	U
SE	08	545146002	5/13/2021	Ce-144	-8.67E+00	4.31E+01	1.55E+02	U
SE	08	545146002	5/13/2021	Co-57	-4.00E+00	5.07E+00	1.77E+01	U
SE	08	545146002	5/13/2021	Co-58	9.49E+00	9.77E+00	3.47E+01	U
SE	08	545146002	5/13/2021	Co-60	-1.67E+01	1.18E+01	3.05E+01	U
SE	08	545146002	5/13/2021	Cr-51	1.70E+01	8.07E+01	2.75E+02	U
SE	08	545146002	5/13/2021	Cs-134	2.65E+01	2.25E+01	3.75E+01	U
SE	08	545146002	5/13/2021	Cs-137	7.50E-01	1.05E+01	3.04E+01	U
SE	08	545146002	5/13/2021	Fe-59	-5.56E+00	2.35E+01	7.64E+01	U
SE	08	545146002	5/13/2021	I-131	-8.39E+00	2.01E+01	6.51E+01	U
SE	08	545146002	5/13/2021	K-40	1.87E+04	1.04E+03	1.88E+02	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	08	545146002	5/13/2021	La-140	-3.07E+01	2.80E+01	5.62E+01	U
SE	08	545146002	5/13/2021	Mn-54	-4.90E+00	8.78E+00	2.85E+01	U
SE	08	545146002	5/13/2021	Nb-95	-9.45E+00	1.05E+01	3.12E+01	U
SE	08	545146002	5/13/2021	Pb-212	3.27E+02	3.83E+01	4.63E+01	
SE	08	545146002	5/13/2021	Pb-214	3.48E+02	5.35E+01	5.77E+01	
SE	08	545146002	5/13/2021	Ra-226	1.27E+02	4.42E+01	6.93E+01	
SE	08	545146002	5/13/2021	Ru-103	3.41E+00	9.02E+00	3.29E+01	U
SE	08	545146002	5/13/2021	Ru-106	-2.49E+01	6.50E+01	2.21E+02	U
SE	08	545146002	5/13/2021	Sb-124	-3.33E+00	1.56E+01	5.08E+01	U
SE	08	545146002	5/13/2021	Sb-125	-7.40E+00	2.21E+01	7.08E+01	U
SE	08	545146002	5/13/2021	Se-75	1.58E+01	1.08E+01	3.74E+01	U
SE	08	545146002	5/13/2021	Th-228	3.27E+02	3.83E+01	4.63E+01	
SE	08	545146002	5/13/2021	Th-230	1.27E+02	4.42E+01	6.93E+01	
SE	08	545146002	5/13/2021	Tl-208	1.04E+02	2.29E+01	3.02E+01	
SE	08	545146002	5/13/2021	Zn-65	4.73E+00	2.30E+01	7.35E+01	U
SE	08	545146002	5/13/2021	Zr-95	-3.41E+00	1.62E+01	4.89E+01	U
SE	08	562730002	11/15/2021	Ac-228	3.43E+02	1.34E+02	2.25E+02	
SE	08	562730002	11/15/2021	Ag-108m	2.09E+01	1.31E+01	4.58E+01	U
SE	08	562730002	11/15/2021	Ag-110m	4.65E+01	5.39E+01	7.14E+01	U
SE	08	562730002	11/15/2021	Ba-140	-3.69E+01	9.92E+01	3.28E+02	U
SE	08	562730002	11/15/2021	Be-7	-1.41E+02	1.45E+02	3.91E+02	U
SE	08	562730002	11/15/2021	Bi-214	0.00E+00	6.39E+01	9.15E+01	U
SE	08	562730002	11/15/2021	Ce-141	-7.02E+00	2.33E+01	8.53E+01	U
SE	08	562730002	11/15/2021	Ce-144	-1.89E+00	7.53E+01	2.81E+02	U
SE	08	562730002	11/15/2021	Co-57	-1.12E+01	9.90E+00	3.45E+01	U
SE	08	562730002	11/15/2021	Co-58	-1.15E+01	1.53E+01	4.85E+01	U
SE	08	562730002	11/15/2021	Co-60	-1.10E+01	1.85E+01	5.81E+01	U
SE	08	562730002	11/15/2021	Cr-51	1.60E+02	1.47E+02	5.38E+02	U
SE	08	562730002	11/15/2021	Cs-134	4.30E+01	1.99E+01	6.62E+01	U
SE	08	562730002	11/15/2021	Cs-137	2.66E+01	2.88E+01	4.84E+01	U
SE	08	562730002	11/15/2021	Fe-59	4.68E+01	4.48E+01	1.40E+02	U
SE	08	562730002	11/15/2021	I-131	2.27E+01	4.62E+01	1.68E+02	U
SE	08	562730002	11/15/2021	K-40	0.00E+00	1.40E+03	3.97E+02	U
SE	08	562730002	11/15/2021	La-140	-1.06E+01	2.99E+01	9.64E+01	U
SE	08	562730002	11/15/2021	Mn-54	1.35E+01	1.62E+01	5.64E+01	U
SE	08	562730002	11/15/2021	Nb-95	3.08E+01	1.79E+01	6.18E+01	U
SE	08	562730002	11/15/2021	Pb-212	4.90E+02	6.06E+01	8.34E+01	
SE	08	562730002	11/15/2021	Pb-214	0.00E+00	6.88E+01	1.66E+02	U
SE	08	562730002	11/15/2021	Ra-226	0.00E+00	6.39E+01	9.15E+01	U
SE	08	562730002	11/15/2021	Ru-103	-4.33E+00	1.60E+01	5.41E+01	U
SE	08	562730002	11/15/2021	Ru-106	5.85E+01	1.22E+02	4.37E+02	U
SE	08	562730002	11/15/2021	Sb-124	-6.00E+00	3.18E+01	1.04E+02	U
SE	08	562730002	11/15/2021	Sb-125	2.42E+01	3.38E+01	1.21E+02	U
SE	08	562730002	11/15/2021	Se-75	5.40E+00	2.15E+01	6.70E+01	U
SE	08	562730002	11/15/2021	Th-228	4.90E+02	6.06E+01	8.34E+01	
SE	08	562730002	11/15/2021	Th-230	0.00E+00	6.39E+01	9.15E+01	U
SE	08	562730002	11/15/2021	Tl-208	1.07E+02	3.08E+01	4.23E+01	
SE	08	562730002	11/15/2021	Zn-65	2.13E+01	4.61E+01	1.43E+02	U
SE	08	562730002	11/15/2021	Zr-95	1.59E+01	2.57E+01	9.10E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	52	545145002	5/11/2021	Ac-228	9.38E+02	1.75E+02	2.34E+02	
SE	52	545145002	5/11/2021	Ag-108m	-2.16E+01	1.63E+01	4.99E+01	U
SE	52	545145002	5/11/2021	Ag-110m	1.57E+00	3.07E+01	9.97E+01	U
SE	52	545145002	5/11/2021	Ba-140	1.14E+02	1.37E+02	4.81E+02	U
SE	52	545145002	5/11/2021	Be-7	1.14E+02	1.68E+02	5.71E+02	U
SE	52	545145002	5/11/2021	Bi-214	7.72E+02	1.08E+02	1.37E+02	
SE	52	545145002	5/11/2021	Ce-141	-7.89E+00	2.90E+01	9.94E+01	U
SE	52	545145002	5/11/2021	Ce-144	-4.23E+01	9.05E+01	3.09E+02	U
SE	52	545145002	5/11/2021	Co-57	-9.26E+00	1.15E+01	3.87E+01	U
SE	52	545145002	5/11/2021	Co-58	9.37E+00	2.08E+01	7.01E+01	U
SE	52	545145002	5/11/2021	Co-60	4.58E+01	2.57E+01	9.05E+01	U
SE	52	545145002	5/11/2021	Cr-51	-6.46E+01	1.59E+02	5.56E+02	U
SE	52	545145002	5/11/2021	Cs-134	0.00E+00	5.04E+01	1.03E+02	U
SE	52	545145002	5/11/2021	Cs-137	1.45E+01	2.35E+01	8.07E+01	U
SE	52	545145002	5/11/2021	Fe-59	1.68E+01	4.45E+01	1.55E+02	U
SE	52	545145002	5/11/2021	I-131	-2.06E+01	4.53E+01	1.56E+02	U
SE	52	545145002	5/11/2021	K-40	1.35E+04	9.74E+02	4.04E+02	
SE	52	545145002	5/11/2021	La-140	8.16E+01	4.52E+01	1.49E+02	U
SE	52	545145002	5/11/2021	Mn-54	-4.13E+01	2.28E+01	5.58E+01	U
SE	52	545145002	5/11/2021	Nb-95	-1.31E+01	2.45E+01	7.70E+01	U
SE	52	545145002	5/11/2021	Pb-212	1.24E+03	8.77E+01	9.98E+01	
SE	52	545145002	5/11/2021	Pb-214	9.34E+02	1.04E+02	1.16E+02	
SE	52	545145002	5/11/2021	Ra-226	7.72E+02	1.08E+02	1.37E+02	
SE	52	545145002	5/11/2021	Ru-103	-1.83E+01	2.11E+01	6.73E+01	U
SE	52	545145002	5/11/2021	Ru-106	-1.47E+02	1.81E+02	5.63E+02	U
SE	52	545145002	5/11/2021	Sb-124	9.97E-01	4.19E+01	1.36E+02	U
SE	52	545145002	5/11/2021	Sb-125	1.22E+01	4.64E+01	1.64E+02	U
SE	52	545145002	5/11/2021	Se-75	1.48E+00	2.25E+01	7.43E+01	U
SE	52	545145002	5/11/2021	Th-228	1.24E+03	8.77E+01	9.98E+01	
SE	52	545145002	5/11/2021	Th-230	7.72E+02	1.08E+02	1.37E+02	
SE	52	545145002	5/11/2021	Tl-208	2.83E+02	4.96E+01	6.17E+01	
SE	52	545145002	5/11/2021	Zn-65	2.11E+00	4.56E+01	1.37E+02	U
SE	52	545145002	5/11/2021	Zr-95	6.79E+01	4.54E+01	1.44E+02	U
SE	52	562731002	11/17/2021	Ac-228	1.67E+03	1.85E+02	1.71E+02	
SE	52	562731002	11/17/2021	Ag-108m	-5.18E+00	1.11E+01	3.83E+01	U
SE	52	562731002	11/17/2021	Ag-110m	-1.62E+01	1.88E+01	5.52E+01	U
SE	52	562731002	11/17/2021	Ba-140	8.75E+01	1.00E+02	3.65E+02	U
SE	52	562731002	11/17/2021	Be-7	1.34E+02	1.33E+02	4.86E+02	U
SE	52	562731002	11/17/2021	Bi-214	1.10E+03	1.26E+02	1.01E+02	
SE	52	562731002	11/17/2021	Ce-141	-1.42E+01	2.73E+01	9.43E+01	U
SE	52	562731002	11/17/2021	Ce-144	2.13E+01	8.31E+01	3.00E+02	U
SE	52	562731002	11/17/2021	Co-57	8.67E+00	1.16E+01	4.22E+01	U
SE	52	562731002	11/17/2021	Co-58	1.58E+01	1.36E+01	4.81E+01	U
SE	52	562731002	11/17/2021	Co-60	1.28E+01	1.89E+01	6.15E+01	U
SE	52	562731002	11/17/2021	Cr-51	-1.35E+02	1.44E+02	4.94E+02	U
SE	52	562731002	11/17/2021	Cs-134	1.79E+01	1.87E+01	6.60E+01	U
SE	52	562731002	11/17/2021	Cs-137	-2.11E+01	1.81E+01	5.48E+01	U
SE	52	562731002	11/17/2021	Fe-59	1.44E+01	3.45E+01	1.12E+02	U
SE	52	562731002	11/17/2021	I-131	-1.47E+00	4.25E+01	1.39E+02	U
SE	52	562731002	11/17/2021	K-40	1.15E+04	8.92E+02	5.67E+02	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	52	562731002	11/17/2021	La-140	9.78E+00	3.90E+01	1.34E+02	U
SE	52	562731002	11/17/2021	Mn-54	-1.32E+00	1.75E+01	5.82E+01	U
SE	52	562731002	11/17/2021	Nb-95	-2.81E+01	2.33E+01	6.93E+01	U
SE	52	562731002	11/17/2021	Pb-212	1.74E+03	1.09E+02	8.22E+01	
SE	52	562731002	11/17/2021	Pb-214	1.29E+03	1.19E+02	3.12E+02	
SE	52	562731002	11/17/2021	Ra-226	1.10E+03	1.26E+02	1.01E+02	
SE	52	562731002	11/17/2021	Ru-103	-1.77E+01	1.62E+01	5.10E+01	U
SE	52	562731002	11/17/2021	Ru-106	-3.03E+02	1.52E+02	3.82E+02	U
SE	52	562731002	11/17/2021	Sb-124	3.10E+01	3.26E+01	1.21E+02	U
SE	52	562731002	11/17/2021	Sb-125	-1.48E+01	3.78E+01	1.32E+02	U
SE	52	562731002	11/17/2021	Se-75	1.24E+01	2.07E+01	6.62E+01	U
SE	52	562731002	11/17/2021	Th-228	1.74E+03	1.09E+02	8.22E+01	
SE	52	562731002	11/17/2021	Th-230	1.10E+03	1.26E+02	1.01E+02	
SE	52	562731002	11/17/2021	Tl-208	5.38E+02	5.01E+01	4.75E+01	
SE	52	562731002	11/17/2021	Zn-65	4.03E+01	3.46E+01	1.18E+02	U
SE	52	562731002	11/17/2021	Zr-95	7.06E+01	3.43E+01	1.20E+02	U
SE	57	545146003	5/11/2021	Ac-228	4.71E+02	1.25E+02	1.99E+02	
SE	57	545146003	5/11/2021	Ag-108m	-5.53E+00	1.20E+01	4.07E+01	U
SE	57	545146003	5/11/2021	Ag-110m	-7.15E+00	2.10E+01	6.61E+01	U
SE	57	545146003	5/11/2021	Ba-140	-1.15E+02	8.82E+01	2.51E+02	U
SE	57	545146003	5/11/2021	Be-7	1.71E+02	1.28E+02	4.71E+02	U
SE	57	545146003	5/11/2021	Bi-214	2.81E+02	6.19E+01	9.38E+01	
SE	57	545146003	5/11/2021	Ce-141	1.32E+00	4.55E+01	7.78E+01	U
SE	57	545146003	5/11/2021	Ce-144	2.40E+01	8.54E+01	3.03E+02	U
SE	57	545146003	5/11/2021	Co-57	-9.25E+00	1.06E+01	3.47E+01	U
SE	57	545146003	5/11/2021	Co-58	2.32E+00	1.62E+01	5.61E+01	U
SE	57	545146003	5/11/2021	Co-60	-2.84E+01	1.84E+01	4.51E+01	U
SE	57	545146003	5/11/2021	Cr-51	-1.36E+02	1.36E+02	4.48E+02	U
SE	57	545146003	5/11/2021	Cs-134	2.61E+01	1.81E+01	6.50E+01	U
SE	57	545146003	5/11/2021	Cs-137	-9.89E+00	1.45E+01	4.51E+01	U
SE	57	545146003	5/11/2021	Fe-59	4.06E+01	4.07E+01	1.49E+02	U
SE	57	545146003	5/11/2021	I-131	3.26E+01	4.02E+01	1.49E+02	U
SE	57	545146003	5/11/2021	K-40	2.38E+04	1.58E+03	4.05E+02	
SE	57	545146003	5/11/2021	La-140	-1.13E+01	3.13E+01	9.69E+01	U
SE	57	545146003	5/11/2021	Mn-54	-1.57E+01	1.67E+01	4.87E+01	U
SE	57	545146003	5/11/2021	Nb-95	-2.26E+01	1.96E+01	5.62E+01	U
SE	57	545146003	5/11/2021	Pb-212	4.31E+02	6.67E+01	7.70E+01	
SE	57	545146003	5/11/2021	Pb-214	3.09E+02	7.05E+01	1.08E+02	
SE	57	545146003	5/11/2021	Ra-226	2.81E+02	6.19E+01	9.38E+01	
SE	57	545146003	5/11/2021	Ru-103	9.35E+00	1.53E+01	5.54E+01	U
SE	57	545146003	5/11/2021	Ru-106	-1.15E+01	1.28E+02	4.34E+02	U
SE	57	545146003	5/11/2021	Sb-124	3.64E+01	2.89E+01	1.16E+02	U
SE	57	545146003	5/11/2021	Sb-125	6.71E+00	3.56E+01	1.27E+02	U
SE	57	545146003	5/11/2021	Se-75	1.26E+01	1.86E+01	6.74E+01	U
SE	57	545146003	5/11/2021	Th-228	4.31E+02	6.67E+01	7.70E+01	
SE	57	545146003	5/11/2021	Th-230	2.81E+02	6.19E+01	9.38E+01	
SE	57	545146003	5/11/2021	Tl-208	9.07E+01	3.69E+01	4.90E+01	
SE	57	545146003	5/11/2021	Zn-65	-1.98E+01	4.97E+01	1.44E+02	U
SE	57	545146003	5/11/2021	Zr-95	5.79E+01	4.05E+01	1.43E+02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	57	562730003	11/15/2021	Ac-228	0.00E+00	1.45E+02	2.25E+02	U
SE	57	562730003	11/15/2021	Ag-108m	1.50E+00	5.64E+00	2.03E+01	U
SE	57	562730003	11/15/2021	Ag-110m	-7.49E+00	1.27E+01	4.21E+01	U
SE	57	562730003	11/15/2021	Ba-140	8.53E+01	5.84E+01	2.07E+02	U
SE	57	562730003	11/15/2021	Be-7	4.60E+01	7.39E+01	2.54E+02	U
SE	57	562730003	11/15/2021	Bi-214	2.68E+02	4.50E+01	4.47E+01	
SE	57	562730003	11/15/2021	Ce-141	-1.22E+01	1.26E+01	3.65E+01	U
SE	57	562730003	11/15/2021	Ce-144	0.00E+00	6.85E+01	1.20E+02	U
SE	57	562730003	11/15/2021	Co-57	6.52E+00	4.58E+00	1.70E+01	U
SE	57	562730003	11/15/2021	Co-58	-4.97E+00	8.88E+00	2.58E+01	U
SE	57	562730003	11/15/2021	Co-60	-1.32E+01	1.22E+01	2.87E+01	U
SE	57	562730003	11/15/2021	Cr-51	1.90E+01	7.61E+01	2.83E+02	U
SE	57	562730003	11/15/2021	Cs-134	3.56E+01	2.08E+01	3.92E+01	U
SE	57	562730003	11/15/2021	Cs-137	-8.96E+00	1.01E+01	3.14E+01	U
SE	57	562730003	11/15/2021	Fe-59	7.79E-01	2.28E+01	7.69E+01	U
SE	57	562730003	11/15/2021	I-131	5.32E-01	2.12E+01	7.73E+01	U
SE	57	562730003	11/15/2021	K-40	1.23E+04	7.80E+02	3.46E+02	
SE	57	562730003	11/15/2021	La-140	-5.82E+00	1.48E+01	4.67E+01	U
SE	57	562730003	11/15/2021	Mn-54	-6.30E+00	8.01E+00	2.62E+01	U
SE	57	562730003	11/15/2021	Nb-95	-1.50E+00	1.05E+01	3.23E+01	U
SE	57	562730003	11/15/2021	Pb-212	3.30E+02	3.14E+01	3.90E+01	
SE	57	562730003	11/15/2021	Pb-214	2.08E+02	4.69E+01	5.35E+01	
SE	57	562730003	11/15/2021	Ra-226	2.68E+02	4.50E+01	4.47E+01	
SE	57	562730003	11/15/2021	Ru-103	-1.14E+01	9.28E+00	2.90E+01	U
SE	57	562730003	11/15/2021	Ru-106	5.60E+01	7.03E+01	2.46E+02	U
SE	57	562730003	11/15/2021	Sb-124	-1.84E+01	2.11E+01	6.17E+01	U
SE	57	562730003	11/15/2021	Sb-125	-1.62E+01	1.76E+01	5.82E+01	U
SE	57	562730003	11/15/2021	Se-75	-2.42E+00	1.08E+01	3.29E+01	U
SE	57	562730003	11/15/2021	Th-228	3.30E+02	3.14E+01	3.90E+01	
SE	57	562730003	11/15/2021	Th-230	2.68E+02	4.50E+01	4.47E+01	
SE	57	562730003	11/15/2021	Tl-208	9.89E+01	2.09E+01	2.41E+01	
SE	57	562730003	11/15/2021	Zn-65	-4.45E+01	2.96E+01	6.99E+01	U
SE	57	562730003	11/15/2021	Zr-95	1.10E+01	1.66E+01	6.03E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	02	547919004	6/16/2021	Ac-228	1.60E+01	1.46E+01	3.89E+01	U
TF	02	547919004	6/16/2021	Ag-108m	-7.09E-01	1.77E+00	5.82E+00	U
TF	02	547919004	6/16/2021	Ag-110m	4.93E+00	2.92E+00	1.01E+01	U
TF	02	547919004	6/16/2021	Ba-140	1.48E+00	1.01E+01	3.39E+01	U
TF	02	547919004	6/16/2021	Be-7	2.25E+01	1.90E+01	6.54E+01	U
TF	02	547919004	6/16/2021	Ce-141	4.45E+00	3.70E+00	1.21E+01	U
TF	02	547919004	6/16/2021	Ce-144	2.58E+00	1.32E+01	4.34E+01	U
TF	02	547919004	6/16/2021	Co-57	1.29E+00	1.62E+00	5.39E+00	U
TF	02	547919004	6/16/2021	Co-58	1.02E-01	1.98E+00	6.46E+00	U
TF	02	547919004	6/16/2021	Co-60	-1.95E+00	2.35E+00	7.06E+00	U
TF	02	547919004	6/16/2021	Cr-51	2.87E+01	2.13E+01	6.78E+01	U
TF	02	547919004	6/16/2021	Cs-134	4.31E+00	2.49E+00	8.51E+00	U
TF	02	547919004	6/16/2021	Cs-137	2.34E+00	2.28E+00	7.83E+00	U
TF	02	547919004	6/16/2021	Fe-59	2.28E+00	4.81E+00	1.59E+01	U
TF	02	547919004	6/16/2021	I-131	-8.08E-01	2.97E+00	8.93E+00	U
TF	02	547919004	6/16/2021	K-40	1.36E+03	1.20E+02	6.92E+01	
TF	02	547919004	6/16/2021	La-140	-4.78E+00	3.49E+00	8.63E+00	U
TF	02	547919004	6/16/2021	Mn-54	1.08E-04	1.98E+00	6.43E+00	U
TF	02	547919004	6/16/2021	Nb-95	-6.38E-01	2.10E+00	6.66E+00	U
TF	02	547919004	6/16/2021	Ru-103	8.13E-01	2.01E+00	6.88E+00	U
TF	02	547919004	6/16/2021	Ru-106	2.54E+00	1.90E+01	6.36E+01	U
TF	02	547919004	6/16/2021	Sb-124	-1.15E-01	5.06E+00	1.67E+01	U
TF	02	547919004	6/16/2021	Sb-125	-1.88E+00	5.26E+00	1.74E+01	U
TF	02	547919004	6/16/2021	Se-75	1.23E+00	2.79E+00	8.93E+00	U
TF	02	547919004	6/16/2021	Th-228	1.32E+00	6.90E+00	1.16E+01	U
TF	02	547919004	6/16/2021	Zn-65	-7.28E+00	6.45E+00	1.61E+01	U
TF	02	547919004	6/16/2021	Zr-95	-6.37E+00	4.91E+00	1.14E+01	U
TF	02	549905004	7/14/2021	Ac-228	-1.12E+01	1.32E+01	3.66E+01	U
TF	02	549905004	7/14/2021	Ag-108m	-4.31E-01	1.83E+00	5.98E+00	U
TF	02	549905004	7/14/2021	Ag-110m	4.01E+00	3.12E+00	1.08E+01	U
TF	02	549905004	7/14/2021	Ba-140	-1.45E-01	9.81E+00	3.22E+01	U
TF	02	549905004	7/14/2021	Be-7	5.46E+01	4.92E+01	8.12E+01	U
TF	02	549905004	7/14/2021	Ce-141	-5.26E-01	3.15E+00	1.02E+01	U
TF	02	549905004	7/14/2021	Ce-144	-4.52E-01	1.19E+01	3.87E+01	U
TF	02	549905004	7/14/2021	Co-57	-1.52E+00	1.84E+00	5.43E+00	U
TF	02	549905004	7/14/2021	Co-58	-8.12E+00	3.72E+00	7.23E+00	U
TF	02	549905004	7/14/2021	Co-60	7.27E-01	2.86E+00	9.67E+00	U
TF	02	549905004	7/14/2021	Cr-51	3.02E+00	2.14E+01	6.67E+01	U
TF	02	549905004	7/14/2021	Cs-134	5.67E+00	3.14E+00	1.09E+01	U
TF	02	549905004	7/14/2021	Cs-137	6.03E+00	2.94E+00	1.01E+01	U
TF	02	549905004	7/14/2021	Fe-59	-3.99E+00	5.71E+00	1.72E+01	U
TF	02	549905004	7/14/2021	I-131	6.03E+00	4.07E+00	1.41E+01	U
TF	02	549905004	7/14/2021	K-40	5.83E+02	9.22E+01	8.45E+01	
TF	02	549905004	7/14/2021	La-140	-7.48E+00	4.60E+00	8.65E+00	U
TF	02	549905004	7/14/2021	Mn-54	2.29E+00	2.74E+00	9.28E+00	U
TF	02	549905004	7/14/2021	Nb-95	-5.70E-01	2.77E+00	8.65E+00	U
TF	02	549905004	7/14/2021	Ru-103	-1.21E+00	2.54E+00	8.04E+00	U
TF	02	549905004	7/14/2021	Ru-106	-2.60E+01	2.44E+01	6.87E+01	U
TF	02	549905004	7/14/2021	Sb-124	-1.84E+00	8.37E+00	2.59E+01	U
TF	02	549905004	7/14/2021	Sb-125	-1.44E+00	6.09E+00	2.00E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	02	549905004	7/14/2021	Se-75	-3.61E+00	3.00E+00	8.06E+00	U
TF	02	549905004	7/14/2021	Th-228	-2.43E+00	4.78E+00	1.48E+01	U
TF	02	549905004	7/14/2021	Zn-65	6.06E+00	6.17E+00	2.04E+01	U
TF	02	549905004	7/14/2021	Zr-95	3.77E+00	4.99E+00	1.62E+01	U
TF	02	552744004	8/10/2021	Ac-228	-8.85E+00	1.46E+01	5.11E+01	U
TF	02	552744004	8/10/2021	Ag-108m	4.82E+00	2.82E+00	9.86E+00	U
TF	02	552744004	8/10/2021	Ag-110m	-2.16E+00	3.52E+00	1.05E+01	U
TF	02	552744004	8/10/2021	Ba-140	-3.21E+00	1.17E+01	3.65E+01	U
TF	02	552744004	8/10/2021	Be-7	0.00E+00	4.54E+01	6.74E+01	U
TF	02	552744004	8/10/2021	Ce-141	-1.60E+00	4.27E+00	1.33E+01	U
TF	02	552744004	8/10/2021	Ce-144	1.32E-01	1.74E+01	5.60E+01	U
TF	02	552744004	8/10/2021	Co-57	3.38E-01	2.15E+00	7.03E+00	U
TF	02	552744004	8/10/2021	Co-58	-4.52E+00	3.10E+00	7.78E+00	U
TF	02	552744004	8/10/2021	Co-60	1.11E+00	2.56E+00	8.98E+00	U
TF	02	552744004	8/10/2021	Cr-51	-6.27E+00	2.39E+01	7.88E+01	U
TF	02	552744004	8/10/2021	Cs-134	2.33E+00	3.41E+00	1.18E+01	U
TF	02	552744004	8/10/2021	Cs-137	1.49E+00	2.66E+00	9.07E+00	U
TF	02	552744004	8/10/2021	Fe-59	9.15E-01	7.34E+00	2.44E+01	U
TF	02	552744004	8/10/2021	I-131	2.24E-01	4.15E+00	1.25E+01	U
TF	02	552744004	8/10/2021	K-40	6.60E+02	1.05E+02	1.52E+02	
TF	02	552744004	8/10/2021	La-140	-1.01E+01	5.89E+00	1.16E+01	U
TF	02	552744004	8/10/2021	Mn-54	-3.20E+00	2.78E+00	7.50E+00	U
TF	02	552744004	8/10/2021	Nb-95	3.96E-01	2.53E+00	8.72E+00	U
TF	02	552744004	8/10/2021	Ru-103	1.84E+00	2.89E+00	9.94E+00	U
TF	02	552744004	8/10/2021	Ru-106	-7.13E+00	2.42E+01	7.41E+01	U
TF	02	552744004	8/10/2021	Sb-124	2.36E-01	5.65E+00	1.90E+01	U
TF	02	552744004	8/10/2021	Sb-125	-1.24E+00	7.62E+00	2.37E+01	U
TF	02	552744004	8/10/2021	Se-75	-1.56E+00	3.33E+00	1.09E+01	U
TF	02	552744004	8/10/2021	Th-228	-8.93E+00	6.51E+00	1.99E+01	U
TF	02	552744004	8/10/2021	Zn-65	-1.17E-01	6.54E+00	2.14E+01	U
TF	02	552744004	8/10/2021	Zr-95	-8.27E+00	5.77E+00	1.51E+01	U
TF	03	547919005	6/16/2021	Ac-228	2.86E+01	1.77E+01	4.25E+01	U
TF	03	547919005	6/16/2021	Ag-108m	-2.56E+00	1.78E+00	4.90E+00	U
TF	03	547919005	6/16/2021	Ag-110m	-2.42E+00	3.74E+00	1.10E+01	U
TF	03	547919005	6/16/2021	Ba-140	-5.76E+00	9.41E+00	2.89E+01	U
TF	03	547919005	6/16/2021	Be-7	4.73E+01	2.37E+01	7.90E+01	U
TF	03	547919005	6/16/2021	Ce-141	-1.43E-02	2.96E+00	9.50E+00	U
TF	03	547919005	6/16/2021	Ce-144	9.22E+00	1.11E+01	3.69E+01	U
TF	03	547919005	6/16/2021	Co-57	1.45E+00	1.59E+00	5.26E+00	U
TF	03	547919005	6/16/2021	Co-58	1.93E-01	1.94E+00	6.30E+00	U
TF	03	547919005	6/16/2021	Co-60	1.79E+00	2.90E+00	1.02E+01	U
TF	03	547919005	6/16/2021	Cr-51	-1.24E+01	1.82E+01	5.86E+01	U
TF	03	547919005	6/16/2021	Cs-134	-5.25E-01	2.57E+00	8.08E+00	U
TF	03	547919005	6/16/2021	Cs-137	-1.46E+00	2.15E+00	6.03E+00	U
TF	03	547919005	6/16/2021	Fe-59	-1.36E+01	6.46E+00	1.44E+01	U
TF	03	547919005	6/16/2021	I-131	2.08E-01	3.16E+00	1.07E+01	U
TF	03	547919005	6/16/2021	K-40	1.60E+03	1.32E+02	7.37E+01	
TF	03	547919005	6/16/2021	La-140	3.54E+00	3.57E+00	1.32E+01	U
TF	03	547919005	6/16/2021	Mn-54	5.33E+00	3.89E+00	6.34E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	03	547919005	6/16/2021	Nb-95	-1.08E+00	2.12E+00	6.40E+00	U
TF	03	547919005	6/16/2021	Ru-103	-3.75E+00	2.19E+00	5.56E+00	U
TF	03	547919005	6/16/2021	Ru-106	-8.84E+00	1.80E+01	5.56E+01	U
TF	03	547919005	6/16/2021	Sb-124	-1.12E+00	4.18E+00	1.28E+01	U
TF	03	547919005	6/16/2021	Sb-125	-7.43E+00	6.68E+00	1.73E+01	U
TF	03	547919005	6/16/2021	Se-75	-3.83E-01	2.32E+00	7.90E+00	U
TF	03	547919005	6/16/2021	Th-228	6.85E+00	1.19E+01	2.04E+01	U
TF	03	547919005	6/16/2021	Zn-65	-1.52E+00	5.13E+00	1.67E+01	U
TF	03	547919005	6/16/2021	Zr-95	2.91E+00	4.49E+00	1.52E+01	U
TF	03	549905005	7/14/2021	Ac-228	2.17E+01	1.30E+01	4.53E+01	U
TF	03	549905005	7/14/2021	Ag-108m	-3.57E+00	2.29E+00	5.99E+00	U
TF	03	549905005	7/14/2021	Ag-110m	-3.97E+00	3.82E+00	1.13E+01	U
TF	03	549905005	7/14/2021	Ba-140	2.46E+01	1.32E+01	4.44E+01	U
TF	03	549905005	7/14/2021	Be-7	5.18E+01	2.97E+01	7.55E+01	U
TF	03	549905005	7/14/2021	Ce-141	-1.26E+01	6.09E+00	1.29E+01	U
TF	03	549905005	7/14/2021	Ce-144	6.37E+00	1.51E+01	5.16E+01	U
TF	03	549905005	7/14/2021	Co-57	6.99E-02	1.85E+00	6.27E+00	U
TF	03	549905005	7/14/2021	Co-58	-1.73E+00	2.48E+00	7.71E+00	U
TF	03	549905005	7/14/2021	Co-60	2.11E+00	3.49E+00	1.09E+01	U
TF	03	549905005	7/14/2021	Cr-51	3.69E+00	2.31E+01	7.65E+01	U
TF	03	549905005	7/14/2021	Cs-134	9.39E+00	6.94E+00	1.28E+01	U
TF	03	549905005	7/14/2021	Cs-137	4.16E+00	3.28E+00	1.10E+01	U
TF	03	549905005	7/14/2021	Fe-59	-6.15E+00	7.62E+00	1.96E+01	U
TF	03	549905005	7/14/2021	I-131	8.10E+00	5.97E+00	1.22E+01	U
TF	03	549905005	7/14/2021	K-40	2.42E+03	1.89E+02	1.12E+02	
TF	03	549905005	7/14/2021	La-140	2.43E+00	4.95E+00	1.70E+01	U
TF	03	549905005	7/14/2021	Mn-54	-1.71E-01	2.82E+00	9.47E+00	U
TF	03	549905005	7/14/2021	Nb-95	5.85E+00	6.58E+00	8.36E+00	U
TF	03	549905005	7/14/2021	Ru-103	-9.84E-01	3.27E+00	9.26E+00	U
TF	03	549905005	7/14/2021	Ru-106	-1.80E-02	2.50E+01	7.98E+01	U
TF	03	549905005	7/14/2021	Sb-124	2.51E+00	7.26E+00	2.45E+01	U
TF	03	549905005	7/14/2021	Sb-125	7.31E+00	7.06E+00	2.38E+01	U
TF	03	549905005	7/14/2021	Se-75	5.25E-01	2.98E+00	9.94E+00	U
TF	03	549905005	7/14/2021	Th-228	2.87E-01	9.07E+00	1.76E+01	U
TF	03	549905005	7/14/2021	Zn-65	-3.83E+00	6.38E+00	1.98E+01	U
TF	03	549905005	7/14/2021	Zr-95	2.24E+00	4.89E+00	1.60E+01	U
TF	03	552744005	8/10/2021	Ac-228	-1.64E+01	1.58E+01	4.49E+01	U
TF	03	552744005	8/10/2021	Ag-108m	-3.74E-01	2.42E+00	7.84E+00	U
TF	03	552744005	8/10/2021	Ag-110m	-2.54E+00	5.18E+00	1.44E+01	U
TF	03	552744005	8/10/2021	Ba-140	2.64E+01	1.52E+01	5.18E+01	U
TF	03	552744005	8/10/2021	Be-7	-4.51E+01	2.71E+01	7.01E+01	U
TF	03	552744005	8/10/2021	Ce-141	-2.52E+00	3.78E+00	1.02E+01	U
TF	03	552744005	8/10/2021	Ce-144	2.15E+01	1.32E+01	4.22E+01	U
TF	03	552744005	8/10/2021	Co-57	2.79E-01	1.69E+00	5.36E+00	U
TF	03	552744005	8/10/2021	Co-58	5.21E-01	3.07E+00	1.05E+01	U
TF	03	552744005	8/10/2021	Co-60	-7.66E-01	3.73E+00	1.19E+01	U
TF	03	552744005	8/10/2021	Cr-51	-2.74E+00	2.37E+01	7.85E+01	U
TF	03	552744005	8/10/2021	Cs-134	-1.39E-01	3.23E+00	1.09E+01	U
TF	03	552744005	8/10/2021	Cs-137	8.54E-01	3.00E+00	9.83E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	03	552744005	8/10/2021	Fe-59	4.38E+00	7.46E+00	2.59E+01	U
TF	03	552744005	8/10/2021	I-131	5.96E+00	4.34E+00	1.49E+01	U
TF	03	552744005	8/10/2021	K-40	1.70E+03	1.55E+02	8.54E+01	
TF	03	552744005	8/10/2021	La-140	1.62E+00	6.96E+00	2.31E+01	U
TF	03	552744005	8/10/2021	Mn-54	-4.11E+00	3.45E+00	1.01E+01	U
TF	03	552744005	8/10/2021	Nb-95	-1.13E+00	3.18E+00	1.05E+01	U
TF	03	552744005	8/10/2021	Ru-103	6.71E-01	2.88E+00	9.53E+00	U
TF	03	552744005	8/10/2021	Ru-106	5.56E+01	3.19E+01	1.07E+02	U
TF	03	552744005	8/10/2021	Sb-124	-8.20E+00	8.06E+00	2.02E+01	U
TF	03	552744005	8/10/2021	Sb-125	-1.26E+00	7.10E+00	2.30E+01	U
TF	03	552744005	8/10/2021	Se-75	1.49E+00	3.09E+00	1.06E+01	U
TF	03	552744005	8/10/2021	Th-228	2.45E+00	6.37E+00	1.70E+01	U
TF	03	552744005	8/10/2021	Zn-65	5.10E+00	8.16E+00	2.83E+01	U
TF	03	552744005	8/10/2021	Zr-95	-3.72E+00	6.11E+00	1.80E+01	U
TF	06	547919006	6/16/2021	Ac-228	-1.19E+01	1.75E+01	5.99E+01	U
TF	06	547919006	6/16/2021	Ag-108m	-6.62E-01	2.94E+00	9.28E+00	U
TF	06	547919006	6/16/2021	Ag-110m	3.73E+00	5.22E+00	1.87E+01	U
TF	06	547919006	6/16/2021	Ba-140	-1.48E+01	1.69E+01	4.69E+01	U
TF	06	547919006	6/16/2021	Be-7	8.97E+01	3.92E+01	1.32E+02	U
TF	06	547919006	6/16/2021	Ce-141	-4.58E+00	5.83E+00	1.62E+01	U
TF	06	547919006	6/16/2021	Ce-144	-4.21E+01	2.16E+01	5.55E+01	U
TF	06	547919006	6/16/2021	Co-57	4.30E-02	2.42E+00	8.20E+00	U
TF	06	547919006	6/16/2021	Co-58	3.40E+00	2.89E+00	1.10E+01	U
TF	06	547919006	6/16/2021	Co-60	1.36E+00	1.39E+00	6.32E+00	U
TF	06	547919006	6/16/2021	Cr-51	-1.97E+01	3.32E+01	1.03E+02	U
TF	06	547919006	6/16/2021	Cs-134	7.94E+00	4.29E+00	1.59E+01	U
TF	06	547919006	6/16/2021	Cs-137	-3.77E+00	3.76E+00	9.83E+00	U
TF	06	547919006	6/16/2021	Fe-59	3.21E+00	8.13E+00	2.83E+01	U
TF	06	547919006	6/16/2021	I-131	-4.88E+00	6.06E+00	1.79E+01	U
TF	06	547919006	6/16/2021	K-40	2.04E+03	2.07E+02	9.15E+01	
TF	06	547919006	6/16/2021	La-140	3.05E+00	4.53E+00	1.71E+01	U
TF	06	547919006	6/16/2021	Mn-54	5.12E-01	3.65E+00	1.25E+01	U
TF	06	547919006	6/16/2021	Nb-95	3.49E+00	4.21E+00	1.39E+01	U
TF	06	547919006	6/16/2021	Ru-103	1.88E+00	2.97E+00	1.03E+01	U
TF	06	547919006	6/16/2021	Ru-106	-1.76E+01	3.35E+01	9.89E+01	U
TF	06	547919006	6/16/2021	Sb-124	6.08E+00	9.21E+00	3.34E+01	U
TF	06	547919006	6/16/2021	Sb-125	1.02E+01	9.22E+00	3.22E+01	U
TF	06	547919006	6/16/2021	Se-75	-2.26E+00	4.69E+00	1.49E+01	U
TF	06	547919006	6/16/2021	Th-228	-1.74E+00	6.41E+00	1.97E+01	U
TF	06	547919006	6/16/2021	Zn-65	-1.36E+01	1.04E+01	2.02E+01	U
TF	06	547919006	6/16/2021	Zr-95	-3.32E+00	5.14E+00	1.55E+01	U
TF	06	552744006	8/10/2021	Ac-228	-1.18E+01	1.85E+01	6.02E+01	U
TF	06	552744006	8/10/2021	Ag-108m	-2.38E+00	2.85E+00	8.86E+00	U
TF	06	552744006	8/10/2021	Ag-110m	6.25E-01	4.11E+00	1.35E+01	U
TF	06	552744006	8/10/2021	Ba-140	2.27E+01	1.58E+01	5.68E+01	U
TF	06	552744006	8/10/2021	Be-7	-2.47E+00	2.66E+01	8.93E+01	U
TF	06	552744006	8/10/2021	Ce-141	-2.32E+00	4.99E+00	1.60E+01	U
TF	06	552744006	8/10/2021	Ce-144	-3.75E+00	1.75E+01	5.74E+01	U
TF	06	552744006	8/10/2021	Co-57	2.35E+00	2.22E+00	7.57E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	06	552744006	8/10/2021	Co-58	-1.15E+00	4.17E+00	1.31E+01	U
TF	06	552744006	8/10/2021	Co-60	6.45E-01	3.92E+00	1.34E+01	U
TF	06	552744006	8/10/2021	Cr-51	3.22E+01	2.80E+01	9.32E+01	U
TF	06	552744006	8/10/2021	Cs-134	2.70E+00	3.66E+00	1.28E+01	U
TF	06	552744006	8/10/2021	Cs-137	1.51E+00	2.64E+00	9.30E+00	U
TF	06	552744006	8/10/2021	Fe-59	5.47E+00	7.45E+00	2.50E+01	U
TF	06	552744006	8/10/2021	I-131	2.14E+00	5.53E+00	1.77E+01	U
TF	06	552744006	8/10/2021	K-40	7.32E+02	1.10E+02	1.18E+02	
TF	06	552744006	8/10/2021	La-140	-9.00E+00	5.68E+00	9.39E+00	U
TF	06	552744006	8/10/2021	Mn-54	-6.22E+00	3.70E+00	5.36E+00	U
TF	06	552744006	8/10/2021	Nb-95	5.10E-01	4.05E+00	1.34E+01	U
TF	06	552744006	8/10/2021	Ru-103	5.18E+00	4.42E+00	8.99E+00	U
TF	06	552744006	8/10/2021	Ru-106	2.87E+00	1.97E+01	6.67E+01	U
TF	06	552744006	8/10/2021	Sb-124	6.80E+00	7.14E+00	2.79E+01	U
TF	06	552744006	8/10/2021	Sb-125	-9.05E+00	8.27E+00	2.47E+01	U
TF	06	552744006	8/10/2021	Se-75	7.63E-02	3.84E+00	1.23E+01	U
TF	06	552744006	8/10/2021	Th-228	2.45E+00	7.72E+00	1.95E+01	U
TF	06	552744006	8/10/2021	Zn-65	-4.26E+00	7.78E+00	2.43E+01	U
TF	06	552744006	8/10/2021	Zr-95	-3.38E+00	5.92E+00	1.77E+01	U
TF	06	549905006	7/14/2021	Ac-228	0.00E+00	2.60E+01	4.19E+01	U
TF	06	549905006	7/14/2021	Ag-108m	3.71E+00	2.45E+00	8.08E+00	U
TF	06	549905006	7/14/2021	Ag-110m	8.34E+00	4.87E+00	1.67E+01	U
TF	06	549905006	7/14/2021	Ba-140	3.80E+00	1.30E+01	4.39E+01	U
TF	06	549905006	7/14/2021	Be-7	1.95E+02	3.96E+01	5.93E+01	
TF	06	549905006	7/14/2021	Ce-141	-2.59E+00	3.40E+00	1.03E+01	U
TF	06	549905006	7/14/2021	Ce-144	-1.11E+00	1.25E+01	4.03E+01	U
TF	06	549905006	7/14/2021	Co-57	1.53E+00	2.31E+00	5.27E+00	U
TF	06	549905006	7/14/2021	Co-58	0.00E+00	2.73E+00	7.87E+00	U
TF	06	549905006	7/14/2021	Co-60	4.12E+00	4.22E+00	1.47E+01	U
TF	06	549905006	7/14/2021	Cr-51	-1.93E+01	2.25E+01	6.83E+01	U
TF	06	549905006	7/14/2021	Cs-134	4.82E+00	3.18E+00	1.04E+01	U
TF	06	549905006	7/14/2021	Cs-137	-3.63E-01	2.95E+00	9.48E+00	U
TF	06	549905006	7/14/2021	Fe-59	5.75E+00	6.70E+00	2.30E+01	U
TF	06	549905006	7/14/2021	I-131	1.62E+00	4.01E+00	1.33E+01	U
TF	06	549905006	7/14/2021	K-40	3.04E+03	2.18E+02	7.75E+01	
TF	06	549905006	7/14/2021	La-140	4.99E+00	3.73E+00	1.41E+01	U
TF	06	549905006	7/14/2021	Mn-54	-4.50E+00	3.00E+00	8.13E+00	U
TF	06	549905006	7/14/2021	Nb-95	-1.14E+00	2.80E+00	9.11E+00	U
TF	06	549905006	7/14/2021	Ru-103	4.95E-01	2.55E+00	7.69E+00	U
TF	06	549905006	7/14/2021	Ru-106	-1.26E+01	2.54E+01	7.94E+01	U
TF	06	549905006	7/14/2021	Sb-124	-1.31E+00	5.62E+00	1.81E+01	U
TF	06	549905006	7/14/2021	Sb-125	5.47E+00	6.92E+00	2.28E+01	U
TF	06	549905006	7/14/2021	Se-75	3.80E+00	3.23E+00	1.01E+01	U
TF	06	549905006	7/14/2021	Th-228	7.34E+00	8.28E+00	1.61E+01	U
TF	06	549905006	7/14/2021	Zn-65	-3.54E+00	7.30E+00	2.24E+01	U
TF	06	549905006	7/14/2021	Zr-95	1.91E+00	4.67E+00	1.62E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	08	545422001	5/19/2021	Ac-228	6.25E+00	1.73E+01	5.44E+01	U
TG	08	545422001	5/19/2021	Ag-108m	-3.66E+00	2.73E+00	8.07E+00	U
TG	08	545422001	5/19/2021	Ag-110m	2.40E+00	4.74E+00	1.64E+01	U
TG	08	545422001	5/19/2021	Ba-140	1.09E+01	1.87E+01	5.77E+01	U
TG	08	545422001	5/19/2021	Be-7	3.56E+02	6.95E+01	8.71E+01	
TG	08	545422001	5/19/2021	Ce-141	-2.92E+00	6.58E+00	1.59E+01	U
TG	08	545422001	5/19/2021	Ce-144	4.00E+01	1.88E+01	5.74E+01	U
TG	08	545422001	5/19/2021	Co-57	-1.02E+00	2.16E+00	6.90E+00	U
TG	08	545422001	5/19/2021	Co-58	-1.24E+00	3.72E+00	1.15E+01	U
TG	08	545422001	5/19/2021	Co-60	-4.94E+00	4.80E+00	1.21E+01	U
TG	08	545422001	5/19/2021	Cr-51	-4.38E+01	3.47E+01	8.34E+01	U
TG	08	545422001	5/19/2021	Cs-134	-1.91E+00	5.49E+00	1.38E+01	U
TG	08	545422001	5/19/2021	Cs-137	-2.64E+00	4.65E+00	1.29E+01	U
TG	08	545422001	5/19/2021	Fe-59	-7.04E+00	1.08E+01	2.63E+01	U
TG	08	545422001	5/19/2021	I-131	2.32E+00	5.27E+00	1.80E+01	U
TG	08	545422001	5/19/2021	K-40	5.03E+03	3.05E+02	9.96E+01	
TG	08	545422001	5/19/2021	La-140	-2.29E+00	4.81E+00	1.45E+01	U
TG	08	545422001	5/19/2021	Mn-54	2.39E+00	3.39E+00	1.11E+01	U
TG	08	545422001	5/19/2021	Nb-95	3.33E+00	3.56E+00	1.18E+01	U
TG	08	545422001	5/19/2021	Ru-103	1.08E+00	3.08E+00	1.03E+01	U
TG	08	545422001	5/19/2021	Ru-106	-3.87E+01	3.07E+01	8.78E+01	U
TG	08	545422001	5/19/2021	Sb-124	3.94E+00	5.64E+00	1.98E+01	U
TG	08	545422001	5/19/2021	Sb-125	-1.81E+00	7.71E+00	2.55E+01	U
TG	08	545422001	5/19/2021	Se-75	7.51E-01	3.85E+00	1.21E+01	U
TG	08	545422001	5/19/2021	Th-228	6.14E+00	9.49E+00	2.17E+01	U
TG	08	545422001	5/19/2021	Zn-65	8.31E+00	8.40E+00	2.89E+01	U
TG	08	545422001	5/19/2021	Zr-95	4.09E+00	6.65E+00	2.19E+01	U
TG	08	547919001	6/16/2021	Ac-228	-3.39E+00	3.17E+01	1.04E+02	U
TG	08	547919001	6/16/2021	Ag-108m	-1.79E+00	4.64E+00	1.34E+01	U
TG	08	547919001	6/16/2021	Ag-110m	-6.51E+00	7.54E+00	2.35E+01	U
TG	08	547919001	6/16/2021	Ba-140	3.38E+00	2.50E+01	8.28E+01	U
TG	08	547919001	6/16/2021	Be-7	3.35E+02	1.02E+02	1.49E+02	
TG	08	547919001	6/16/2021	Ce-141	-6.47E+00	8.07E+00	2.48E+01	U
TG	08	547919001	6/16/2021	Ce-144	3.16E+01	2.80E+01	9.20E+01	U
TG	08	547919001	6/16/2021	Co-57	7.10E+00	3.77E+00	1.20E+01	U
TG	08	547919001	6/16/2021	Co-58	1.02E+01	6.03E+00	2.01E+01	U
TG	08	547919001	6/16/2021	Co-60	-2.40E+00	5.74E+00	1.79E+01	U
TG	08	547919001	6/16/2021	Cr-51	-2.57E+01	4.45E+01	1.47E+02	U
TG	08	547919001	6/16/2021	Cs-134	2.05E+00	5.76E+00	1.88E+01	U
TG	08	547919001	6/16/2021	Cs-137	0.00E+00	1.22E+01	1.34E+01	U
TG	08	547919001	6/16/2021	Fe-59	-3.11E+00	1.27E+01	4.15E+01	U
TG	08	547919001	6/16/2021	I-131	-4.39E+00	9.49E+00	3.13E+01	U
TG	08	547919001	6/16/2021	K-40	4.20E+03	3.24E+02	1.92E+02	
TG	08	547919001	6/16/2021	La-140	-4.26E+00	8.77E+00	2.63E+01	U
TG	08	547919001	6/16/2021	Mn-54	6.46E-02	5.08E+00	1.62E+01	U
TG	08	547919001	6/16/2021	Nb-95	-3.53E+00	5.54E+00	1.66E+01	U
TG	08	547919001	6/16/2021	Ru-103	1.83E+00	5.37E+00	1.81E+01	U
TG	08	547919001	6/16/2021	Ru-106	-1.05E+01	4.94E+01	1.58E+02	U
TG	08	547919001	6/16/2021	Sb-124	-3.46E+00	1.40E+01	4.33E+01	U
TG	08	547919001	6/16/2021	Sb-125	4.79E+00	1.40E+01	4.75E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	08	547919001	6/16/2021	Se-75	4.84E+00	6.49E+00	2.07E+01	U
TG	08	547919001	6/16/2021	Th-228	3.63E+01	2.01E+01	3.76E+01	U
TG	08	547919001	6/16/2021	Zn-65	-9.19E+00	1.62E+01	4.45E+01	U
TG	08	547919001	6/16/2021	Zr-95	5.47E+00	9.16E+00	3.05E+01	U
TG	08	549905001	7/14/2021	Ac-228	8.17E+01	5.11E+01	1.37E+02	U
TG	08	549905001	7/14/2021	Ag-108m	1.80E+00	4.66E+00	1.63E+01	U
TG	08	549905001	7/14/2021	Ag-110m	-7.87E+00	9.38E+00	2.72E+01	U
TG	08	549905001	7/14/2021	Ba-140	2.92E+01	2.73E+01	9.02E+01	U
TG	08	549905001	7/14/2021	Be-7	2.24E+03	1.94E+02	1.50E+02	
TG	08	549905001	7/14/2021	Ce-141	-7.40E+00	7.94E+00	2.41E+01	U
TG	08	549905001	7/14/2021	Ce-144	-1.24E+01	3.09E+01	9.13E+01	U
TG	08	549905001	7/14/2021	Co-57	5.98E+00	4.43E+00	1.49E+01	U
TG	08	549905001	7/14/2021	Co-58	5.51E+00	6.31E+00	2.20E+01	U
TG	08	549905001	7/14/2021	Co-60	8.13E+00	5.92E+00	2.26E+01	U
TG	08	549905001	7/14/2021	Cr-51	1.04E+02	6.07E+01	1.97E+02	U
TG	08	549905001	7/14/2021	Cs-134	-8.54E+00	7.14E+00	1.95E+01	U
TG	08	549905001	7/14/2021	Cs-137	7.07E+00	6.12E+00	2.16E+01	U
TG	08	549905001	7/14/2021	Fe-59	-6.31E+00	1.15E+01	3.32E+01	U
TG	08	549905001	7/14/2021	I-131	-1.78E+01	1.07E+01	2.60E+01	U
TG	08	549905001	7/14/2021	K-40	2.17E+03	2.46E+02	2.31E+02	
TG	08	549905001	7/14/2021	La-140	-3.21E+00	9.79E+00	3.09E+01	U
TG	08	549905001	7/14/2021	Mn-54	-1.12E-01	6.25E+00	2.04E+01	U
TG	08	549905001	7/14/2021	Nb-95	-3.88E+00	6.63E+00	1.92E+01	U
TG	08	549905001	7/14/2021	Ru-103	-1.27E+00	5.46E+00	1.81E+01	U
TG	08	549905001	7/14/2021	Ru-106	1.21E+02	9.12E+01	1.27E+02	U
TG	08	549905001	7/14/2021	Sb-124	1.63E+01	1.52E+01	5.68E+01	U
TG	08	549905001	7/14/2021	Sb-125	-1.78E+01	1.71E+01	4.77E+01	U
TG	08	549905001	7/14/2021	Se-75	2.74E+00	6.72E+00	2.19E+01	U
TG	08	549905001	7/14/2021	Th-228	1.86E+01	1.57E+01	2.98E+01	U
TG	08	549905001	7/14/2021	Zn-65	1.08E+01	1.25E+01	4.37E+01	U
TG	08	549905001	7/14/2021	Zr-95	-1.17E+00	9.11E+00	2.62E+01	U
TG	08	552744001	8/10/2021	Ac-228	-9.70E+00	3.68E+01	1.31E+02	U
TG	08	552744001	8/10/2021	Ag-108m	1.50E+00	6.05E+00	1.95E+01	U
TG	08	552744001	8/10/2021	Ag-110m	5.22E+00	1.04E+01	3.51E+01	U
TG	08	552744001	8/10/2021	Ba-140	3.11E+00	3.64E+01	1.09E+02	U
TG	08	552744001	8/10/2021	Be-7	9.78E+02	1.43E+02	1.64E+02	
TG	08	552744001	8/10/2021	Ce-141	6.92E+00	1.02E+01	3.47E+01	U
TG	08	552744001	8/10/2021	Ce-144	-1.38E+01	3.82E+01	1.26E+02	U
TG	08	552744001	8/10/2021	Co-57	-5.49E+00	5.10E+00	1.60E+01	U
TG	08	552744001	8/10/2021	Co-58	-2.48E+00	6.72E+00	2.13E+01	U
TG	08	552744001	8/10/2021	Co-60	-2.55E+00	7.03E+00	2.25E+01	U
TG	08	552744001	8/10/2021	Cr-51	-3.50E+01	6.20E+01	1.92E+02	U
TG	08	552744001	8/10/2021	Cs-134	-2.48E+00	8.26E+00	2.64E+01	U
TG	08	552744001	8/10/2021	Cs-137	-6.57E+00	7.63E+00	2.33E+01	U
TG	08	552744001	8/10/2021	Fe-59	-1.24E+00	1.48E+01	4.70E+01	U
TG	08	552744001	8/10/2021	I-131	-8.79E+00	1.14E+01	3.42E+01	U
TG	08	552744001	8/10/2021	K-40	5.83E+03	4.88E+02	2.25E+02	
TG	08	552744001	8/10/2021	La-140	-1.63E+01	1.22E+01	3.14E+01	U
TG	08	552744001	8/10/2021	Mn-54	5.40E-01	6.80E+00	2.24E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	08	552744001	8/10/2021	Nb-95	-5.04E+00	7.25E+00	2.23E+01	U
TG	08	552744001	8/10/2021	Ru-103	-1.40E-01	6.14E+00	2.07E+01	U
TG	08	552744001	8/10/2021	Ru-106	-7.56E+01	7.03E+01	2.11E+02	U
TG	08	552744001	8/10/2021	Sb-124	-6.80E+00	1.13E+01	3.21E+01	U
TG	08	552744001	8/10/2021	Sb-125	5.16E+01	2.18E+01	6.78E+01	U
TG	08	552744001	8/10/2021	Se-75	-1.39E+01	9.53E+00	2.70E+01	U
TG	08	552744001	8/10/2021	Th-228	8.76E-01	2.06E+01	4.69E+01	U
TG	08	552744001	8/10/2021	Zn-65	7.13E+00	2.44E+01	6.54E+01	U
TG	08	552744001	8/10/2021	Zr-95	8.97E+00	1.18E+01	4.06E+01	U
TG	08	555715001	9/8/2021	Ac-228	3.42E+01	5.94E+01	1.46E+02	U
TG	08	555715001	9/8/2021	Ag-108m	-3.94E+00	7.43E+00	2.35E+01	U
TG	08	555715001	9/8/2021	Ag-110m	4.04E+00	1.14E+01	3.90E+01	U
TG	08	555715001	9/8/2021	Ba-140	-5.61E+01	4.71E+01	1.34E+02	U
TG	08	555715001	9/8/2021	Be-7	1.72E+03	2.14E+02	2.57E+02	
TG	08	555715001	9/8/2021	Ce-141	-1.85E+01	1.53E+01	3.91E+01	U
TG	08	555715001	9/8/2021	Ce-144	6.15E+01	5.01E+01	1.63E+02	U
TG	08	555715001	9/8/2021	Co-57	6.82E-02	5.64E+00	1.83E+01	U
TG	08	555715001	9/8/2021	Co-58	3.51E+00	1.03E+01	3.15E+01	U
TG	08	555715001	9/8/2021	Co-60	1.49E+01	1.09E+01	3.79E+01	U
TG	08	555715001	9/8/2021	Cr-51	-5.13E+01	7.37E+01	2.36E+02	U
TG	08	555715001	9/8/2021	Cs-134	2.41E+01	1.57E+01	3.45E+01	U
TG	08	555715001	9/8/2021	Cs-137	2.67E+01	1.14E+01	3.62E+01	U
TG	08	555715001	9/8/2021	Fe-59	-1.41E+00	2.09E+01	6.79E+01	U
TG	08	555715001	9/8/2021	I-131	-3.23E+01	1.69E+01	4.48E+01	U
TG	08	555715001	9/8/2021	K-40	4.37E+03	3.88E+02	2.29E+02	
TG	08	555715001	9/8/2021	La-140	-7.25E+00	1.47E+01	4.62E+01	U
TG	08	555715001	9/8/2021	Mn-54	3.41E-02	7.16E+00	2.12E+01	U
TG	08	555715001	9/8/2021	Nb-95	-8.99E+00	1.13E+01	2.94E+01	U
TG	08	555715001	9/8/2021	Ru-103	4.88E+00	9.15E+00	3.05E+01	U
TG	08	555715001	9/8/2021	Ru-106	-4.69E+01	7.92E+01	2.39E+02	U
TG	08	555715001	9/8/2021	Sb-124	2.44E+01	1.63E+01	6.29E+01	U
TG	08	555715001	9/8/2021	Sb-125	-3.19E+00	2.18E+01	7.13E+01	U
TG	08	555715001	9/8/2021	Se-75	8.01E+00	1.03E+01	3.57E+01	U
TG	08	555715001	9/8/2021	Th-228	1.87E+01	2.09E+01	5.77E+01	U
TG	08	555715001	9/8/2021	Zn-65	-2.19E+01	2.17E+01	6.28E+01	U
TG	08	555715001	9/8/2021	Zr-95	1.30E+01	1.49E+01	5.24E+01	U
TG	09	545422002	5/19/2021	Ac-228	-1.18E+01	1.82E+01	5.40E+01	U
TG	09	545422002	5/19/2021	Ag-108m	-2.75E+00	3.11E+00	9.57E+00	U
TG	09	545422002	5/19/2021	Ag-110m	-1.40E+00	5.52E+00	1.81E+01	U
TG	09	545422002	5/19/2021	Ba-140	-1.34E+01	1.73E+01	5.24E+01	U
TG	09	545422002	5/19/2021	Be-7	3.87E+02	5.55E+01	9.85E+01	
TG	09	545422002	5/19/2021	Ce-141	2.03E+00	5.67E+00	1.83E+01	U
TG	09	545422002	5/19/2021	Ce-144	7.83E+00	2.12E+01	6.86E+01	U
TG	09	545422002	5/19/2021	Co-57	-1.35E+00	2.67E+00	8.43E+00	U
TG	09	545422002	5/19/2021	Co-58	3.30E-02	3.29E+00	1.11E+01	U
TG	09	545422002	5/19/2021	Co-60	-5.74E+00	4.72E+00	1.30E+01	U
TG	09	545422002	5/19/2021	Cr-51	-3.63E+01	3.18E+01	9.82E+01	U
TG	09	545422002	5/19/2021	Cs-134	-5.04E+00	4.23E+00	1.21E+01	U
TG	09	545422002	5/19/2021	Cs-137	2.06E+00	4.32E+00	1.40E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	09	545422002	5/19/2021	Fe-59	-1.25E+01	1.02E+01	2.95E+01	U
TG	09	545422002	5/19/2021	I-131	1.62E+01	1.06E+01	2.00E+01	U
TG	09	545422002	5/19/2021	K-40	4.97E+03	3.04E+02	1.01E+02	
TG	09	545422002	5/19/2021	La-140	-5.14E+00	5.41E+00	1.57E+01	U
TG	09	545422002	5/19/2021	Mn-54	-1.28E+00	3.58E+00	1.17E+01	U
TG	09	545422002	5/19/2021	Nb-95	-8.65E-01	3.53E+00	1.17E+01	U
TG	09	545422002	5/19/2021	Ru-103	1.57E+00	3.66E+00	1.21E+01	U
TG	09	545422002	5/19/2021	Ru-106	5.18E+01	3.39E+01	1.11E+02	U
TG	09	545422002	5/19/2021	Sb-124	-8.68E+00	9.49E+00	2.80E+01	U
TG	09	545422002	5/19/2021	Sb-125	-4.92E+00	9.82E+00	3.14E+01	U
TG	09	545422002	5/19/2021	Se-75	1.19E+01	6.39E+00	1.56E+01	U
TG	09	545422002	5/19/2021	Th-228	-9.07E+00	8.43E+00	2.39E+01	U
TG	09	545422002	5/19/2021	Zn-65	-4.45E+00	8.91E+00	2.79E+01	U
TG	09	545422002	5/19/2021	Zr-95	1.27E+01	9.18E+00	2.52E+01	U
TG	09	547919002	6/16/2021	Ac-228	2.13E+01	2.30E+01	7.36E+01	U
TG	09	547919002	6/16/2021	Ag-108m	-8.46E+00	4.37E+00	1.14E+01	U
TG	09	547919002	6/16/2021	Ag-110m	-9.70E+00	7.49E+00	1.81E+01	U
TG	09	547919002	6/16/2021	Ba-140	4.53E+01	2.26E+01	7.40E+01	U
TG	09	547919002	6/16/2021	Be-7	7.38E+02	8.57E+01	1.22E+02	
TG	09	547919002	6/16/2021	Ce-141	-6.88E+00	8.05E+00	2.19E+01	U
TG	09	547919002	6/16/2021	Ce-144	-3.94E+00	2.38E+01	7.60E+01	U
TG	09	547919002	6/16/2021	Co-57	2.80E+00	2.96E+00	9.71E+00	U
TG	09	547919002	6/16/2021	Co-58	-7.36E+00	4.89E+00	1.39E+01	U
TG	09	547919002	6/16/2021	Co-60	4.99E+00	4.74E+00	1.64E+01	U
TG	09	547919002	6/16/2021	Cr-51	1.96E+01	3.93E+01	1.34E+02	U
TG	09	547919002	6/16/2021	Cs-134	-5.40E-01	5.52E+00	1.70E+01	U
TG	09	547919002	6/16/2021	Cs-137	3.30E+00	4.45E+00	1.47E+01	U
TG	09	547919002	6/16/2021	Fe-59	-3.57E-02	8.92E+00	2.92E+01	U
TG	09	547919002	6/16/2021	I-131	4.28E+00	7.20E+00	2.22E+01	U
TG	09	547919002	6/16/2021	K-40	4.33E+03	2.96E+02	1.44E+02	
TG	09	547919002	6/16/2021	La-140	4.65E+00	7.08E+00	2.50E+01	U
TG	09	547919002	6/16/2021	Mn-54	2.67E+00	4.31E+00	1.49E+01	U
TG	09	547919002	6/16/2021	Nb-95	7.25E+00	4.71E+00	1.63E+01	U
TG	09	547919002	6/16/2021	Ru-103	-6.51E+00	4.44E+00	1.22E+01	U
TG	09	547919002	6/16/2021	Ru-106	4.54E+01	4.18E+01	1.39E+02	U
TG	09	547919002	6/16/2021	Sb-124	-6.31E+00	9.91E+00	3.00E+01	U
TG	09	547919002	6/16/2021	Sb-125	-1.15E+01	1.14E+01	3.45E+01	U
TG	09	547919002	6/16/2021	Se-75	-2.53E+00	5.46E+00	1.82E+01	U
TG	09	547919002	6/16/2021	Th-228	-1.01E+01	9.06E+00	2.76E+01	U
TG	09	547919002	6/16/2021	Zn-65	-1.41E+01	1.20E+01	3.45E+01	U
TG	09	547919002	6/16/2021	Zr-95	-1.04E+01	9.10E+00	2.32E+01	U
TG	09	549905002	7/14/2021	Ac-228	-2.08E+01	2.47E+01	7.66E+01	U
TG	09	549905002	7/14/2021	Ag-108m	-5.31E+00	4.19E+00	1.21E+01	U
TG	09	549905002	7/14/2021	Ag-110m	4.01E+00	6.74E+00	2.30E+01	U
TG	09	549905002	7/14/2021	Ba-140	-7.87E-01	2.36E+01	7.82E+01	U
TG	09	549905002	7/14/2021	Be-7	1.35E+03	1.29E+02	1.21E+02	
TG	09	549905002	7/14/2021	Ce-141	-1.02E+01	8.91E+00	2.41E+01	U
TG	09	549905002	7/14/2021	Ce-144	-2.79E+01	2.89E+01	8.57E+01	U
TG	09	549905002	7/14/2021	Co-57	1.85E-01	3.35E+00	1.09E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	09	549905002	7/14/2021	Co-58	1.60E+00	3.67E+00	1.26E+01	U
TG	09	549905002	7/14/2021	Co-60	3.04E+00	4.95E+00	1.78E+01	U
TG	09	549905002	7/14/2021	Cr-51	2.47E+01	4.00E+01	1.41E+02	U
TG	09	549905002	7/14/2021	Cs-134	1.35E+01	9.26E+00	1.72E+01	U
TG	09	549905002	7/14/2021	Cs-137	-3.73E+00	5.35E+00	1.62E+01	U
TG	09	549905002	7/14/2021	Fe-59	1.48E+00	9.72E+00	3.15E+01	U
TG	09	549905002	7/14/2021	I-131	-1.12E+01	9.29E+00	2.62E+01	U
TG	09	549905002	7/14/2021	K-40	2.44E+03	2.41E+02	1.66E+02	
TG	09	549905002	7/14/2021	La-140	1.70E+00	8.78E+00	2.99E+01	U
TG	09	549905002	7/14/2021	Mn-54	2.39E+00	4.29E+00	1.47E+01	U
TG	09	549905002	7/14/2021	Nb-95	-4.04E+00	5.11E+00	1.49E+01	U
TG	09	549905002	7/14/2021	Ru-103	-5.65E+00	4.98E+00	1.45E+01	U
TG	09	549905002	7/14/2021	Ru-106	-7.03E+01	5.42E+01	1.26E+02	U
TG	09	549905002	7/14/2021	Sb-124	1.20E+01	1.09E+01	4.15E+01	U
TG	09	549905002	7/14/2021	Sb-125	9.34E+00	1.16E+01	4.06E+01	U
TG	09	549905002	7/14/2021	Se-75	-6.86E+00	6.90E+00	1.95E+01	U
TG	09	549905002	7/14/2021	Th-228	-1.59E+01	1.09E+01	3.19E+01	U
TG	09	549905002	7/14/2021	Zn-65	-2.65E+00	1.27E+01	3.87E+01	U
TG	09	549905002	7/14/2021	Zr-95	2.29E+00	8.30E+00	2.52E+01	U
TG	09	552744002	8/10/2021	Ac-228	4.03E+01	3.58E+01	1.17E+02	U
TG	09	552744002	8/10/2021	Ag-108m	-6.02E+00	6.22E+00	1.61E+01	U
TG	09	552744002	8/10/2021	Ag-110m	-6.30E+00	8.05E+00	2.40E+01	U
TG	09	552744002	8/10/2021	Ba-140	1.54E+01	3.29E+01	1.00E+02	U
TG	09	552744002	8/10/2021	Be-7	7.05E+02	1.17E+02	1.63E+02	
TG	09	552744002	8/10/2021	Ce-141	4.24E+00	8.93E+00	2.88E+01	U
TG	09	552744002	8/10/2021	Ce-144	1.03E+01	3.13E+01	1.01E+02	U
TG	09	552744002	8/10/2021	Co-57	2.38E+00	4.27E+00	1.40E+01	U
TG	09	552744002	8/10/2021	Co-58	9.78E+00	6.43E+00	2.23E+01	U
TG	09	552744002	8/10/2021	Co-60	6.70E+00	8.27E+00	2.89E+01	U
TG	09	552744002	8/10/2021	Cr-51	9.31E-01	5.37E+01	1.68E+02	U
TG	09	552744002	8/10/2021	Cs-134	1.02E+01	7.48E+00	2.58E+01	U
TG	09	552744002	8/10/2021	Cs-137	-1.25E+01	7.23E+00	1.94E+01	U
TG	09	552744002	8/10/2021	Fe-59	-9.43E-01	1.28E+01	4.09E+01	U
TG	09	552744002	8/10/2021	I-131	5.95E+00	9.53E+00	3.21E+01	U
TG	09	552744002	8/10/2021	K-40	4.38E+03	3.52E+02	1.71E+02	
TG	09	552744002	8/10/2021	La-140	-2.06E+01	1.55E+01	3.26E+01	U
TG	09	552744002	8/10/2021	Mn-54	-3.80E+00	6.39E+00	1.99E+01	U
TG	09	552744002	8/10/2021	Nb-95	-6.69E+00	7.32E+00	2.08E+01	U
TG	09	552744002	8/10/2021	Ru-103	2.85E+00	6.42E+00	2.11E+01	U
TG	09	552744002	8/10/2021	Ru-106	-9.90E+01	5.77E+01	1.56E+02	U
TG	09	552744002	8/10/2021	Sb-124	8.60E+00	1.27E+01	4.51E+01	U
TG	09	552744002	8/10/2021	Sb-125	-6.76E+00	1.80E+01	5.72E+01	U
TG	09	552744002	8/10/2021	Se-75	-1.33E+00	7.29E+00	2.44E+01	U
TG	09	552744002	8/10/2021	Th-228	0.00E+00	2.46E+01	4.25E+01	U
TG	09	552744002	8/10/2021	Zn-65	5.19E+00	1.87E+01	5.20E+01	U
TG	09	552744002	8/10/2021	Zr-95	-9.11E+00	1.24E+01	3.85E+01	U
TG	09	555715002	9/8/2021	Ac-228	4.67E+01	3.13E+01	1.08E+02	U
TG	09	555715002	9/8/2021	Ag-108m	-3.07E+00	6.86E+00	2.02E+01	U
TG	09	555715002	9/8/2021	Ag-110m	1.15E+01	1.05E+01	3.65E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	09	555715002	9/8/2021	Ba-140	1.04E+01	3.04E+01	9.98E+01	U
TG	09	555715002	9/8/2021	Be-7	9.31E+02	1.32E+02	1.68E+02	
TG	09	555715002	9/8/2021	Ce-141	2.29E+00	9.20E+00	2.67E+01	U
TG	09	555715002	9/8/2021	Ce-144	2.12E+01	3.14E+01	1.00E+02	U
TG	09	555715002	9/8/2021	Co-57	1.90E+00	3.87E+00	1.24E+01	U
TG	09	555715002	9/8/2021	Co-58	2.02E+01	8.77E+00	2.92E+01	U
TG	09	555715002	9/8/2021	Co-60	5.13E+00	7.17E+00	2.48E+01	U
TG	09	555715002	9/8/2021	Cr-51	2.22E+01	4.90E+01	1.66E+02	U
TG	09	555715002	9/8/2021	Cs-134	1.08E+01	9.18E+00	3.18E+01	U
TG	09	555715002	9/8/2021	Cs-137	-3.44E+00	7.83E+00	2.58E+01	U
TG	09	555715002	9/8/2021	Fe-59	3.23E+01	1.73E+01	5.96E+01	U
TG	09	555715002	9/8/2021	I-131	7.27E+00	1.05E+01	3.54E+01	U
TG	09	555715002	9/8/2021	K-40	6.06E+03	4.54E+02	2.91E+02	
TG	09	555715002	9/8/2021	La-140	1.69E+01	9.75E+00	3.76E+01	U
TG	09	555715002	9/8/2021	Mn-54	7.84E+00	7.41E+00	2.58E+01	U
TG	09	555715002	9/8/2021	Nb-95	8.98E+00	7.89E+00	2.75E+01	U
TG	09	555715002	9/8/2021	Ru-103	1.84E+00	5.82E+00	1.92E+01	U
TG	09	555715002	9/8/2021	Ru-106	1.24E+02	7.60E+01	2.31E+02	U
TG	09	555715002	9/8/2021	Sb-124	6.28E+00	1.68E+01	5.87E+01	U
TG	09	555715002	9/8/2021	Sb-125	6.54E+00	1.67E+01	5.56E+01	U
TG	09	555715002	9/8/2021	Se-75	9.44E+00	7.17E+00	2.43E+01	U
TG	09	555715002	9/8/2021	Th-228	1.62E+01	1.87E+01	4.11E+01	U
TG	09	555715002	9/8/2021	Zn-65	1.50E+01	1.82E+01	6.24E+01	U
TG	09	555715002	9/8/2021	Zr-95	-6.45E+00	1.19E+01	3.81E+01	U
TG	10	545422003	5/19/2021	Ac-228	2.92E+01	2.95E+01	6.27E+01	U
TG	10	545422003	5/19/2021	Ag-108m	1.50E+00	2.82E+00	9.48E+00	U
TG	10	545422003	5/19/2021	Ag-110m	-1.90E+00	4.67E+00	1.53E+01	U
TG	10	545422003	5/19/2021	Ba-140	1.41E+01	1.70E+01	5.69E+01	U
TG	10	545422003	5/19/2021	Be-7	4.16E+02	6.98E+01	9.32E+01	
TG	10	545422003	5/19/2021	Ce-141	1.24E+01	9.91E+00	1.59E+01	U
TG	10	545422003	5/19/2021	Ce-144	2.43E+00	2.03E+01	6.38E+01	U
TG	10	545422003	5/19/2021	Co-57	-5.32E-01	2.60E+00	8.06E+00	U
TG	10	545422003	5/19/2021	Co-58	-4.62E-01	3.82E+00	1.20E+01	U
TG	10	545422003	5/19/2021	Co-60	2.75E+00	4.69E+00	1.60E+01	U
TG	10	545422003	5/19/2021	Cr-51	-5.14E+00	2.93E+01	9.72E+01	U
TG	10	545422003	5/19/2021	Cs-134	-9.88E-01	3.99E+00	1.24E+01	U
TG	10	545422003	5/19/2021	Cs-137	4.77E-01	3.50E+00	1.13E+01	U
TG	10	545422003	5/19/2021	Fe-59	9.31E-01	8.33E+00	2.80E+01	U
TG	10	545422003	5/19/2021	I-131	-5.84E+00	6.25E+00	1.94E+01	U
TG	10	545422003	5/19/2021	K-40	4.51E+03	3.03E+02	1.37E+02	
TG	10	545422003	5/19/2021	La-140	1.12E+01	6.36E+00	2.26E+01	U
TG	10	545422003	5/19/2021	Mn-54	3.77E+00	3.77E+00	1.32E+01	U
TG	10	545422003	5/19/2021	Nb-95	-7.20E+00	5.23E+00	1.36E+01	U
TG	10	545422003	5/19/2021	Ru-103	-4.46E+00	3.54E+00	1.02E+01	U
TG	10	545422003	5/19/2021	Ru-106	2.97E+00	3.43E+01	1.11E+02	U
TG	10	545422003	5/19/2021	Sb-124	1.71E+01	1.07E+01	3.51E+01	U
TG	10	545422003	5/19/2021	Sb-125	3.44E-01	8.90E+00	2.94E+01	U
TG	10	545422003	5/19/2021	Se-75	-6.26E+00	4.09E+00	1.20E+01	U
TG	10	545422003	5/19/2021	Th-228	1.10E+01	1.02E+01	2.34E+01	U
TG	10	545422003	5/19/2021	Zn-65	-7.54E+00	1.13E+01	3.37E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	10	545422003	5/19/2021	Zr-95	2.03E+00	7.11E+00	2.30E+01	U
TG	10	547919003	6/16/2021	Ac-228	3.92E+01	2.67E+01	7.07E+01	U
TG	10	547919003	6/16/2021	Ag-108m	-6.49E+00	4.16E+00	1.14E+01	U
TG	10	547919003	6/16/2021	Ag-110m	6.28E+00	5.96E+00	2.04E+01	U
TG	10	547919003	6/16/2021	Ba-140	1.07E+01	2.35E+01	7.63E+01	U
TG	10	547919003	6/16/2021	Be-7	9.36E+02	9.85E+01	1.23E+02	
TG	10	547919003	6/16/2021	Ce-141	-3.78E+00	7.03E+00	2.17E+01	U
TG	10	547919003	6/16/2021	Ce-144	-1.50E+01	2.48E+01	7.66E+01	U
TG	10	547919003	6/16/2021	Co-57	-1.26E+00	3.15E+00	9.93E+00	U
TG	10	547919003	6/16/2021	Co-58	4.38E+00	5.15E+00	1.75E+01	U
TG	10	547919003	6/16/2021	Co-60	-4.02E-01	6.10E+00	2.03E+01	U
TG	10	547919003	6/16/2021	Cr-51	1.05E+01	4.04E+01	1.36E+02	U
TG	10	547919003	6/16/2021	Cs-134	3.21E+00	5.93E+00	2.00E+01	U
TG	10	547919003	6/16/2021	Cs-137	0.00E+00	6.28E+00	1.52E+01	U
TG	10	547919003	6/16/2021	Fe-59	-3.96E+00	9.88E+00	3.05E+01	U
TG	10	547919003	6/16/2021	I-131	6.83E+00	7.93E+00	2.66E+01	U
TG	10	547919003	6/16/2021	K-40	2.94E+03	2.47E+02	1.61E+02	
TG	10	547919003	6/16/2021	La-140	-3.25E+00	8.26E+00	2.59E+01	U
TG	10	547919003	6/16/2021	Mn-54	-3.46E+00	4.50E+00	1.38E+01	U
TG	10	547919003	6/16/2021	Nb-95	-2.63E+00	5.73E+00	1.60E+01	U
TG	10	547919003	6/16/2021	Ru-103	-3.39E+00	4.46E+00	1.34E+01	U
TG	10	547919003	6/16/2021	Ru-106	-3.49E-01	4.33E+01	1.46E+02	U
TG	10	547919003	6/16/2021	Sb-124	-3.45E+00	1.05E+01	3.28E+01	U
TG	10	547919003	6/16/2021	Sb-125	-6.03E+00	1.19E+01	3.74E+01	U
TG	10	547919003	6/16/2021	Se-75	3.95E+00	5.77E+00	1.97E+01	U
TG	10	547919003	6/16/2021	Th-228	1.94E+01	1.51E+01	3.05E+01	U
TG	10	547919003	6/16/2021	Zn-65	-3.36E+00	1.23E+01	3.31E+01	U
TG	10	547919003	6/16/2021	Zr-95	-6.53E+00	8.48E+00	2.64E+01	U
TG	10	549905003	7/14/2021	Ac-228	-6.08E+01	5.71E+01	1.46E+02	U
TG	10	549905003	7/14/2021	Ag-108m	1.69E-01	8.88E+00	2.84E+01	U
TG	10	549905003	7/14/2021	Ag-110m	-1.64E+00	1.34E+01	4.32E+01	U
TG	10	549905003	7/14/2021	Ba-140	-1.83E+01	3.50E+01	1.12E+02	U
TG	10	549905003	7/14/2021	Be-7	2.26E+03	2.66E+02	2.25E+02	
TG	10	549905003	7/14/2021	Ce-141	6.27E+00	1.40E+01	4.39E+01	U
TG	10	549905003	7/14/2021	Ce-144	-5.90E+01	5.12E+01	1.59E+02	U
TG	10	549905003	7/14/2021	Co-57	1.43E+01	7.22E+00	2.41E+01	U
TG	10	549905003	7/14/2021	Co-58	9.20E+00	1.01E+01	3.53E+01	U
TG	10	549905003	7/14/2021	Co-60	4.45E+00	1.25E+01	4.31E+01	U
TG	10	549905003	7/14/2021	Cr-51	6.88E+00	8.86E+01	2.60E+02	U
TG	10	549905003	7/14/2021	Cs-134	-1.18E+01	1.26E+01	3.52E+01	U
TG	10	549905003	7/14/2021	Cs-137	2.25E+01	1.14E+01	3.93E+01	U
TG	10	549905003	7/14/2021	Fe-59	-3.83E+01	2.42E+01	5.73E+01	U
TG	10	549905003	7/14/2021	I-131	-6.69E+00	1.54E+01	4.82E+01	U
TG	10	549905003	7/14/2021	K-40	2.09E+03	2.92E+02	2.76E+02	
TG	10	549905003	7/14/2021	La-140	-4.21E+00	1.63E+01	5.16E+01	U
TG	10	549905003	7/14/2021	Mn-54	2.53E+01	1.09E+01	3.75E+01	U
TG	10	549905003	7/14/2021	Nb-95	5.49E+00	1.07E+01	3.64E+01	U
TG	10	549905003	7/14/2021	Ru-103	-4.84E+00	9.48E+00	2.85E+01	U
TG	10	549905003	7/14/2021	Ru-106	-9.87E+01	8.07E+01	2.30E+02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	10	549905003	7/14/2021	Sb-124	2.15E+01	1.97E+01	7.50E+01	U
TG	10	549905003	7/14/2021	Sb-125	1.40E+01	2.45E+01	8.13E+01	U
TG	10	549905003	7/14/2021	Se-75	5.75E+00	1.14E+01	3.83E+01	U
TG	10	549905003	7/14/2021	Th-228	-2.79E+01	2.05E+01	6.17E+01	U
TG	10	549905003	7/14/2021	Zn-65	6.24E+00	2.59E+01	8.50E+01	U
TG	10	549905003	7/14/2021	Zr-95	-3.75E+00	1.69E+01	5.46E+01	U
TG	10	552744003	8/10/2021	Ac-228	1.69E+01	3.91E+01	1.41E+02	U
TG	10	552744003	8/10/2021	Ag-108m	2.73E+00	5.91E+00	2.01E+01	U
TG	10	552744003	8/10/2021	Ag-110m	5.47E-01	8.82E+00	3.01E+01	U
TG	10	552744003	8/10/2021	Ba-140	1.34E+00	3.85E+01	1.26E+02	U
TG	10	552744003	8/10/2021	Be-7	1.26E+03	1.70E+02	2.14E+02	
TG	10	552744003	8/10/2021	Ce-141	-1.49E+01	1.30E+01	3.69E+01	U
TG	10	552744003	8/10/2021	Ce-144	1.18E+01	4.36E+01	1.39E+02	U
TG	10	552744003	8/10/2021	Co-57	-3.95E+00	5.54E+00	1.65E+01	U
TG	10	552744003	8/10/2021	Co-58	6.55E+00	8.31E+00	2.80E+01	U
TG	10	552744003	8/10/2021	Co-60	3.39E+00	9.74E+00	3.32E+01	U
TG	10	552744003	8/10/2021	Cr-51	5.73E+01	6.59E+01	2.27E+02	U
TG	10	552744003	8/10/2021	Cs-134	-6.85E+00	9.10E+00	2.62E+01	U
TG	10	552744003	8/10/2021	Cs-137	1.80E+00	9.02E+00	2.95E+01	U
TG	10	552744003	8/10/2021	Fe-59	-2.22E+01	2.02E+01	5.88E+01	U
TG	10	552744003	8/10/2021	I-131	-8.38E+00	1.19E+01	3.73E+01	U
TG	10	552744003	8/10/2021	K-40	6.05E+03	5.38E+02	3.14E+02	
TG	10	552744003	8/10/2021	La-140	9.39E+00	1.09E+01	3.96E+01	U
TG	10	552744003	8/10/2021	Mn-54	2.55E+00	8.29E+00	2.70E+01	U
TG	10	552744003	8/10/2021	Nb-95	-1.23E+01	9.37E+00	2.56E+01	U
TG	10	552744003	8/10/2021	Ru-103	-1.51E+01	7.31E+00	1.59E+01	U
TG	10	552744003	8/10/2021	Ru-106	-1.40E+02	8.04E+01	1.92E+02	U
TG	10	552744003	8/10/2021	Sb-124	4.87E+00	1.29E+01	4.53E+01	U
TG	10	552744003	8/10/2021	Sb-125	-1.92E+00	1.78E+01	5.82E+01	U
TG	10	552744003	8/10/2021	Se-75	1.19E+01	9.63E+00	3.32E+01	U
TG	10	552744003	8/10/2021	Th-228	2.11E+01	2.21E+01	5.45E+01	U
TG	10	552744003	8/10/2021	Zn-65	4.58E+01	2.54E+01	5.47E+01	U
TG	10	552744003	8/10/2021	Zr-95	1.02E+01	1.30E+01	4.42E+01	U
TG	10	555715003	9/8/2021	Ac-228	6.91E+00	6.08E+01	1.25E+02	U
TG	10	555715003	9/8/2021	Ag-108m	-4.24E+00	6.02E+00	1.81E+01	U
TG	10	555715003	9/8/2021	Ag-110m	-3.00E+00	1.01E+01	3.06E+01	U
TG	10	555715003	9/8/2021	Ba-140	3.02E+01	3.13E+01	1.08E+02	U
TG	10	555715003	9/8/2021	Be-7	1.28E+03	1.48E+02	1.51E+02	
TG	10	555715003	9/8/2021	Ce-141	7.63E+00	9.76E+00	3.29E+01	U
TG	10	555715003	9/8/2021	Ce-144	-1.71E+01	3.31E+01	1.09E+02	U
TG	10	555715003	9/8/2021	Co-57	1.02E+00	4.21E+00	1.43E+01	U
TG	10	555715003	9/8/2021	Co-58	-1.95E+00	5.82E+00	1.85E+01	U
TG	10	555715003	9/8/2021	Co-60	5.84E+00	7.66E+00	2.67E+01	U
TG	10	555715003	9/8/2021	Cr-51	-3.63E+01	6.77E+01	1.84E+02	U
TG	10	555715003	9/8/2021	Cs-134	-1.02E+00	7.79E+00	2.54E+01	U
TG	10	555715003	9/8/2021	Cs-137	1.42E+00	6.46E+00	2.17E+01	U
TG	10	555715003	9/8/2021	Fe-59	-1.33E+01	1.57E+01	4.03E+01	U
TG	10	555715003	9/8/2021	I-131	-8.29E-02	1.00E+01	3.20E+01	U
TG	10	555715003	9/8/2021	K-40	5.32E+03	3.82E+02	1.68E+02	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	10	555715003	9/8/2021	La-140	9.84E-01	9.83E+00	3.28E+01	U
TG	10	555715003	9/8/2021	Mn-54	-4.42E+00	7.61E+00	2.04E+01	U
TG	10	555715003	9/8/2021	Nb-95	1.41E+01	7.63E+00	2.53E+01	U
TG	10	555715003	9/8/2021	Ru-103	-6.21E+00	5.70E+00	1.75E+01	U
TG	10	555715003	9/8/2021	Ru-106	-2.40E+01	5.38E+01	1.74E+02	U
TG	10	555715003	9/8/2021	Sb-124	-1.37E+01	1.11E+01	2.68E+01	U
TG	10	555715003	9/8/2021	Sb-125	-1.75E+01	1.83E+01	5.36E+01	U
TG	10	555715003	9/8/2021	Se-75	9.49E+00	8.68E+00	2.60E+01	U
TG	10	555715003	9/8/2021	Th-228	1.78E+01	2.22E+01	4.15E+01	U
TG	10	555715003	9/8/2021	Zn-65	1.20E-01	1.50E+01	4.81E+01	U
TG	10	555715003	9/8/2021	Zr-95	-2.71E+00	1.07E+01	3.44E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	532371001	1/13/2021	Ac-228	0.00E+00	5.46E+00	8.66E+00	U
TM	15	532371001	1/13/2021	Ag-108m	5.01E-01	4.61E-01	1.55E+00	U
TM	15	532371001	1/13/2021	Ag-110m	9.67E-01	1.26E+00	2.41E+00	U
TM	15	532371001	1/13/2021	Ba-140	-5.12E-01	2.41E+00	7.99E+00	U
TM	15	532371001	1/13/2021	Be-7	-2.12E+00	6.58E+00	1.46E+01	U
TM	15	532371001	1/13/2021	Bi-214	2.85E-01	2.13E+00	3.29E+00	U
TM	15	532371001	1/13/2021	Ce-141	1.09E+00	1.05E+00	3.07E+00	U
TM	15	532371001	1/13/2021	Ce-144	-3.80E+00	3.93E+00	1.21E+01	U
TM	15	532371001	1/13/2021	Co-57	5.62E-01	5.09E-01	1.62E+00	U
TM	15	532371001	1/13/2021	Co-58	4.46E-01	5.73E-01	1.70E+00	U
TM	15	532371001	1/13/2021	Co-60	3.44E-01	5.56E-01	1.91E+00	U
TM	15	532371001	1/13/2021	Cr-51	-3.58E+00	4.80E+00	1.59E+01	U
TM	15	532371001	1/13/2021	Cs-134	7.07E-01	6.10E-01	1.99E+00	U
TM	15	532371001	1/13/2021	Cs-137	3.30E+00	1.03E+00	1.81E+00	M
TM	15	532371001	1/13/2021	Fe-59	-1.41E-01	1.24E+00	3.96E+00	U
TM	15	532371001	1/13/2021	I-131	4.22E-01	2.65E-01	8.68E-01	U
TM	15	532371001	1/13/2021	K-40	1.92E+03	9.68E+01	1.35E+01	
TM	15	532371001	1/13/2021	La-140	4.22E-02	6.93E-01	2.33E+00	U
TM	15	532371001	1/13/2021	Mn-54	-1.54E-01	5.42E-01	1.74E+00	U
TM	15	532371001	1/13/2021	Nb-95	6.73E-01	5.69E-01	1.86E+00	U
TM	15	532371001	1/13/2021	Pb-212	-2.11E+00	1.74E+00	3.74E+00	U
TM	15	532371001	1/13/2021	Pb-214	4.10E-01	1.75E+00	4.23E+00	U
TM	15	532371001	1/13/2021	Ru-103	-6.88E-01	5.19E-01	1.59E+00	U
TM	15	532371001	1/13/2021	Ru-106	2.03E-02	4.73E+00	1.57E+01	U
TM	15	532371001	1/13/2021	Sb-124	-9.18E-01	9.06E-01	2.70E+00	U
TM	15	532371001	1/13/2021	Sb-125	1.93E-01	1.32E+00	4.47E+00	U
TM	15	532371001	1/13/2021	Se-75	-3.63E-01	7.52E-01	2.30E+00	U
TM	15	532371001	1/13/2021	Th-228	-2.11E+00	1.74E+00	3.74E+00	U
TM	15	532371001	1/13/2021	Zn-65	-3.33E-01	1.41E+00	4.46E+00	U
TM	15	532371001	1/13/2021	Zr-95	-7.49E-01	9.69E-01	3.04E+00	U
TM	15	537616001	3/10/2021	Ac-228	5.43E+00	6.92E+00	8.45E+00	U
TM	15	537616001	3/10/2021	Ag-108m	2.78E-01	4.77E-01	1.62E+00	U
TM	15	537616001	3/10/2021	Ag-110m	-5.41E-01	8.12E-01	2.53E+00	U
TM	15	537616001	3/10/2021	Ba-140	-7.35E+00	3.28E+00	8.54E+00	U
TM	15	537616001	3/10/2021	Be-7	-7.66E+00	4.92E+00	1.46E+01	U
TM	15	537616001	3/10/2021	Bi-214	9.82E-01	2.88E+00	3.67E+00	U
TM	15	537616001	3/10/2021	Ce-141	1.04E+00	1.11E+00	3.53E+00	U
TM	15	537616001	3/10/2021	Ce-144	6.05E-02	4.23E+00	1.36E+01	U
TM	15	537616001	3/10/2021	Co-57	-3.16E-01	7.17E-01	1.79E+00	U
TM	15	537616001	3/10/2021	Co-58	0.00E+00	8.82E-01	1.93E+00	U
TM	15	537616001	3/10/2021	Co-60	8.46E-01	6.39E-01	2.18E+00	U
TM	15	537616001	3/10/2021	Cr-51	-2.41E+00	5.19E+00	1.75E+01	U
TM	15	537616001	3/10/2021	Cs-134	2.17E-01	6.24E-01	2.06E+00	U
TM	15	537616001	3/10/2021	Cs-137	2.61E+00	1.04E+00	1.77E+00	M
TM	15	537616001	3/10/2021	Fe-59	1.20E+00	1.44E+00	4.68E+00	U
TM	15	537616001	3/10/2021	I-131	2.16E-01	1.86E-01	6.13E-01	U
TM	15	537616001	3/10/2021	K-40	1.88E+03	9.60E+01	1.78E+01	
TM	15	537616001	3/10/2021	La-140	2.03E-01	8.14E-01	2.76E+00	U
TM	15	537616001	3/10/2021	Mn-54	3.07E-01	5.44E-01	1.79E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	537616001	3/10/2021	Nb-95	-1.12E+00	6.56E-01	1.83E+00	U
TM	15	537616001	3/10/2021	Pb-212	1.30E+00	2.09E+00	4.32E+00	U
TM	15	537616001	3/10/2021	Pb-214	2.03E+00	2.51E+00	4.86E+00	U
TM	15	537616001	3/10/2021	Ru-103	-3.02E-01	6.66E-01	1.96E+00	U
TM	15	537616001	3/10/2021	Ru-106	3.14E-01	4.94E+00	1.64E+01	U
TM	15	537616001	3/10/2021	Sb-124	-4.07E-02	1.08E+00	3.60E+00	U
TM	15	537616001	3/10/2021	Sb-125	-1.67E+00	1.53E+00	4.85E+00	U
TM	15	537616001	3/10/2021	Se-75	9.11E-01	8.65E-01	2.69E+00	U
TM	15	537616001	3/10/2021	Th-228	1.30E+00	2.09E+00	4.32E+00	U
TM	15	537616001	3/10/2021	Zn-65	4.38E-02	1.52E+00	4.85E+00	U
TM	15	537616001	3/10/2021	Zr-95	1.11E+00	1.08E+00	3.55E+00	U
TM	15	540357001	4/7/2021	Ac-228	-4.30E+00	3.07E+00	6.08E+00	U
TM	15	540357001	4/7/2021	Ag-108m	-3.61E-01	3.61E-01	1.15E+00	U
TM	15	540357001	4/7/2021	Ag-110m	-4.43E-01	6.61E-01	2.05E+00	U
TM	15	540357001	4/7/2021	Ba-140	-2.46E-01	2.03E+00	6.71E+00	U
TM	15	540357001	4/7/2021	Be-7	5.98E+00	3.69E+00	1.20E+01	U
TM	15	540357001	4/7/2021	Bi-214	2.18E+00	1.89E+00	3.00E+00	U
TM	15	540357001	4/7/2021	Ce-141	1.08E+00	1.54E+00	2.39E+00	U
TM	15	540357001	4/7/2021	Ce-144	-8.22E-01	2.88E+00	9.23E+00	U
TM	15	540357001	4/7/2021	Co-57	9.21E-02	3.75E-01	1.22E+00	U
TM	15	540357001	4/7/2021	Co-58	-1.60E-01	4.83E-01	1.54E+00	U
TM	15	540357001	4/7/2021	Co-60	-8.74E-01	5.18E-01	1.47E+00	U
TM	15	540357001	4/7/2021	Cr-51	7.80E+00	4.05E+00	1.29E+01	U
TM	15	540357001	4/7/2021	Cs-134	9.75E-01	5.07E-01	1.59E+00	U
TM	15	540357001	4/7/2021	Cs-137	7.54E-01	5.02E-01	1.62E+00	U
TM	15	540357001	4/7/2021	Fe-59	3.69E-01	1.05E+00	3.37E+00	U
TM	15	540357001	4/7/2021	I-131	8.96E-02	1.68E-01	5.70E-01	U
TM	15	540357001	4/7/2021	K-40	1.49E+03	7.32E+01	1.37E+01	
TM	15	540357001	4/7/2021	La-140	-2.72E-01	5.98E-01	1.92E+00	U
TM	15	540357001	4/7/2021	Mn-54	8.24E-01	4.95E-01	1.57E+00	U
TM	15	540357001	4/7/2021	Nb-95	2.20E-01	4.50E-01	1.48E+00	U
TM	15	540357001	4/7/2021	Pb-212	1.38E-01	1.92E+00	2.50E+00	U
TM	15	540357001	4/7/2021	Pb-214	-1.60E-01	1.50E+00	3.38E+00	U
TM	15	540357001	4/7/2021	Ru-103	-1.85E-01	4.61E-01	1.52E+00	U
TM	15	540357001	4/7/2021	Ru-106	1.88E+00	3.68E+00	1.23E+01	U
TM	15	540357001	4/7/2021	Sb-124	-4.95E-01	7.26E-01	2.23E+00	U
TM	15	540357001	4/7/2021	Sb-125	-3.17E-01	1.07E+00	3.57E+00	U
TM	15	540357001	4/7/2021	Se-75	-1.57E-01	5.87E-01	1.82E+00	U
TM	15	540357001	4/7/2021	Th-228	1.38E-01	1.92E+00	2.50E+00	U
TM	15	540357001	4/7/2021	Zn-65	-2.22E-02	1.07E+00	3.64E+00	U
TM	15	540357001	4/7/2021	Zr-95	8.73E-03	8.06E-01	2.63E+00	U
TM	15	541847001	4/21/2021	Ac-228	-6.83E+00	5.23E+00	9.63E+00	U
TM	15	541847001	4/21/2021	Ag-108m	-7.15E-02	5.10E-01	1.72E+00	U
TM	15	541847001	4/21/2021	Ag-110m	-1.41E+00	9.59E-01	2.70E+00	U
TM	15	541847001	4/21/2021	Ba-140	2.45E+00	2.87E+00	9.69E+00	U
TM	15	541847001	4/21/2021	Be-7	2.41E+00	5.15E+00	1.75E+01	U
TM	15	541847001	4/21/2021	Bi-214	-2.58E+00	2.37E+00	4.73E+00	U
TM	15	541847001	4/21/2021	Ce-141	1.87E+00	1.90E+00	3.48E+00	U
TM	15	541847001	4/21/2021	Ce-144	2.64E+00	4.33E+00	1.42E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	541847001	4/21/2021	Co-57	1.32E-01	5.65E-01	1.86E+00	U
TM	15	541847001	4/21/2021	Co-58	-3.41E-02	6.40E-01	2.07E+00	U
TM	15	541847001	4/21/2021	Co-60	1.35E+00	8.46E-01	2.82E+00	U
TM	15	541847001	4/21/2021	Cr-51	1.36E+01	6.81E+00	1.99E+01	U
TM	15	541847001	4/21/2021	Cs-134	2.26E-02	7.01E-01	2.28E+00	U
TM	15	541847001	4/21/2021	Cs-137	1.73E+00	1.22E+00	2.21E+00	U
TM	15	541847001	4/21/2021	Fe-59	-1.57E+00	1.62E+00	4.77E+00	U
TM	15	541847001	4/21/2021	I-131	-1.04E-01	1.36E-01	4.49E-01	U
TM	15	541847001	4/21/2021	K-40	1.57E+03	8.92E+01	2.05E+01	
TM	15	541847001	4/21/2021	La-140	3.16E-01	8.09E-01	2.75E+00	U
TM	15	541847001	4/21/2021	Mn-54	-4.80E-01	6.21E-01	1.91E+00	U
TM	15	541847001	4/21/2021	Nb-95	1.09E+00	6.68E-01	2.16E+00	U
TM	15	541847001	4/21/2021	Pb-212	1.49E+00	2.75E+00	3.82E+00	U
TM	15	541847001	4/21/2021	Pb-214	-8.30E-01	2.04E+00	5.08E+00	U
TM	15	541847001	4/21/2021	Ru-103	-6.53E-01	6.36E-01	2.00E+00	U
TM	15	541847001	4/21/2021	Ru-106	-5.33E+00	5.43E+00	1.68E+01	U
TM	15	541847001	4/21/2021	Sb-124	1.56E+00	1.30E+00	4.48E+00	U
TM	15	541847001	4/21/2021	Sb-125	-1.46E+00	1.69E+00	5.49E+00	U
TM	15	541847001	4/21/2021	Se-75	8.62E-01	9.34E-01	2.94E+00	U
TM	15	541847001	4/21/2021	Th-228	1.49E+00	2.75E+00	3.82E+00	U
TM	15	541847001	4/21/2021	Zn-65	-1.04E+00	1.63E+00	4.94E+00	U
TM	15	541847001	4/21/2021	Zr-95	-3.18E+00	1.35E+00	3.24E+00	U
TM	15	544028001	5/5/2021	Ac-228	0.00E+00	4.60E+00	6.20E+00	U
TM	15	544028001	5/5/2021	Ag-108m	-4.14E-01	3.48E-01	1.09E+00	U
TM	15	544028001	5/5/2021	Ag-110m	-6.24E-02	5.84E-01	1.85E+00	U
TM	15	544028001	5/5/2021	Ba-140	4.03E-01	2.85E+00	8.47E+00	U
TM	15	544028001	5/5/2021	Be-7	3.82E+00	3.55E+00	1.17E+01	U
TM	15	544028001	5/5/2021	Bi-214	4.48E+00	1.93E+00	2.58E+00	UI
TM	15	544028001	5/5/2021	Ce-141	-1.68E+00	9.03E-01	2.54E+00	U
TM	15	544028001	5/5/2021	Ce-144	-7.35E-01	2.67E+00	8.59E+00	U
TM	15	544028001	5/5/2021	Co-57	-1.93E-01	3.47E-01	1.11E+00	U
TM	15	544028001	5/5/2021	Co-58	-3.95E-01	4.32E-01	1.31E+00	U
TM	15	544028001	5/5/2021	Co-60	-2.67E-01	4.69E-01	1.51E+00	U
TM	15	544028001	5/5/2021	Cr-51	-1.04E+00	4.03E+00	1.37E+01	U
TM	15	544028001	5/5/2021	Cs-134	6.77E-01	4.55E-01	1.44E+00	U
TM	15	544028001	5/5/2021	Cs-137	0.00E+00	6.73E-01	1.37E+00	U
TM	15	544028001	5/5/2021	Fe-59	-6.05E-01	1.14E+00	3.28E+00	U
TM	15	544028001	5/5/2021	I-131	1.74E-01	1.87E-01	5.47E-01	U
TM	15	544028001	5/5/2021	K-40	1.61E+03	9.16E+01	1.19E+01	
TM	15	544028001	5/5/2021	La-140	-6.11E-01	7.76E-01	2.39E+00	U
TM	15	544028001	5/5/2021	Mn-54	-3.15E-02	4.13E-01	1.32E+00	U
TM	15	544028001	5/5/2021	Nb-95	0.00E+00	7.91E-01	1.40E+00	U
TM	15	544028001	5/5/2021	Pb-212	1.41E+00	1.59E+00	2.92E+00	U
TM	15	544028001	5/5/2021	Pb-214	2.45E+00	2.34E+00	3.36E+00	U
TM	15	544028001	5/5/2021	Ru-103	1.94E-01	4.96E-01	1.49E+00	U
TM	15	544028001	5/5/2021	Ru-106	-5.01E+00	4.15E+00	1.11E+01	U
TM	15	544028001	5/5/2021	Sb-124	-1.80E-01	8.72E-01	2.80E+00	U
TM	15	544028001	5/5/2021	Sb-125	-5.69E-01	1.06E+00	3.48E+00	U
TM	15	544028001	5/5/2021	Se-75	-7.66E-02	5.74E-01	1.78E+00	U
TM	15	544028001	5/5/2021	Th-228	1.41E+00	1.59E+00	2.92E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	544028001	5/5/2021	Zn-65	1.07E+00	1.06E+00	3.54E+00	U
TM	15	544028001	5/5/2021	Zr-95	-6.22E-01	7.62E-01	2.35E+00	U
TM	15	545456001	5/19/2021	Ac-228	-1.90E+00	3.72E+00	8.53E+00	U
TM	15	545456001	5/19/2021	Ag-108m	1.56E-01	4.73E-01	1.54E+00	U
TM	15	545456001	5/19/2021	Ag-110m	-2.60E-01	7.60E-01	2.52E+00	U
TM	15	545456001	5/19/2021	Ba-140	-2.90E+00	4.27E+00	1.32E+01	U
TM	15	545456001	5/19/2021	Be-7	-2.49E+00	5.94E+00	1.67E+01	U
TM	15	545456001	5/19/2021	Bi-214	9.05E-02	1.80E+00	4.29E+00	U
TM	15	545456001	5/19/2021	Ce-141	-8.56E-01	1.13E+00	3.69E+00	U
TM	15	545456001	5/19/2021	Ce-144	-4.18E+00	3.74E+00	1.20E+01	U
TM	15	545456001	5/19/2021	Co-57	3.20E-01	5.09E-01	1.72E+00	U
TM	15	545456001	5/19/2021	Co-58	-4.03E-02	6.90E-01	2.05E+00	U
TM	15	545456001	5/19/2021	Co-60	4.82E-01	6.50E-01	2.17E+00	U
TM	15	545456001	5/19/2021	Cr-51	6.07E-01	6.16E+00	2.03E+01	U
TM	15	545456001	5/19/2021	Cs-134	-5.43E-01	6.25E-01	2.01E+00	U
TM	15	545456001	5/19/2021	Cs-137	1.47E+00	8.43E-01	2.04E+00	U
TM	15	545456001	5/19/2021	Fe-59	4.97E-01	1.51E+00	5.05E+00	U
TM	15	545456001	5/19/2021	I-131	5.31E-01	2.98E-01	9.46E-01	U
TM	15	545456001	5/19/2021	K-40	1.53E+03	7.46E+01	1.84E+01	
TM	15	545456001	5/19/2021	La-140	8.94E-01	1.43E+00	4.23E+00	U
TM	15	545456001	5/19/2021	Mn-54	-1.60E-01	5.47E-01	1.83E+00	U
TM	15	545456001	5/19/2021	Nb-95	-8.22E-02	6.04E-01	2.04E+00	U
TM	15	545456001	5/19/2021	Pb-212	8.52E-01	2.02E+00	3.78E+00	U
TM	15	545456001	5/19/2021	Pb-214	9.93E-01	1.91E+00	4.53E+00	U
TM	15	545456001	5/19/2021	Ru-103	-1.24E-01	6.66E-01	2.13E+00	U
TM	15	545456001	5/19/2021	Ru-106	-7.91E+00	5.63E+00	1.61E+01	U
TM	15	545456001	5/19/2021	Sb-124	-6.20E-01	1.22E+00	3.78E+00	U
TM	15	545456001	5/19/2021	Sb-125	-4.52E-01	1.40E+00	4.49E+00	U
TM	15	545456001	5/19/2021	Se-75	-7.06E-01	7.80E-01	2.48E+00	U
TM	15	545456001	5/19/2021	Th-228	8.52E-01	2.02E+00	3.78E+00	U
TM	15	545456001	5/19/2021	Zn-65	-1.54E+00	1.52E+00	4.74E+00	U
TM	15	545456001	5/19/2021	Zr-95	8.41E-01	1.09E+00	3.70E+00	U
TM	15	546358001	6/2/2021	Ac-228	-4.34E+00	5.22E+00	1.38E+01	U
TM	15	546358001	6/2/2021	Ag-108m	4.79E-02	5.99E-01	2.04E+00	U
TM	15	546358001	6/2/2021	Ag-110m	1.59E+00	1.14E+00	3.71E+00	U
TM	15	546358001	6/2/2021	Ba-140	-3.30E-01	3.60E+00	1.20E+01	U
TM	15	546358001	6/2/2021	Be-7	1.84E+00	5.77E+00	1.97E+01	U
TM	15	546358001	6/2/2021	Bi-214	5.22E+00	3.81E+00	5.24E+00	U
TM	15	546358001	6/2/2021	Ce-141	-4.86E-01	1.24E+00	4.06E+00	U
TM	15	546358001	6/2/2021	Ce-144	0.00E+00	7.53E+00	1.45E+01	U
TM	15	546358001	6/2/2021	Co-57	4.18E-01	6.02E-01	2.01E+00	U
TM	15	546358001	6/2/2021	Co-58	9.38E-01	8.31E-01	2.74E+00	U
TM	15	546358001	6/2/2021	Co-60	-2.73E+00	2.65E+00	2.80E+00	U
TM	15	546358001	6/2/2021	Cr-51	-2.23E+01	1.08E+01	2.05E+01	U
TM	15	546358001	6/2/2021	Cs-134	7.66E-02	8.27E-01	2.70E+00	U
TM	15	546358001	6/2/2021	Cs-137	1.38E+00	1.53E+00	2.60E+00	U
TM	15	546358001	6/2/2021	Fe-59	0.00E+00	4.33E+00	6.48E+00	U
TM	15	546358001	6/2/2021	I-131	-2.14E-02	2.11E-01	5.98E-01	U
TM	15	546358001	6/2/2021	K-40	1.61E+03	8.85E+01	2.43E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	546358001	6/2/2021	La-140	-8.07E-02	1.23E+00	4.03E+00	U
TM	15	546358001	6/2/2021	Mn-54	4.87E-02	8.04E-01	2.61E+00	U
TM	15	546358001	6/2/2021	Nb-95	4.37E-01	8.39E-01	2.77E+00	U
TM	15	546358001	6/2/2021	Pb-212	2.69E+00	2.73E+00	5.34E+00	U
TM	15	546358001	6/2/2021	Pb-214	4.17E+00	4.20E+00	6.60E+00	U
TM	15	546358001	6/2/2021	Ru-103	1.08E-01	8.14E-01	2.75E+00	U
TM	15	546358001	6/2/2021	Ru-106	2.65E+00	6.65E+00	2.23E+01	U
TM	15	546358001	6/2/2021	Sb-124	-9.65E-02	1.72E+00	5.58E+00	U
TM	15	546358001	6/2/2021	Sb-125	-8.82E-01	1.85E+00	6.17E+00	U
TM	15	546358001	6/2/2021	Se-75	-2.84E-02	9.69E-01	3.08E+00	U
TM	15	546358001	6/2/2021	Th-228	2.69E+00	2.73E+00	5.34E+00	U
TM	15	546358001	6/2/2021	Zn-65	-1.96E+00	2.06E+00	6.56E+00	U
TM	15	546358001	6/2/2021	Zr-95	-1.69E+00	1.48E+00	4.41E+00	U
TM	15	547916001	6/16/2021	Ac-228	3.09E+00	2.08E+00	6.73E+00	U
TM	15	547916001	6/16/2021	Ag-108m	-4.40E-01	3.73E-01	1.19E+00	U
TM	15	547916001	6/16/2021	Ag-110m	3.11E-01	6.49E-01	2.15E+00	U
TM	15	547916001	6/16/2021	Ba-140	-8.93E+00	4.71E+00	1.06E+01	U
TM	15	547916001	6/16/2021	Be-7	1.79E-01	3.76E+00	1.28E+01	U
TM	15	547916001	6/16/2021	Bi-214	0.00E+00	2.43E+00	3.60E+00	U
TM	15	547916001	6/16/2021	Ce-141	-3.66E-01	9.33E-01	2.78E+00	U
TM	15	547916001	6/16/2021	Ce-144	2.44E-01	2.92E+00	9.60E+00	U
TM	15	547916001	6/16/2021	Co-57	6.32E-01	4.21E-01	1.24E+00	U
TM	15	547916001	6/16/2021	Co-58	1.83E-01	5.05E-01	1.68E+00	U
TM	15	547916001	6/16/2021	Co-60	2.72E-01	5.51E-01	1.78E+00	U
TM	15	547916001	6/16/2021	Cr-51	3.82E-01	5.07E+00	1.60E+01	U
TM	15	547916001	6/16/2021	Cs-134	6.23E-01	4.82E-01	1.60E+00	U
TM	15	547916001	6/16/2021	Cs-137	3.89E-01	4.36E-01	1.47E+00	U
TM	15	547916001	6/16/2021	Fe-59	-9.19E-01	1.26E+00	3.89E+00	U
TM	15	547916001	6/16/2021	I-131	-1.25E-02	2.42E-01	8.21E-01	U
TM	15	547916001	6/16/2021	K-40	1.68E+03	8.11E+01	1.51E+01	
TM	15	547916001	6/16/2021	La-140	-3.22E-01	8.84E-01	2.90E+00	U
TM	15	547916001	6/16/2021	Mn-54	-7.62E-01	5.02E-01	1.45E+00	U
TM	15	547916001	6/16/2021	Nb-95	-1.97E-01	5.19E-01	1.69E+00	U
TM	15	547916001	6/16/2021	Pb-212	0.00E+00	1.48E+00	2.48E+00	U
TM	15	547916001	6/16/2021	Pb-214	1.18E-01	1.66E+00	3.46E+00	U
TM	15	547916001	6/16/2021	Ru-103	1.83E-01	5.35E-01	1.65E+00	U
TM	15	547916001	6/16/2021	Ru-106	-1.01E+00	3.91E+00	1.30E+01	U
TM	15	547916001	6/16/2021	Sb-124	-3.38E-01	1.05E+00	3.31E+00	U
TM	15	547916001	6/16/2021	Sb-125	-8.98E-01	1.20E+00	3.54E+00	U
TM	15	547916001	6/16/2021	Se-75	-8.20E-01	6.31E-01	1.84E+00	U
TM	15	547916001	6/16/2021	Th-228	0.00E+00	1.48E+00	2.48E+00	U
TM	15	547916001	6/16/2021	Zn-65	1.01E+00	1.23E+00	3.99E+00	U
TM	15	547916001	6/16/2021	Zr-95	3.82E-01	8.67E-01	2.90E+00	U
TM	15	550014001	7/14/2021	Ac-228	4.01E+00	4.86E+00	7.92E+00	U
TM	15	550014001	7/14/2021	Ag-108m	1.02E+00	5.98E-01	1.92E+00	U
TM	15	550014001	7/14/2021	Ag-110m	1.05E+00	9.43E-01	3.04E+00	U
TM	15	550014001	7/14/2021	Ba-140	4.83E-01	4.19E+00	1.40E+01	U
TM	15	550014001	7/14/2021	Be-7	3.44E+00	5.60E+00	1.88E+01	U
TM	15	550014001	7/14/2021	Bi-214	3.40E+00	3.76E+00	4.23E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	550014001	7/14/2021	Ce-141	2.84E+00	2.75E+00	3.81E+00	U
TM	15	550014001	7/14/2021	Ce-144	-9.79E-01	4.08E+00	1.32E+01	U
TM	15	550014001	7/14/2021	Co-57	-9.49E-01	5.88E-01	1.72E+00	U
TM	15	550014001	7/14/2021	Co-58	-6.66E-01	7.35E-01	2.24E+00	U
TM	15	550014001	7/14/2021	Co-60	-7.95E-01	6.74E-01	2.04E+00	U
TM	15	550014001	7/14/2021	Cr-51	4.53E+00	6.50E+00	2.23E+01	U
TM	15	550014001	7/14/2021	Cs-134	6.29E-02	7.08E-01	2.29E+00	U
TM	15	550014001	7/14/2021	Cs-137	7.15E-01	1.33E+00	2.29E+00	U
TM	15	550014001	7/14/2021	Fe-59	-5.01E-01	1.45E+00	4.82E+00	U
TM	15	550014001	7/14/2021	I-131	2.23E-01	3.99E-01	1.32E+00	UDL
TM	15	550014001	7/14/2021	K-40	1.63E+03	9.26E+01	1.91E+01	
TM	15	550014001	7/14/2021	La-140	-2.99E-01	1.23E+00	3.99E+00	U
TM	15	550014001	7/14/2021	Mn-54	1.05E+00	8.34E-01	2.19E+00	U
TM	15	550014001	7/14/2021	Nb-95	-2.32E-01	6.97E-01	2.22E+00	U
TM	15	550014001	7/14/2021	Pb-212	-1.57E-01	1.70E+00	4.10E+00	U
TM	15	550014001	7/14/2021	Pb-214	-3.50E+00	2.61E+00	4.86E+00	U
TM	15	550014001	7/14/2021	Ru-103	-4.40E-01	7.25E-01	2.36E+00	U
TM	15	550014001	7/14/2021	Ru-106	-4.89E+00	6.13E+00	1.93E+01	U
TM	15	550014001	7/14/2021	Sb-124	1.70E+00	1.79E+00	4.01E+00	U
TM	15	550014001	7/14/2021	Sb-125	-1.55E+00	1.67E+00	5.34E+00	U
TM	15	550014001	7/14/2021	Se-75	2.01E-01	8.66E-01	2.72E+00	U
TM	15	550014001	7/14/2021	Th-228	-1.57E-01	1.70E+00	4.10E+00	U
TM	15	550014001	7/14/2021	Zn-65	4.94E-01	1.67E+00	5.06E+00	U
TM	15	550014001	7/14/2021	Zr-95	-1.67E+00	1.94E+00	3.95E+00	U
TM	15	551095001	7/28/2021	Ac-228	7.10E+00	4.89E+00	7.97E+00	U
TM	15	551095001	7/28/2021	Ag-108m	-2.07E-01	4.52E-01	1.41E+00	U
TM	15	551095001	7/28/2021	Ag-110m	1.05E-01	7.09E-01	2.32E+00	U
TM	15	551095001	7/28/2021	Ba-140	2.03E+00	2.77E+00	9.34E+00	U
TM	15	551095001	7/28/2021	Be-7	-4.96E+00	4.76E+00	1.33E+01	U
TM	15	551095001	7/28/2021	Bi-214	0.00E+00	2.93E+00	3.24E+00	U
TM	15	551095001	7/28/2021	Ce-141	-1.57E+00	1.35E+00	3.14E+00	U
TM	15	551095001	7/28/2021	Ce-144	1.23E-01	3.22E+00	1.08E+01	U
TM	15	551095001	7/28/2021	Co-57	2.03E-01	4.18E-01	1.41E+00	U
TM	15	551095001	7/28/2021	Co-58	4.19E-02	5.54E-01	1.82E+00	U
TM	15	551095001	7/28/2021	Co-60	-4.34E-01	5.99E-01	1.92E+00	U
TM	15	551095001	7/28/2021	Cr-51	-5.05E+00	5.77E+00	1.59E+01	U
TM	15	551095001	7/28/2021	Cs-134	-1.53E+00	8.99E-01	1.93E+00	U
TM	15	551095001	7/28/2021	Cs-137	1.35E+00	6.48E-01	1.99E+00	U
TM	15	551095001	7/28/2021	Fe-59	-8.26E-01	1.49E+00	4.03E+00	U
TM	15	551095001	7/28/2021	I-131	9.88E-03	1.87E-01	6.18E-01	U
TM	15	551095001	7/28/2021	K-40	1.77E+03	9.26E+01	1.46E+01	
TM	15	551095001	7/28/2021	La-140	-9.94E-01	7.83E-01	2.28E+00	U
TM	15	551095001	7/28/2021	Mn-54	2.24E-01	5.77E-01	1.77E+00	U
TM	15	551095001	7/28/2021	Nb-95	-9.76E-01	8.68E-01	1.74E+00	U
TM	15	551095001	7/28/2021	Pb-212	3.27E+00	2.09E+00	3.50E+00	U
TM	15	551095001	7/28/2021	Pb-214	4.54E-02	2.68E+00	3.94E+00	U
TM	15	551095001	7/28/2021	Ru-103	8.98E-03	5.18E-01	1.75E+00	U
TM	15	551095001	7/28/2021	Ru-106	4.32E-01	4.24E+00	1.42E+01	U
TM	15	551095001	7/28/2021	Sb-124	-5.34E-01	1.23E+00	3.36E+00	U
TM	15	551095001	7/28/2021	Sb-125	7.62E-01	1.34E+00	4.29E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	551095001	7/28/2021	Se-75	-1.05E+00	8.40E-01	2.27E+00	U
TM	15	551095001	7/28/2021	Th-228	3.27E+00	2.09E+00	3.50E+00	U
TM	15	551095001	7/28/2021	Zn-65	-2.04E+00	1.48E+00	4.28E+00	U
TM	15	551095001	7/28/2021	Zr-95	4.34E-01	9.13E-01	3.03E+00	U
TM	15	552751001	8/11/2021	Ac-228	2.66E-01	5.59E+00	9.90E+00	U
TM	15	552751001	8/11/2021	Ag-108m	9.06E-01	5.47E-01	1.74E+00	U
TM	15	552751001	8/11/2021	Ag-110m	1.44E+00	1.17E+00	2.86E+00	U
TM	15	552751001	8/11/2021	Ba-140	-5.12E-01	2.75E+00	8.88E+00	U
TM	15	552751001	8/11/2021	Be-7	2.73E+00	5.44E+00	1.61E+01	U
TM	15	552751001	8/11/2021	Bi-214	3.57E+00	3.46E+00	3.97E+00	U
TM	15	552751001	8/11/2021	Ce-141	-6.18E-01	1.18E+00	3.53E+00	U
TM	15	552751001	8/11/2021	Ce-144	-1.92E+00	4.07E+00	1.36E+01	U
TM	15	552751001	8/11/2021	Co-57	-6.21E-01	5.65E-01	1.82E+00	U
TM	15	552751001	8/11/2021	Co-58	3.55E-01	6.30E-01	2.04E+00	U
TM	15	552751001	8/11/2021	Co-60	-4.94E-01	7.26E-01	2.34E+00	U
TM	15	552751001	8/11/2021	Cr-51	1.39E+01	6.72E+00	1.87E+01	U
TM	15	552751001	8/11/2021	Cs-134	-2.47E+00	1.17E+00	2.19E+00	U
TM	15	552751001	8/11/2021	Cs-137	0.00E+00	1.27E+00	2.05E+00	U
TM	15	552751001	8/11/2021	Fe-59	4.16E-01	1.46E+00	4.99E+00	U
TM	15	552751001	8/11/2021	I-131	1.48E-01	1.32E-01	4.48E-01	U
TM	15	552751001	8/11/2021	K-40	1.68E+03	9.57E+01	2.13E+01	
TM	15	552751001	8/11/2021	La-140	-8.97E-01	9.00E-01	2.73E+00	U
TM	15	552751001	8/11/2021	Mn-54	-5.91E-01	6.62E-01	2.00E+00	U
TM	15	552751001	8/11/2021	Nb-95	1.94E-01	6.54E-01	2.11E+00	U
TM	15	552751001	8/11/2021	Pb-212	1.03E-02	2.69E+00	4.45E+00	U
TM	15	552751001	8/11/2021	Pb-214	3.86E+00	1.64E+00	4.81E+00	U
TM	15	552751001	8/11/2021	Ru-103	-1.04E+00	7.43E-01	1.93E+00	U
TM	15	552751001	8/11/2021	Ru-106	4.78E+00	5.31E+00	1.73E+01	U
TM	15	552751001	8/11/2021	Sb-124	1.57E+00	1.30E+00	4.48E+00	U
TM	15	552751001	8/11/2021	Sb-125	1.39E+00	1.59E+00	5.24E+00	U
TM	15	552751001	8/11/2021	Se-75	-3.71E-01	7.96E-01	2.61E+00	U
TM	15	552751001	8/11/2021	Th-228	1.03E-02	2.69E+00	4.45E+00	U
TM	15	552751001	8/11/2021	Zn-65	1.16E+00	1.64E+00	4.99E+00	U
TM	15	552751001	8/11/2021	Zr-95	-5.16E-01	1.07E+00	3.34E+00	U
TM	15	554148001	8/25/2021	Ac-228	1.66E+00	4.59E+00	9.59E+00	U
TM	15	554148001	8/25/2021	Ag-108m	-1.50E-01	4.83E-01	1.57E+00	U
TM	15	554148001	8/25/2021	Ag-110m	-1.11E+00	9.84E-01	2.89E+00	U
TM	15	554148001	8/25/2021	Ba-140	6.66E+00	3.86E+00	1.11E+01	U
TM	15	554148001	8/25/2021	Be-7	-1.34E+00	5.12E+00	1.66E+01	U
TM	15	554148001	8/25/2021	Bi-214	3.42E+00	2.76E+00	3.74E+00	U
TM	15	554148001	8/25/2021	Ce-141	2.40E-01	1.28E+00	3.92E+00	U
TM	15	554148001	8/25/2021	Ce-144	2.01E+00	4.24E+00	1.44E+01	U
TM	15	554148001	8/25/2021	Co-57	-1.53E-01	5.49E-01	1.85E+00	U
TM	15	554148001	8/25/2021	Co-58	-3.09E-01	6.47E-01	2.02E+00	U
TM	15	554148001	8/25/2021	Co-60	1.85E+00	8.20E-01	2.58E+00	U
TM	15	554148001	8/25/2021	Cr-51	6.25E-01	6.13E+00	2.04E+01	U
TM	15	554148001	8/25/2021	Cs-134	2.40E-01	6.97E-01	2.25E+00	U
TM	15	554148001	8/25/2021	Cs-137	0.00E+00	8.62E-01	1.88E+00	U
TM	15	554148001	8/25/2021	Fe-59	1.89E-01	1.55E+00	5.28E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	554148001	8/25/2021	I-131	-3.93E-01	3.53E-01	7.25E-01	U
TM	15	554148001	8/25/2021	K-40	1.72E+03	9.72E+01	1.86E+01	
TM	15	554148001	8/25/2021	La-140	1.62E+00	1.12E+00	3.81E+00	U
TM	15	554148001	8/25/2021	Mn-54	-8.92E-01	6.74E-01	1.94E+00	U
TM	15	554148001	8/25/2021	Nb-95	5.94E-01	6.81E-01	2.20E+00	U
TM	15	554148001	8/25/2021	Pb-212	5.16E-01	2.70E+00	4.45E+00	U
TM	15	554148001	8/25/2021	Pb-214	1.18E+00	3.20E+00	4.96E+00	U
TM	15	554148001	8/25/2021	Ru-103	4.22E-01	6.86E-01	2.03E+00	U
TM	15	554148001	8/25/2021	Ru-106	-7.75E+00	5.79E+00	1.60E+01	U
TM	15	554148001	8/25/2021	Sb-124	-2.01E+00	1.51E+00	4.33E+00	U
TM	15	554148001	8/25/2021	Sb-125	-3.87E-01	1.61E+00	5.24E+00	U
TM	15	554148001	8/25/2021	Se-75	6.33E-01	8.42E-01	2.81E+00	U
TM	15	554148001	8/25/2021	Th-228	5.16E-01	2.70E+00	4.45E+00	U
TM	15	554148001	8/25/2021	Zn-65	3.00E+00	2.01E+00	4.77E+00	U
TM	15	554148001	8/25/2021	Zr-95	-7.43E-01	1.22E+00	3.78E+00	U
TM	15	555713001	9/8/2021	Ac-228	1.13E+01	5.83E+00	1.18E+01	U
TM	15	555713001	9/8/2021	Ag-108m	5.25E-01	5.76E-01	1.82E+00	U
TM	15	555713001	9/8/2021	Ag-110m	-8.94E-01	1.02E+00	3.25E+00	U
TM	15	555713001	9/8/2021	Ba-140	4.95E+00	4.19E+00	1.35E+01	U
TM	15	555713001	9/8/2021	Be-7	8.30E+00	6.24E+00	2.01E+01	U
TM	15	555713001	9/8/2021	Bi-214	3.10E+00	3.13E+00	5.61E+00	U
TM	15	555713001	9/8/2021	Ce-141	1.24E+00	1.91E+00	3.09E+00	U
TM	15	555713001	9/8/2021	Ce-144	1.01E+00	3.71E+00	1.17E+01	U
TM	15	555713001	9/8/2021	Co-57	5.04E-01	4.77E-01	1.49E+00	U
TM	15	555713001	9/8/2021	Co-58	-1.67E+00	8.36E-01	2.31E+00	U
TM	15	555713001	9/8/2021	Co-60	-7.11E-01	8.84E-01	2.74E+00	U
TM	15	555713001	9/8/2021	Cr-51	5.07E+00	6.17E+00	2.06E+01	U
TM	15	555713001	9/8/2021	Cs-134	5.60E-01	8.60E-01	2.63E+00	U
TM	15	555713001	9/8/2021	Cs-137	1.95E+00	1.43E+00	2.57E+00	U
TM	15	555713001	9/8/2021	Fe-59	1.38E-01	2.04E+00	6.78E+00	U
TM	15	555713001	9/8/2021	I-131	-4.09E-02	2.25E-01	7.17E-01	U
TM	15	555713001	9/8/2021	K-40	1.60E+03	8.43E+01	2.44E+01	
TM	15	555713001	9/8/2021	La-140	4.30E-01	1.30E+00	4.15E+00	U
TM	15	555713001	9/8/2021	Mn-54	-8.84E-01	1.06E+00	2.51E+00	U
TM	15	555713001	9/8/2021	Nb-95	9.65E-01	7.74E-01	2.62E+00	U
TM	15	555713001	9/8/2021	Pb-212	7.55E-01	2.25E+00	3.44E+00	U
TM	15	555713001	9/8/2021	Pb-214	0.00E+00	4.17E+00	5.42E+00	U
TM	15	555713001	9/8/2021	Ru-103	-1.61E+00	8.32E-01	2.26E+00	U
TM	15	555713001	9/8/2021	Ru-106	2.29E+00	6.25E+00	2.03E+01	U
TM	15	555713001	9/8/2021	Sb-124	-5.42E-01	2.03E+00	5.53E+00	U
TM	15	555713001	9/8/2021	Sb-125	-1.13E+00	1.72E+00	5.48E+00	U
TM	15	555713001	9/8/2021	Se-75	-4.66E-01	7.84E-01	2.59E+00	U
TM	15	555713001	9/8/2021	Th-228	7.55E-01	2.25E+00	3.44E+00	U
TM	15	555713001	9/8/2021	Zn-65	-4.66E+00	2.22E+00	5.89E+00	U
TM	15	555713001	9/8/2021	Zr-95	1.11E+00	1.44E+00	4.63E+00	U
TM	15	556849001	9/22/2021	Ac-228	4.91E+00	4.22E+00	1.01E+01	U
TM	15	556849001	9/22/2021	Ag-108m	-3.52E-01	5.66E-01	1.74E+00	U
TM	15	556849001	9/22/2021	Ag-110m	5.07E-01	9.04E-01	3.03E+00	U
TM	15	556849001	9/22/2021	Ba-140	1.21E-01	2.94E+00	9.78E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	556849001	9/22/2021	Be-7	-2.21E+00	4.93E+00	1.63E+01	U
TM	15	556849001	9/22/2021	Bi-214	-4.21E+00	2.48E+00	5.03E+00	U
TM	15	556849001	9/22/2021	Ce-141	-1.02E+00	9.90E-01	3.03E+00	U
TM	15	556849001	9/22/2021	Ce-144	5.21E+00	3.81E+00	1.21E+01	U
TM	15	556849001	9/22/2021	Co-57	2.26E-01	4.78E-01	1.57E+00	U
TM	15	556849001	9/22/2021	Co-58	-5.22E-01	7.00E-01	2.26E+00	U
TM	15	556849001	9/22/2021	Co-60	-2.71E-01	7.47E-01	2.43E+00	U
TM	15	556849001	9/22/2021	Cr-51	-1.65E+00	5.10E+00	1.66E+01	U
TM	15	556849001	9/22/2021	Cs-134	5.48E-01	7.28E-01	2.47E+00	U
TM	15	556849001	9/22/2021	Cs-137	0.00E+00	8.72E-01	2.18E+00	U
TM	15	556849001	9/22/2021	Fe-59	1.35E+00	1.96E+00	5.57E+00	U
TM	15	556849001	9/22/2021	I-131	-3.69E-01	3.05E-01	9.09E-01	U
TM	15	556849001	9/22/2021	K-40	1.47E+03	7.42E+01	2.05E+01	
TM	15	556849001	9/22/2021	La-140	-7.48E-01	9.86E-01	3.01E+00	U
TM	15	556849001	9/22/2021	Mn-54	3.26E-01	6.65E-01	2.24E+00	U
TM	15	556849001	9/22/2021	Nb-95	-2.18E-01	6.81E-01	2.27E+00	U
TM	15	556849001	9/22/2021	Pb-212	-7.31E-01	1.41E+00	3.74E+00	U
TM	15	556849001	9/22/2021	Pb-214	4.70E+00	3.26E+00	4.85E+00	U
TM	15	556849001	9/22/2021	Ru-103	-6.33E-02	6.54E-01	2.19E+00	U
TM	15	556849001	9/22/2021	Ru-106	-9.51E+00	6.39E+00	1.86E+01	U
TM	15	556849001	9/22/2021	Sb-124	-2.11E+00	1.60E+00	4.72E+00	U
TM	15	556849001	9/22/2021	Sb-125	2.46E-01	1.68E+00	5.33E+00	U
TM	15	556849001	9/22/2021	Se-75	-1.05E-01	7.21E-01	2.41E+00	U
TM	15	556849001	9/22/2021	Th-228	-7.31E-01	1.41E+00	3.74E+00	U
TM	15	556849001	9/22/2021	Zn-65	-2.18E+00	1.89E+00	5.65E+00	U
TM	15	556849001	9/22/2021	Zr-95	-1.22E+00	1.17E+00	3.72E+00	U
TM	15	558374001	10/6/2021	Ac-228	-8.33E+00	4.26E+00	9.21E+00	U
TM	15	558374001	10/6/2021	Ag-108m	-5.68E-01	5.68E-01	1.53E+00	U
TM	15	558374001	10/6/2021	Ag-110m	-2.78E-02	1.33E+00	2.95E+00	U
TM	15	558374001	10/6/2021	Ba-140	-2.93E+00	3.15E+00	9.47E+00	U
TM	15	558374001	10/6/2021	Be-7	5.89E+00	5.34E+00	1.72E+01	U
TM	15	558374001	10/6/2021	Bi-214	-2.48E+00	1.81E+00	4.81E+00	U
TM	15	558374001	10/6/2021	Ce-141	9.41E-01	1.10E+00	3.22E+00	U
TM	15	558374001	10/6/2021	Ce-144	-6.35E+00	3.95E+00	1.13E+01	U
TM	15	558374001	10/6/2021	Co-57	-7.65E-03	4.92E-01	1.58E+00	U
TM	15	558374001	10/6/2021	Co-58	1.29E+00	7.57E-01	2.18E+00	U
TM	15	558374001	10/6/2021	Co-60	-1.37E-01	6.54E-01	2.16E+00	U
TM	15	558374001	10/6/2021	Cr-51	-6.21E+00	5.51E+00	1.72E+01	U
TM	15	558374001	10/6/2021	Cs-134	1.33E+00	7.22E-01	2.30E+00	U
TM	15	558374001	10/6/2021	Cs-137	1.79E+00	1.02E+00	2.01E+00	U
TM	15	558374001	10/6/2021	Fe-59	2.19E-02	1.62E+00	5.21E+00	U
TM	15	558374001	10/6/2021	I-131	0.00E+00	2.48E-01	5.41E-01	U
TM	15	558374001	10/6/2021	K-40	1.80E+03	9.56E+01	2.00E+01	
TM	15	558374001	10/6/2021	La-140	9.47E-01	9.65E-01	3.24E+00	U
TM	15	558374001	10/6/2021	Mn-54	7.50E-01	7.06E-01	2.08E+00	U
TM	15	558374001	10/6/2021	Nb-95	-5.96E-01	9.24E-01	2.12E+00	U
TM	15	558374001	10/6/2021	Pb-212	2.52E+00	2.35E+00	4.10E+00	U
TM	15	558374001	10/6/2021	Pb-214	5.18E-01	3.20E+00	4.53E+00	U
TM	15	558374001	10/6/2021	Ru-103	-1.39E+00	7.16E-01	1.91E+00	U
TM	15	558374001	10/6/2021	Ru-106	-8.88E+00	5.58E+00	1.66E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	558374001	10/6/2021	Sb-124	-2.10E+00	1.32E+00	3.51E+00	U
TM	15	558374001	10/6/2021	Sb-125	2.96E-01	1.56E+00	5.10E+00	U
TM	15	558374001	10/6/2021	Se-75	0.00E+00	1.60E+00	2.60E+00	U
TM	15	558374001	10/6/2021	Th-228	2.52E+00	2.35E+00	4.10E+00	U
TM	15	558374001	10/6/2021	Zn-65	-2.08E+00	1.69E+00	4.96E+00	U
TM	15	558374001	10/6/2021	Zr-95	-1.64E+00	1.15E+00	3.40E+00	U
TM	15	561297001	11/2/2021	Ac-228	-5.71E+00	4.72E+00	9.80E+00	U
TM	15	561297001	11/2/2021	Ag-108m	-8.04E-02	5.49E-01	1.75E+00	U
TM	15	561297001	11/2/2021	Ag-110m	6.58E-01	8.82E-01	2.92E+00	U
TM	15	561297001	11/2/2021	Ba-140	1.35E+00	3.57E+00	1.22E+01	U
TM	15	561297001	11/2/2021	Be-7	8.36E+00	7.39E+00	1.82E+01	U
TM	15	561297001	11/2/2021	Bi-214	2.31E+00	2.39E+00	3.99E+00	U
TM	15	561297001	11/2/2021	Ce-141	-1.90E+00	1.20E+00	3.68E+00	U
TM	15	561297001	11/2/2021	Ce-144	1.20E+00	3.93E+00	1.34E+01	U
TM	15	561297001	11/2/2021	Co-57	-1.60E-01	5.25E-01	1.78E+00	U
TM	15	561297001	11/2/2021	Co-58	8.59E-01	6.82E-01	2.24E+00	U
TM	15	561297001	11/2/2021	Co-60	-1.15E-01	7.09E-01	2.37E+00	U
TM	15	561297001	11/2/2021	Cr-51	-3.32E+00	6.29E+00	2.01E+01	U
TM	15	561297001	11/2/2021	Cs-134	8.47E-01	7.59E-01	2.50E+00	U
TM	15	561297001	11/2/2021	Cs-137	0.00E+00	9.94E-01	2.20E+00	U
TM	15	561297001	11/2/2021	Fe-59	-1.38E+00	1.62E+00	4.98E+00	U
TM	15	561297001	11/2/2021	I-131	-2.55E-02	2.30E-01	6.87E-01	U
TM	15	561297001	11/2/2021	K-40	1.96E+03	1.01E+02	2.00E+01	
TM	15	561297001	11/2/2021	La-140	-1.20E+00	1.10E+00	3.32E+00	U
TM	15	561297001	11/2/2021	Mn-54	-2.65E-01	6.34E-01	2.05E+00	U
TM	15	561297001	11/2/2021	Nb-95	1.04E+00	7.21E-01	2.34E+00	U
TM	15	561297001	11/2/2021	Pb-212	-1.28E+00	1.79E+00	4.46E+00	U
TM	15	561297001	11/2/2021	Pb-214	2.64E+00	2.49E+00	4.88E+00	U
TM	15	561297001	11/2/2021	Ru-103	-1.29E+00	9.49E-01	2.32E+00	U
TM	15	561297001	11/2/2021	Ru-106	9.92E-01	5.27E+00	1.78E+01	U
TM	15	561297001	11/2/2021	Sb-124	-1.22E+00	1.37E+00	4.16E+00	U
TM	15	561297001	11/2/2021	Sb-125	-8.74E-01	1.70E+00	5.33E+00	U
TM	15	561297001	11/2/2021	Se-75	3.37E-01	8.35E-01	2.76E+00	U
TM	15	561297001	11/2/2021	Th-228	-1.28E+00	1.79E+00	4.46E+00	U
TM	15	561297001	11/2/2021	Zn-65	-2.82E+00	1.75E+00	4.93E+00	U
TM	15	561297001	11/2/2021	Zr-95	-7.17E-01	1.23E+00	3.45E+00	U
TM	15	563892001	12/1/2021	Ac-228	-4.98E+00	4.76E+00	1.01E+01	U
TM	15	563892001	12/1/2021	Ag-108m	-4.61E-02	5.42E-01	1.78E+00	U
TM	15	563892001	12/1/2021	Ag-110m	-4.13E-01	1.06E+00	2.92E+00	U
TM	15	563892001	12/1/2021	Ba-140	-2.77E-01	4.47E+00	1.45E+01	U
TM	15	563892001	12/1/2021	Be-7	6.01E+00	5.75E+00	1.88E+01	U
TM	15	563892001	12/1/2021	Bi-214	4.77E-01	2.74E+00	4.07E+00	U
TM	15	563892001	12/1/2021	Ce-141	4.90E-01	2.54E+00	3.85E+00	U
TM	15	563892001	12/1/2021	Ce-144	-1.61E+00	4.39E+00	1.48E+01	U
TM	15	563892001	12/1/2021	Co-57	5.12E-01	5.77E-01	1.94E+00	U
TM	15	563892001	12/1/2021	Co-58	5.54E-01	7.31E-01	2.37E+00	U
TM	15	563892001	12/1/2021	Co-60	7.09E-01	7.67E-01	2.61E+00	U
TM	15	563892001	12/1/2021	Cr-51	-6.35E+00	7.28E+00	2.32E+01	U
TM	15	563892001	12/1/2021	Cs-134	-5.00E-01	9.54E-01	2.25E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	563892001	12/1/2021	Cs-137	4.68E+00	1.08E+00	1.99E+00	M
TM	15	563892001	12/1/2021	Fe-59	5.83E-01	1.75E+00	5.98E+00	U
TM	15	563892001	12/1/2021	I-131	-7.07E-02	1.46E-01	4.79E-01	U
TM	15	563892001	12/1/2021	K-40	1.87E+03	1.05E+02	2.06E+01	
TM	15	563892001	12/1/2021	La-140	3.28E-01	1.43E+00	4.25E+00	U
TM	15	563892001	12/1/2021	Mn-54	-6.66E-01	7.64E-01	2.03E+00	U
TM	15	563892001	12/1/2021	Nb-95	-2.07E+00	1.12E+00	2.28E+00	U
TM	15	563892001	12/1/2021	Pb-212	8.12E-01	2.17E+00	3.65E+00	U
TM	15	563892001	12/1/2021	Pb-214	0.00E+00	3.38E+00	5.19E+00	U
TM	15	563892001	12/1/2021	Ru-103	-1.15E+00	7.90E-01	2.32E+00	U
TM	15	563892001	12/1/2021	Ru-106	4.71E+00	5.46E+00	1.78E+01	U
TM	15	563892001	12/1/2021	Sb-124	-5.55E-01	1.28E+00	3.94E+00	U
TM	15	563892001	12/1/2021	Sb-125	-2.50E-01	1.65E+00	5.38E+00	U
TM	15	563892001	12/1/2021	Se-75	-4.30E-01	9.33E-01	2.74E+00	U
TM	15	563892001	12/1/2021	Th-228	8.12E-01	2.17E+00	3.65E+00	U
TM	15	563892001	12/1/2021	Zn-65	2.53E+00	1.69E+00	5.62E+00	U
TM	15	563892001	12/1/2021	Zr-95	-1.38E+00	1.32E+00	3.94E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	01	537618001	3/10/2021	Ac-228	-6.53E+00	3.89E+00	8.27E+00	U
WG	01	537618001	3/10/2021	Ag-108m	-6.91E-01	7.93E-01	1.84E+00	U
WG	01	537618001	3/10/2021	Ag-110m	4.73E-01	8.52E-01	2.77E+00	U
WG	01	537618001	3/10/2021	Ba-140	-1.29E+00	3.07E+00	9.98E+00	U
WG	01	537618001	3/10/2021	Be-7	-4.05E+00	4.92E+00	1.57E+01	U
WG	01	537618001	3/10/2021	BETA	5.23E+00	1.38E+00	3.48E+00	
WG	01	537618001	3/10/2021	Bi-214	8.50E+00	2.60E+00	3.74E+00	X(1)
WG	01	537618001	3/10/2021	Ce-141	-1.31E+00	1.13E+00	3.42E+00	U
WG	01	537618001	3/10/2021	Ce-144	-2.92E+00	3.93E+00	1.24E+01	U
WG	01	537618001	3/10/2021	Co-57	2.34E-01	4.89E-01	1.60E+00	U
WG	01	537618001	3/10/2021	Co-58	2.85E-01	5.81E-01	1.90E+00	U
WG	01	537618001	3/10/2021	Co-60	-3.85E-01	5.31E-01	1.65E+00	U
WG	01	537618001	3/10/2021	Cr-51	5.70E+00	5.83E+00	1.99E+01	U
WG	01	537618001	3/10/2021	Cs-134	-7.78E-01	7.18E-01	2.13E+00	U
WG	01	537618001	3/10/2021	Cs-137	-3.25E-01	6.12E-01	1.94E+00	U
WG	01	537618001	3/10/2021	Fe-59	-5.41E-01	1.16E+00	3.80E+00	U
WG	01	537618001	3/10/2021	H-3	-2.89E+01	8.17E+01	2.77E+02	U
WG	01	537618001	3/10/2021	I-131	-5.99E-01	1.10E+00	3.64E+00	U
WG	01	537618001	3/10/2021	K-40	0.00E+00	1.64E+01	1.70E+01	U
WG	01	537618001	3/10/2021	La-140	-3.05E-01	1.03E+00	3.31E+00	U
WG	01	537618001	3/10/2021	Mn-54	1.30E+00	6.98E-01	2.19E+00	U
WG	01	537618001	3/10/2021	Nb-95	-2.50E-01	5.80E-01	1.83E+00	U
WG	01	537618001	3/10/2021	Pb-212	1.84E+00	2.12E+00	3.65E+00	U
WG	01	537618001	3/10/2021	Pb-214	7.43E+00	3.27E+00	4.33E+00	X(1)
WG	01	537618001	3/10/2021	Ru-103	2.26E-02	6.77E-01	2.02E+00	U
WG	01	537618001	3/10/2021	Ru-106	-2.80E+00	5.86E+00	1.66E+01	U
WG	01	537618001	3/10/2021	Sb-124	-6.78E-01	1.82E+00	4.63E+00	U
WG	01	537618001	3/10/2021	Sb-125	1.54E+00	1.60E+00	5.41E+00	U
WG	01	537618001	3/10/2021	Se-75	5.41E-01	8.41E-01	2.65E+00	U
WG	01	537618001	3/10/2021	Th-228	1.84E+00	2.12E+00	3.65E+00	U
WG	01	537618001	3/10/2021	Zn-65	8.25E-01	1.35E+00	4.12E+00	U
WG	01	537618001	3/10/2021	Zr-95	-1.65E+00	1.15E+00	3.24E+00	U
WG	01	546353001	6/2/2021	Ac-228	0.00E+00	5.67E+00	7.33E+00	U
WG	01	546353001	6/2/2021	Ag-108m	-8.85E-01	7.62E-01	1.61E+00	U
WG	01	546353001	6/2/2021	Ag-110m	3.82E-01	6.49E-01	2.10E+00	U
WG	01	546353001	6/2/2021	Ba-140	1.99E+00	2.36E+00	7.86E+00	U
WG	01	546353001	6/2/2021	Be-7	6.22E+00	4.25E+00	1.39E+01	U
WG	01	546353001	6/2/2021	BETA	5.92E+00	1.40E+00	3.29E+00	
WG	01	546353001	6/2/2021	Bi-214	1.11E+01	2.48E+00	2.86E+00	X(1)
WG	01	546353001	6/2/2021	Ce-141	0.00E+00	1.69E+00	2.60E+00	U
WG	01	546353001	6/2/2021	Ce-144	5.10E+00	3.40E+00	1.06E+01	U
WG	01	546353001	6/2/2021	Co-57	1.91E-01	4.35E-01	1.42E+00	U
WG	01	546353001	6/2/2021	Co-58	6.49E-02	5.84E-01	1.68E+00	U
WG	01	546353001	6/2/2021	Co-60	-1.00E+00	5.45E-01	1.47E+00	U
WG	01	546353001	6/2/2021	Cr-51	1.15E+00	4.59E+00	1.57E+01	U
WG	01	546353001	6/2/2021	Cs-134	3.35E-01	5.48E-01	1.79E+00	U
WG	01	546353001	6/2/2021	Cs-137	6.26E-01	5.11E-01	1.67E+00	U
WG	01	546353001	6/2/2021	Fe-59	-1.29E+00	8.99E-01	2.65E+00	U
WG	01	546353001	6/2/2021	H-3	1.91E+02	1.16E+02	2.98E+02	U
WG	01	546353001	6/2/2021	I-131	7.90E-01	9.07E-01	3.07E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	01	546353001	6/2/2021	K-40	2.39E+00	1.10E+01	1.52E+01	U
WG	01	546353001	6/2/2021	La-140	-1.68E+00	8.92E-01	2.30E+00	U
WG	01	546353001	6/2/2021	Mn-54	-2.88E-01	4.95E-01	1.54E+00	U
WG	01	546353001	6/2/2021	Nb-95	-7.95E-01	5.50E-01	1.58E+00	U
WG	01	546353001	6/2/2021	Pb-212	-5.36E+00	2.24E+00	3.21E+00	U
WG	01	546353001	6/2/2021	Pb-214	0.00E+00	2.45E+00	4.97E+00	U
WG	01	546353001	6/2/2021	Ru-103	9.19E-02	4.95E-01	1.66E+00	U
WG	01	546353001	6/2/2021	Ru-106	-1.41E+00	3.99E+00	1.29E+01	U
WG	01	546353001	6/2/2021	Sb-124	-5.70E-01	9.67E-01	2.99E+00	U
WG	01	546353001	6/2/2021	Sb-125	-1.38E+00	1.26E+00	3.99E+00	U
WG	01	546353001	6/2/2021	Se-75	-6.92E-01	6.94E-01	2.05E+00	U
WG	01	546353001	6/2/2021	Th-228	-5.36E+00	2.24E+00	3.21E+00	U
WG	01	546353001	6/2/2021	Zn-65	-6.13E-01	1.06E+00	3.02E+00	U
WG	01	546353001	6/2/2021	Zr-95	6.60E-02	8.85E-01	2.87E+00	U
WG	01	555714001	9/9/2021	Ac-228	3.11E-01	3.93E+00	7.69E+00	U
WG	01	555714001	9/9/2021	Ag-108m	1.80E-01	4.24E-01	1.42E+00	U
WG	01	555714001	9/9/2021	Ag-110m	1.62E-01	6.15E-01	2.10E+00	U
WG	01	555714001	9/9/2021	Ba-140	-2.96E+00	3.23E+00	9.93E+00	U
WG	01	555714001	9/9/2021	Be-7	-7.53E+00	4.57E+00	1.30E+01	U
WG	01	555714001	9/9/2021	BETA	1.41E+01	2.03E+00	3.54E+00	
WG	01	555714001	9/9/2021	Bi-214	3.27E+00	2.32E+00	4.37E+00	U
WG	01	555714001	9/9/2021	Ce-141	-2.93E+00	1.50E+00	2.94E+00	U
WG	01	555714001	9/9/2021	Ce-144	-1.32E-01	3.21E+00	1.03E+01	U
WG	01	555714001	9/9/2021	Co-57	-9.74E-02	4.29E-01	1.38E+00	U
WG	01	555714001	9/9/2021	Co-58	1.69E-02	5.36E-01	1.61E+00	U
WG	01	555714001	9/9/2021	Co-60	3.11E-01	5.33E-01	1.78E+00	U
WG	01	555714001	9/9/2021	Cr-51	3.00E+00	5.13E+00	1.74E+01	U
WG	01	555714001	9/9/2021	Cs-134	2.73E-02	5.06E-01	1.72E+00	U
WG	01	555714001	9/9/2021	Cs-137	6.60E-01	5.76E-01	1.86E+00	U
WG	01	555714001	9/9/2021	Fe-59	3.06E-01	1.14E+00	3.82E+00	U
WG	01	555714001	9/9/2021	H-3	-5.16E+01	1.46E+02	4.88E+02	U
WG	01	555714001	9/9/2021	I-131	-9.78E-01	1.34E+00	4.33E+00	U
WG	01	555714001	9/9/2021	K-40	1.41E+01	1.33E+01	1.83E+01	U
WG	01	555714001	9/9/2021	La-140	-1.84E+00	1.36E+00	3.05E+00	U
WG	01	555714001	9/9/2021	Mn-54	-2.10E+00	9.75E-01	1.61E+00	U
WG	01	555714001	9/9/2021	Nb-95	-1.89E-01	5.83E-01	1.82E+00	U
WG	01	555714001	9/9/2021	Pb-212	-1.49E-01	1.62E+00	3.52E+00	U
WG	01	555714001	9/9/2021	Pb-214	0.00E+00	2.56E+00	4.50E+00	U
WG	01	555714001	9/9/2021	Ru-103	-1.18E+00	6.07E-01	1.63E+00	U
WG	01	555714001	9/9/2021	Ru-106	7.16E+00	4.98E+00	1.60E+01	U
WG	01	555714001	9/9/2021	Sb-124	-1.17E+00	1.32E+00	4.11E+00	U
WG	01	555714001	9/9/2021	Sb-125	3.61E-01	2.52E+00	4.53E+00	U
WG	01	555714001	9/9/2021	Se-75	2.47E-01	6.55E-01	2.25E+00	U
WG	01	555714001	9/9/2021	Th-228	-1.49E-01	1.62E+00	3.52E+00	U
WG	01	555714001	9/9/2021	Zn-65	1.39E+00	1.11E+00	3.73E+00	U
WG	01	555714001	9/9/2021	Zr-95	1.57E+00	1.09E+00	3.48E+00	U
WG	01	563876001	12/1/2021	Ac-228	1.48E-01	3.38E+00	4.82E+00	U
WG	01	563876001	12/1/2021	Ag-108m	-8.93E-02	2.88E-01	9.71E-01	U
WG	01	563876001	12/1/2021	Ag-110m	-3.15E-01	4.47E-01	1.39E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	01	563876001	12/1/2021	Ba-140	2.17E+00	4.45E+00	8.98E+00	U
WG	01	563876001	12/1/2021	Be-7	-6.35E+00	5.52E+00	9.96E+00	U
WG	01	563876001	12/1/2021	BETA	3.40E+00	1.30E+00	3.54E+00	U
WG	01	563876001	12/1/2021	Bi-214	0.00E+00	1.81E+00	2.03E+00	U
WG	01	563876001	12/1/2021	Ce-141	-1.70E+00	7.92E-01	2.14E+00	U
WG	01	563876001	12/1/2021	Ce-144	2.32E+00	2.24E+00	7.26E+00	U
WG	01	563876001	12/1/2021	Co-57	2.03E-01	2.78E-01	9.12E-01	U
WG	01	563876001	12/1/2021	Co-58	-2.56E-01	3.68E-01	1.16E+00	U
WG	01	563876001	12/1/2021	Co-60	-1.23E-01	3.27E-01	1.09E+00	U
WG	01	563876001	12/1/2021	Cr-51	-2.27E+00	3.95E+00	1.21E+01	U
WG	01	563876001	12/1/2021	Cs-134	1.78E-01	3.62E-01	1.20E+00	U
WG	01	563876001	12/1/2021	Cs-137	-2.36E-01	3.42E-01	1.10E+00	U
WG	01	563876001	12/1/2021	Fe-59	-5.10E-01	8.51E-01	2.31E+00	U
WG	01	563876001	12/1/2021	H-3	2.45E+02	1.57E+02	4.72E+02	U
WG	01	563876001	12/1/2021	I-131	-3.09E+00	1.44E+00	3.59E+00	U
WG	01	563876001	12/1/2021	K-40	7.09E-01	1.06E+01	1.03E+01	U
WG	01	563876001	12/1/2021	La-140	-5.18E-01	8.49E-01	2.73E+00	U
WG	01	563876001	12/1/2021	Mn-54	6.28E-02	3.34E-01	1.10E+00	U
WG	01	563876001	12/1/2021	Nb-95	2.52E-01	3.77E-01	1.26E+00	U
WG	01	563876001	12/1/2021	Pb-212	-4.89E-01	1.16E+00	3.15E+00	U
WG	01	563876001	12/1/2021	Pb-214	0.00E+00	1.87E+00	2.35E+00	U
WG	01	563876001	12/1/2021	Ru-103	8.41E-02	4.11E-01	1.26E+00	U
WG	01	563876001	12/1/2021	Ru-106	3.88E+00	3.08E+00	1.02E+01	U
WG	01	563876001	12/1/2021	Sb-124	-6.40E-01	8.07E-01	2.52E+00	U
WG	01	563876001	12/1/2021	Sb-125	-1.16E+00	8.44E-01	2.63E+00	U
WG	01	563876001	12/1/2021	Se-75	6.01E-01	4.86E-01	1.52E+00	U
WG	01	563876001	12/1/2021	Th-228	-4.89E-01	1.16E+00	3.15E+00	U
WG	01	563876001	12/1/2021	Zn-65	5.77E-01	7.32E-01	2.17E+00	U
WG	01	563876001	12/1/2021	Zr-95	6.78E-01	6.29E-01	2.09E+00	U
WG	13	537618002	3/10/2021	Ac-228	6.30E+00	4.92E+00	9.04E+00	U
WG	13	537618002	3/10/2021	Ag-108m	-1.16E-01	5.22E-01	1.75E+00	U
WG	13	537618002	3/10/2021	Ag-110m	2.27E-01	9.52E-01	2.78E+00	U
WG	13	537618002	3/10/2021	Ba-140	-9.38E+00	4.60E+00	9.57E+00	U
WG	13	537618002	3/10/2021	Be-7	3.38E+00	5.41E+00	1.84E+01	U
WG	13	537618002	3/10/2021	BETA	1.73E+00	1.12E+00	3.36E+00	U
WG	13	537618002	3/10/2021	Bi-214	2.77E+01	3.92E+00	3.65E+00	X(1)
WG	13	537618002	3/10/2021	Ce-141	-1.19E+00	1.30E+00	4.03E+00	U
WG	13	537618002	3/10/2021	Ce-144	-4.07E+00	4.75E+00	1.49E+01	U
WG	13	537618002	3/10/2021	Co-57	-3.38E-02	6.08E-01	1.99E+00	U
WG	13	537618002	3/10/2021	Co-58	5.51E-01	6.87E-01	2.07E+00	U
WG	13	537618002	3/10/2021	Co-60	2.09E+00	8.37E-01	2.66E+00	U
WG	13	537618002	3/10/2021	Cr-51	-2.91E+00	6.75E+00	2.06E+01	U
WG	13	537618002	3/10/2021	Cs-134	-2.15E-01	6.99E-01	2.23E+00	U
WG	13	537618002	3/10/2021	Cs-137	-2.85E-01	6.32E-01	2.03E+00	U
WG	13	537618002	3/10/2021	Fe-59	5.09E-01	1.36E+00	4.41E+00	U
WG	13	537618002	3/10/2021	H-3	6.88E+01	9.06E+01	2.80E+02	U
WG	13	537618002	3/10/2021	I-131	2.03E+00	1.25E+00	4.14E+00	U
WG	13	537618002	3/10/2021	K-40	0.00E+00	1.98E+01	1.89E+01	U
WG	13	537618002	3/10/2021	La-140	-5.04E-01	1.13E+00	3.63E+00	U
WG	13	537618002	3/10/2021	Mn-54	-1.43E-01	6.23E-01	1.99E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	13	537618002	3/10/2021	Nb-95	-4.43E-01	7.00E-01	2.19E+00	U
WG	13	537618002	3/10/2021	Pb-212	5.57E+00	2.46E+00	3.95E+00	X(1)
WG	13	537618002	3/10/2021	Pb-214	2.07E+01	3.64E+00	4.50E+00	X(1)
WG	13	537618002	3/10/2021	Ru-103	2.89E-01	6.19E-01	2.10E+00	U
WG	13	537618002	3/10/2021	Ru-106	-3.79E+00	5.20E+00	1.64E+01	U
WG	13	537618002	3/10/2021	Sb-124	1.42E+00	1.44E+00	4.98E+00	U
WG	13	537618002	3/10/2021	Sb-125	-7.71E-01	1.69E+00	5.60E+00	U
WG	13	537618002	3/10/2021	Se-75	-5.01E-01	9.25E-01	2.84E+00	U
WG	13	537618002	3/10/2021	Th-228	5.57E+00	2.46E+00	3.95E+00	X(1)
WG	13	537618002	3/10/2021	Zn-65	1.72E+00	1.39E+00	4.20E+00	U
WG	13	537618002	3/10/2021	Zr-95	-2.16E+00	1.16E+00	3.00E+00	U
WG	13	546353002	6/2/2021	Ac-228	2.16E+00	4.83E+00	7.97E+00	U
WG	13	546353002	6/2/2021	Ag-108m	4.21E-01	4.63E-01	1.49E+00	U
WG	13	546353002	6/2/2021	Ag-110m	-5.62E-01	6.97E-01	2.16E+00	U
WG	13	546353002	6/2/2021	Ba-140	2.24E+00	2.62E+00	8.93E+00	U
WG	13	546353002	6/2/2021	Be-7	7.21E+00	4.90E+00	1.54E+01	U
WG	13	546353002	6/2/2021	BETA	2.87E+00	1.14E+00	3.08E+00	U
WG	13	546353002	6/2/2021	Bi-214	2.27E+01	3.01E+00	3.65E+00	X(1)
WG	13	546353002	6/2/2021	Ce-141	1.73E+00	1.11E+00	3.28E+00	U
WG	13	546353002	6/2/2021	Ce-144	-2.70E+00	3.52E+00	1.17E+01	U
WG	13	546353002	6/2/2021	Co-57	-1.15E-01	4.97E-01	1.53E+00	U
WG	13	546353002	6/2/2021	Co-58	1.53E-01	5.41E-01	1.80E+00	U
WG	13	546353002	6/2/2021	Co-60	1.88E+00	1.04E+00	2.00E+00	U
WG	13	546353002	6/2/2021	Cr-51	-5.81E-02	5.19E+00	1.69E+01	U
WG	13	546353002	6/2/2021	Cs-134	-1.91E-01	5.16E-01	1.67E+00	U
WG	13	546353002	6/2/2021	Cs-137	-4.71E-01	5.49E-01	1.75E+00	U
WG	13	546353002	6/2/2021	Fe-59	-2.06E+00	1.86E+00	3.65E+00	U
WG	13	546353002	6/2/2021	H-3	2.14E+02	1.15E+02	2.86E+02	U
WG	13	546353002	6/2/2021	I-131	-9.82E-01	1.03E+00	3.17E+00	U
WG	13	546353002	6/2/2021	K-40	-1.04E+01	9.30E+00	2.49E+01	U
WG	13	546353002	6/2/2021	La-140	6.12E-01	1.03E+00	3.46E+00	U
WG	13	546353002	6/2/2021	Mn-54	-6.96E-01	5.28E-01	1.56E+00	U
WG	13	546353002	6/2/2021	Nb-95	-1.30E-01	8.22E-01	2.13E+00	U
WG	13	546353002	6/2/2021	Pb-212	0.00E+00	2.10E+00	3.16E+00	U
WG	13	546353002	6/2/2021	Pb-214	2.28E+01	3.40E+00	3.75E+00	X(1)
WG	13	546353002	6/2/2021	Ru-103	-5.01E-01	5.80E-01	1.75E+00	U
WG	13	546353002	6/2/2021	Ru-106	-2.83E+00	4.41E+00	1.43E+01	U
WG	13	546353002	6/2/2021	Sb-124	1.68E+00	1.29E+00	4.27E+00	U
WG	13	546353002	6/2/2021	Sb-125	-6.21E-01	1.54E+00	4.29E+00	U
WG	13	546353002	6/2/2021	Se-75	-4.32E-01	6.92E-01	2.23E+00	U
WG	13	546353002	6/2/2021	Th-228	0.00E+00	2.10E+00	3.16E+00	U
WG	13	546353002	6/2/2021	Zn-65	7.75E-01	1.15E+00	3.34E+00	U
WG	13	546353002	6/2/2021	Zr-95	2.44E+00	1.08E+00	3.33E+00	U
WG	13	555714002	9/9/2021	Ac-228	2.53E+00	4.71E+00	8.46E+00	U
WG	13	555714002	9/9/2021	Ag-108m	-3.28E-02	4.60E-01	1.48E+00	U
WG	13	555714002	9/9/2021	Ag-110m	-8.18E-02	6.75E-01	2.21E+00	U
WG	13	555714002	9/9/2021	Ba-140	-4.95E+00	3.70E+00	1.06E+01	U
WG	13	555714002	9/9/2021	Be-7	-2.70E-01	4.65E+00	1.49E+01	U
WG	13	555714002	9/9/2021	BETA	1.72E+01	2.25E+00	3.09E+00	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	13	555714002	9/9/2021	Bi-214	0.00E+00	2.62E+00	4.42E+00	U
WG	13	555714002	9/9/2021	Ce-141	9.09E-01	1.19E+00	3.43E+00	U
WG	13	555714002	9/9/2021	Ce-144	-3.12E+00	3.69E+00	1.11E+01	U
WG	13	555714002	9/9/2021	Co-57	2.50E-01	4.72E-01	1.49E+00	U
WG	13	555714002	9/9/2021	Co-58	6.69E-01	5.52E-01	1.84E+00	U
WG	13	555714002	9/9/2021	Co-60	-5.90E-01	5.06E-01	1.52E+00	U
WG	13	555714002	9/9/2021	Cr-51	-6.90E+00	5.71E+00	1.75E+01	U
WG	13	555714002	9/9/2021	Cs-134	1.04E+00	6.16E-01	2.01E+00	U
WG	13	555714002	9/9/2021	Cs-137	1.41E-01	4.89E-01	1.66E+00	U
WG	13	555714002	9/9/2021	Fe-59	-4.12E-01	1.18E+00	3.74E+00	U
WG	13	555714002	9/9/2021	H-3	1.63E+02	1.59E+02	4.90E+02	U
WG	13	555714002	9/9/2021	I-131	7.63E-01	1.51E+00	4.96E+00	U
WG	13	555714002	9/9/2021	K-40	0.00E+00	1.49E+01	1.70E+01	U
WG	13	555714002	9/9/2021	La-140	1.03E+00	1.17E+00	3.97E+00	U
WG	13	555714002	9/9/2021	Mn-54	1.10E+00	7.90E-01	1.54E+00	U
WG	13	555714002	9/9/2021	Nb-95	-1.60E+00	1.04E+00	1.80E+00	U
WG	13	555714002	9/9/2021	Pb-212	-5.73E+00	2.50E+00	4.10E+00	U
WG	13	555714002	9/9/2021	Pb-214	-6.87E-01	1.98E+00	4.14E+00	U
WG	13	555714002	9/9/2021	Ru-103	-1.15E+00	6.65E-01	1.82E+00	U
WG	13	555714002	9/9/2021	Ru-106	-7.90E+00	4.76E+00	1.39E+01	U
WG	13	555714002	9/9/2021	Sb-124	-2.73E+00	1.80E+00	4.13E+00	U
WG	13	555714002	9/9/2021	Sb-125	-2.15E+00	1.55E+00	4.52E+00	U
WG	13	555714002	9/9/2021	Se-75	-5.48E-01	7.02E-01	2.26E+00	U
WG	13	555714002	9/9/2021	Th-228	-5.73E+00	2.50E+00	4.10E+00	U
WG	13	555714002	9/9/2021	Zn-65	-3.57E-01	1.23E+00	3.40E+00	U
WG	13	555714002	9/9/2021	Zr-95	-1.27E+00	9.95E-01	3.00E+00	U
WG	13	563876002	12/1/2021	Ac-228	-1.06E+00	3.81E+00	6.11E+00	U
WG	13	563876002	12/1/2021	Ag-108m	-4.17E-02	3.61E-01	1.17E+00	U
WG	13	563876002	12/1/2021	Ag-110m	-2.91E-01	5.84E-01	1.92E+00	U
WG	13	563876002	12/1/2021	Ba-140	2.77E+00	3.29E+00	1.06E+01	U
WG	13	563876002	12/1/2021	Be-7	-2.36E+00	4.19E+00	1.32E+01	U
WG	13	563876002	12/1/2021	BETA	2.55E+00	1.15E+00	3.22E+00	U
WG	13	563876002	12/1/2021	Bi-214	2.35E+00	2.32E+00	2.65E+00	U
WG	13	563876002	12/1/2021	Ce-141	-1.02E+00	9.22E-01	2.96E+00	U
WG	13	563876002	12/1/2021	Ce-144	6.86E+00	3.69E+00	9.26E+00	U
WG	13	563876002	12/1/2021	Co-57	-3.80E-01	3.82E-01	1.24E+00	U
WG	13	563876002	12/1/2021	Co-58	-3.37E-01	4.64E-01	1.51E+00	U
WG	13	563876002	12/1/2021	Co-60	4.96E-01	6.36E-01	1.53E+00	U
WG	13	563876002	12/1/2021	Cr-51	1.10E+01	8.65E+00	1.57E+01	U
WG	13	563876002	12/1/2021	Cs-134	-2.34E-01	4.46E-01	1.47E+00	U
WG	13	563876002	12/1/2021	Cs-137	3.77E-01	4.51E-01	1.45E+00	U
WG	13	563876002	12/1/2021	Fe-59	5.42E-01	9.58E-01	3.22E+00	U
WG	13	563876002	12/1/2021	H-3	-4.18E+01	1.45E+02	4.84E+02	U
WG	13	563876002	12/1/2021	I-131	-1.16E+00	1.57E+00	4.95E+00	U
WG	13	563876002	12/1/2021	K-40	0.00E+00	1.23E+01	1.37E+01	U
WG	13	563876002	12/1/2021	La-140	-1.34E+00	1.18E+00	3.46E+00	U
WG	13	563876002	12/1/2021	Mn-54	3.78E-01	4.22E-01	1.43E+00	U
WG	13	563876002	12/1/2021	Nb-95	9.41E-01	5.68E-01	1.46E+00	U
WG	13	563876002	12/1/2021	Pb-212	-1.82E+00	1.63E+00	2.96E+00	U
WG	13	563876002	12/1/2021	Pb-214	-3.37E+00	1.91E+00	3.42E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	13	563876002	12/1/2021	Ru-103	-1.41E-01	5.30E-01	1.69E+00	U
WG	13	563876002	12/1/2021	Ru-106	5.71E-02	3.88E+00	1.24E+01	U
WG	13	563876002	12/1/2021	Sb-124	8.40E-01	1.20E+00	3.97E+00	U
WG	13	563876002	12/1/2021	Sb-125	-9.75E-01	1.17E+00	3.66E+00	U
WG	13	563876002	12/1/2021	Se-75	4.17E-01	5.95E-01	1.97E+00	U
WG	13	563876002	12/1/2021	Th-228	-1.82E+00	1.63E+00	2.96E+00	U
WG	13	563876002	12/1/2021	Zn-65	5.17E-01	1.00E+00	2.98E+00	U
WG	13	563876002	12/1/2021	Zr-95	5.37E-01	8.00E-01	2.73E+00	U
WG	14	537618003	3/10/2021	Ac-228	3.43E+00	2.34E+00	7.66E+00	U
WG	14	537618003	3/10/2021	Ag-108m	3.96E-01	5.38E-01	1.85E+00	U
WG	14	537618003	3/10/2021	Ag-110m	-1.28E-01	8.12E-01	2.64E+00	U
WG	14	537618003	3/10/2021	Ba-140	-1.02E+00	2.74E+00	9.09E+00	U
WG	14	537618003	3/10/2021	Be-7	-9.20E+00	5.17E+00	1.50E+01	U
WG	14	537618003	3/10/2021	BETA	2.64E+00	1.19E+00	3.42E+00	U
WG	14	537618003	3/10/2021	Bi-214	1.68E+02	8.78E+00	3.67E+00	X(1)
WG	14	537618003	3/10/2021	Ce-141	-6.02E+00	2.05E+00	3.64E+00	U
WG	14	537618003	3/10/2021	Ce-144	-5.51E+00	4.41E+00	1.35E+01	U
WG	14	537618003	3/10/2021	Co-57	-4.59E-01	5.56E-01	1.77E+00	U
WG	14	537618003	3/10/2021	Co-58	1.44E+00	9.34E-01	1.71E+00	U
WG	14	537618003	3/10/2021	Co-60	1.46E-01	6.27E-01	2.02E+00	U
WG	14	537618003	3/10/2021	Cr-51	-1.75E+00	7.37E+00	1.90E+01	U
WG	14	537618003	3/10/2021	Cs-134	7.81E-01	6.20E-01	2.06E+00	U
WG	14	537618003	3/10/2021	Cs-137	1.21E+00	6.43E-01	1.92E+00	U
WG	14	537618003	3/10/2021	Fe-59	-1.76E+00	1.22E+00	3.37E+00	U
WG	14	537618003	3/10/2021	H-3	1.07E+02	9.10E+01	2.71E+02	U
WG	14	537618003	3/10/2021	I-131	-4.43E-01	1.13E+00	3.47E+00	U
WG	14	537618003	3/10/2021	K-40	9.12E+00	1.34E+01	1.70E+01	U
WG	14	537618003	3/10/2021	La-140	-2.31E+00	1.20E+00	3.20E+00	U
WG	14	537618003	3/10/2021	Mn-54	-1.05E+00	6.97E-01	1.74E+00	U
WG	14	537618003	3/10/2021	Nb-95	7.10E-01	6.48E-01	1.97E+00	U
WG	14	537618003	3/10/2021	Pb-212	2.50E+00	2.03E+00	3.55E+00	U
WG	14	537618003	3/10/2021	Pb-214	1.66E+02	8.57E+00	4.50E+00	X(1)
WG	14	537618003	3/10/2021	Ru-103	6.68E-02	5.98E-01	2.04E+00	U
WG	14	537618003	3/10/2021	Ru-106	1.09E+01	5.53E+00	1.65E+01	U
WG	14	537618003	3/10/2021	Sb-124	-4.28E-02	1.27E+00	4.24E+00	U
WG	14	537618003	3/10/2021	Sb-125	1.55E+00	1.53E+00	5.21E+00	U
WG	14	537618003	3/10/2021	Se-75	2.59E-01	8.06E-01	2.57E+00	U
WG	14	537618003	3/10/2021	Th-228	2.50E+00	2.03E+00	3.55E+00	U
WG	14	537618003	3/10/2021	Zn-65	9.48E-01	1.26E+00	3.76E+00	U
WG	14	537618003	3/10/2021	Zr-95	1.56E-01	1.05E+00	3.50E+00	U
WG	14	546353003	6/2/2021	Ac-228	-5.41E+00	3.72E+00	7.75E+00	U
WG	14	546353003	6/2/2021	Ag-108m	4.07E-01	4.11E-01	1.37E+00	U
WG	14	546353003	6/2/2021	Ag-110m	5.32E-01	6.45E-01	2.21E+00	U
WG	14	546353003	6/2/2021	Ba-140	-7.63E-01	2.44E+00	7.91E+00	U
WG	14	546353003	6/2/2021	Be-7	-1.94E+00	4.07E+00	1.32E+01	U
WG	14	546353003	6/2/2021	BETA	3.65E+00	1.12E+00	2.75E+00	M
WG	14	546353003	6/2/2021	Bi-214	5.22E+01	3.59E+00	2.82E+00	X(1)
WG	14	546353003	6/2/2021	Ce-141	0.00E+00	1.78E+00	2.72E+00	U
WG	14	546353003	6/2/2021	Ce-144	1.20E+00	3.19E+00	1.04E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	14	546353003	6/2/2021	Co-57	5.23E-02	4.10E-01	1.34E+00	U
WG	14	546353003	6/2/2021	Co-58	-4.26E-01	4.65E-01	1.38E+00	U
WG	14	546353003	6/2/2021	Co-60	3.28E-01	4.81E-01	1.61E+00	U
WG	14	546353003	6/2/2021	Cr-51	-7.04E+00	4.60E+00	1.41E+01	U
WG	14	546353003	6/2/2021	Cs-134	5.88E-01	5.12E-01	1.65E+00	U
WG	14	546353003	6/2/2021	Cs-137	1.35E+00	9.84E-01	1.37E+00	U
WG	14	546353003	6/2/2021	Fe-59	1.78E+00	1.06E+00	3.46E+00	U
WG	14	546353003	6/2/2021	H-3	-4.44E+00	8.18E+01	2.71E+02	U
WG	14	546353003	6/2/2021	I-131	1.22E+00	9.48E-01	3.15E+00	U
WG	14	546353003	6/2/2021	K-40	-1.41E+01	1.06E+01	2.32E+01	U
WG	14	546353003	6/2/2021	La-140	2.26E-02	9.09E-01	2.94E+00	U
WG	14	546353003	6/2/2021	Mn-54	1.12E-01	4.54E-01	1.45E+00	U
WG	14	546353003	6/2/2021	Nb-95	-5.22E-01	7.97E-01	1.69E+00	U
WG	14	546353003	6/2/2021	Pb-212	2.66E+00	1.58E+00	2.92E+00	U
WG	14	546353003	6/2/2021	Pb-214	5.09E+01	3.70E+00	3.34E+00	X(1)
WG	14	546353003	6/2/2021	Ru-103	-8.54E-02	5.48E-01	1.61E+00	U
WG	14	546353003	6/2/2021	Ru-106	7.26E+00	4.34E+00	1.38E+01	U
WG	14	546353003	6/2/2021	Sb-124	1.73E-01	1.20E+00	3.90E+00	U
WG	14	546353003	6/2/2021	Sb-125	6.53E-01	1.23E+00	4.15E+00	U
WG	14	546353003	6/2/2021	Se-75	1.11E+00	7.20E-01	2.18E+00	U
WG	14	546353003	6/2/2021	Th-228	2.66E+00	1.58E+00	2.92E+00	U
WG	14	546353003	6/2/2021	Zn-65	-1.12E+00	1.05E+00	2.77E+00	U
WG	14	546353003	6/2/2021	Zr-95	-1.82E-01	1.33E+00	2.72E+00	U
WG	14	555714003	9/9/2021	Ac-228	2.98E+00	3.94E+00	7.77E+00	U
WG	14	555714003	9/9/2021	Ag-108m	-2.77E-01	4.50E-01	1.44E+00	U
WG	14	555714003	9/9/2021	Ag-110m	-3.86E-01	6.75E-01	2.19E+00	U
WG	14	555714003	9/9/2021	Ba-140	-2.87E-01	3.31E+00	1.07E+01	U
WG	14	555714003	9/9/2021	Be-7	-1.19E-01	4.82E+00	1.57E+01	U
WG	14	555714003	9/9/2021	BETA	3.05E+00	9.12E-01	2.08E+00	M
WG	14	555714003	9/9/2021	Bi-214	7.40E+01	4.21E+00	3.23E+00	X(1)
WG	14	555714003	9/9/2021	Ce-141	7.39E-01	1.15E+00	3.39E+00	U
WG	14	555714003	9/9/2021	Ce-144	2.76E+00	3.72E+00	1.19E+01	U
WG	14	555714003	9/9/2021	Co-57	3.60E-02	4.73E-01	1.53E+00	U
WG	14	555714003	9/9/2021	Co-58	-1.64E-01	5.28E-01	1.75E+00	U
WG	14	555714003	9/9/2021	Co-60	4.42E-01	5.66E-01	1.86E+00	U
WG	14	555714003	9/9/2021	Cr-51	1.36E+00	5.43E+00	1.83E+01	U
WG	14	555714003	9/9/2021	Cs-134	3.47E-01	5.25E-01	1.79E+00	U
WG	14	555714003	9/9/2021	Cs-137	-7.06E-01	5.54E-01	1.60E+00	U
WG	14	555714003	9/9/2021	Fe-59	2.18E-02	1.08E+00	3.53E+00	U
WG	14	555714003	9/9/2021	H-3	3.04E+02	1.69E+02	4.95E+02	U
WG	14	555714003	9/9/2021	I-131	-3.60E+00	1.64E+00	4.40E+00	U
WG	14	555714003	9/9/2021	K-40	-7.84E+00	1.10E+01	2.48E+01	U
WG	14	555714003	9/9/2021	La-140	-2.64E-01	1.12E+00	3.71E+00	U
WG	14	555714003	9/9/2021	Mn-54	-8.41E-01	5.23E-01	1.53E+00	U
WG	14	555714003	9/9/2021	Nb-95	1.72E+00	7.90E-01	1.80E+00	U
WG	14	555714003	9/9/2021	Pb-212	-2.30E+00	1.68E+00	3.55E+00	U
WG	14	555714003	9/9/2021	Pb-214	7.52E+01	5.22E+00	3.65E+00	X(1)
WG	14	555714003	9/9/2021	Ru-103	-6.91E-01	6.46E-01	1.98E+00	U
WG	14	555714003	9/9/2021	Ru-106	-4.68E+00	5.11E+00	1.36E+01	U
WG	14	555714003	9/9/2021	Sb-124	-6.46E-01	1.25E+00	4.01E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	14	555714003	9/9/2021	Sb-125	1.14E+00	1.34E+00	4.44E+00	U
WG	14	555714003	9/9/2021	Se-75	-9.04E-01	1.14E+00	2.28E+00	U
WG	14	555714003	9/9/2021	Th-228	-2.30E+00	1.68E+00	3.55E+00	U
WG	14	555714003	9/9/2021	Zn-65	1.06E+00	1.10E+00	3.25E+00	U
WG	14	555714003	9/9/2021	Zr-95	0.00E+00	2.53E+00	3.24E+00	U
WG	14	563876003	12/1/2021	Ac-228	-2.79E+00	3.39E+00	6.16E+00	U
WG	14	563876003	12/1/2021	Ag-108m	-1.54E-01	3.30E-01	1.09E+00	U
WG	14	563876003	12/1/2021	Ag-110m	-1.33E-01	5.76E-01	1.82E+00	U
WG	14	563876003	12/1/2021	Ba-140	-2.20E+00	3.23E+00	1.03E+01	U
WG	14	563876003	12/1/2021	Be-7	1.76E+00	3.63E+00	1.22E+01	U
WG	14	563876003	12/1/2021	BETA	2.10E+00	1.06E+00	2.95E+00	U
WG	14	563876003	12/1/2021	Bi-214	2.76E+01	2.78E+00	2.54E+00	X(1)
WG	14	563876003	12/1/2021	Ce-141	2.03E-01	8.02E-01	2.38E+00	U
WG	14	563876003	12/1/2021	Ce-144	-1.32E+00	2.60E+00	7.59E+00	U
WG	14	563876003	12/1/2021	Co-57	1.40E-01	3.00E-01	9.70E-01	U
WG	14	563876003	12/1/2021	Co-58	2.14E-01	4.74E-01	1.54E+00	U
WG	14	563876003	12/1/2021	Co-60	1.64E+00	7.84E-01	1.66E+00	U
WG	14	563876003	12/1/2021	Cr-51	-1.83E+00	4.39E+00	1.48E+01	U
WG	14	563876003	12/1/2021	Cs-134	4.65E-01	4.60E-01	1.49E+00	U
WG	14	563876003	12/1/2021	Cs-137	2.19E-01	4.78E-01	1.41E+00	U
WG	14	563876003	12/1/2021	Fe-59	-8.24E-02	9.57E-01	3.21E+00	U
WG	14	563876003	12/1/2021	H-3	2.59E+02	1.66E+02	4.98E+02	U
WG	14	563876003	12/1/2021	I-131	-2.93E+00	1.63E+00	4.79E+00	U
WG	14	563876003	12/1/2021	K-40	-9.98E+00	9.75E+00	1.87E+01	U
WG	14	563876003	12/1/2021	La-140	7.47E-01	1.15E+00	3.85E+00	U
WG	14	563876003	12/1/2021	Mn-54	-3.71E-01	4.40E-01	1.34E+00	U
WG	14	563876003	12/1/2021	Nb-95	1.15E+00	6.15E-01	1.72E+00	U
WG	14	563876003	12/1/2021	Pb-212	3.20E+00	1.58E+00	2.03E+00	X(1)
WG	14	563876003	12/1/2021	Pb-214	2.70E+01	2.82E+00	5.44E+00	X(1)
WG	14	563876003	12/1/2021	Ru-103	-4.34E-01	5.29E-01	1.50E+00	U
WG	14	563876003	12/1/2021	Ru-106	-3.46E+00	3.84E+00	1.19E+01	U
WG	14	563876003	12/1/2021	Sb-124	1.03E+00	1.16E+00	3.85E+00	U
WG	14	563876003	12/1/2021	Sb-125	-1.89E+00	1.11E+00	3.25E+00	U
WG	14	563876003	12/1/2021	Se-75	5.14E-01	6.16E-01	1.70E+00	U
WG	14	563876003	12/1/2021	Th-228	3.20E+00	1.58E+00	2.03E+00	X(1)
WG	14	563876003	12/1/2021	Zn-65	2.88E-01	9.53E-01	2.87E+00	U
WG	14	563876003	12/1/2021	Zr-95	-1.42E+00	8.42E-01	2.32E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	532364001	1/12/2021	Ac-228	-1.30E+00	3.51E+00	7.50E+00	U
WS	01	532364001	1/12/2021	Ag-108m	-5.37E-01	4.25E-01	1.33E+00	U
WS	01	532364001	1/12/2021	Ag-110m	8.68E-01	6.99E-01	2.31E+00	U
WS	01	532364001	1/12/2021	Ba-140	7.80E-01	2.22E+00	7.57E+00	U
WS	01	532364001	1/12/2021	Be-7	6.16E-01	3.91E+00	1.33E+01	U
WS	01	532364001	1/12/2021	Bi-214	0.00E+00	2.45E+00	2.99E+00	U
WS	01	532364001	1/12/2021	Ce-141	1.55E+00	1.19E+00	2.50E+00	U
WS	01	532364001	1/12/2021	Ce-144	-2.40E+00	3.07E+00	9.79E+00	U
WS	01	532364001	1/12/2021	Co-57	-2.55E-01	4.04E-01	1.31E+00	U
WS	01	532364001	1/12/2021	Co-58	-1.40E-01	4.91E-01	1.58E+00	U
WS	01	532364001	1/12/2021	Co-60	-1.08E-02	5.63E-01	1.90E+00	U
WS	01	532364001	1/12/2021	Cr-51	-3.17E+00	4.53E+00	1.37E+01	U
WS	01	532364001	1/12/2021	Cs-134	-2.02E-01	5.33E-01	1.71E+00	U
WS	01	532364001	1/12/2021	Cs-137	2.35E-01	4.90E-01	1.65E+00	U
WS	01	532364001	1/12/2021	Fe-59	2.56E+00	1.48E+00	3.64E+00	U
WS	01	532364001	1/12/2021	I-131	-8.66E-01	9.97E-01	2.95E+00	U
WS	01	532364001	1/12/2021	K-40	3.09E+02	2.53E+01	1.71E+01	
WS	01	532364001	1/12/2021	La-140	9.36E-01	1.38E+00	2.53E+00	U
WS	01	532364001	1/12/2021	Mn-54	1.15E+00	8.28E-01	1.59E+00	U
WS	01	532364001	1/12/2021	Nb-95	3.56E-01	4.56E-01	1.53E+00	U
WS	01	532364001	1/12/2021	Pb-212	-1.24E+00	1.90E+00	3.60E+00	U
WS	01	532364001	1/12/2021	Pb-214	1.69E+00	2.18E+00	4.31E+00	U
WS	01	532364001	1/12/2021	Ru-103	-8.33E-02	4.53E-01	1.52E+00	U
WS	01	532364001	1/12/2021	Ru-106	-1.91E+00	4.24E+00	1.38E+01	U
WS	01	532364001	1/12/2021	Sb-124	-5.71E-01	1.76E+00	4.13E+00	U
WS	01	532364001	1/12/2021	Sb-125	1.93E+00	1.36E+00	4.57E+00	U
WS	01	532364001	1/12/2021	Se-75	1.23E+00	8.21E-01	2.11E+00	U
WS	01	532364001	1/12/2021	Th-228	-1.24E+00	1.90E+00	3.60E+00	U
WS	01	532364001	1/12/2021	Zn-65	1.35E+00	1.19E+00	3.74E+00	U
WS	01	532364001	1/12/2021	Zr-95	-4.38E-01	8.61E-01	2.74E+00	U
WS	01	535172001	2/10/2021	Ac-228	1.67E+00	3.79E+00	9.60E+00	U
WS	01	535172001	2/10/2021	Ag-108m	-7.46E-02	5.78E-01	1.84E+00	U
WS	01	535172001	2/10/2021	Ag-110m	-1.24E-01	8.18E-01	2.72E+00	U
WS	01	535172001	2/10/2021	Ba-140	2.46E+00	3.54E+00	1.14E+01	U
WS	01	535172001	2/10/2021	Be-7	-4.01E+00	5.56E+00	1.70E+01	U
WS	01	535172001	2/10/2021	Bi-214	0.00E+00	2.79E+00	5.01E+00	U
WS	01	535172001	2/10/2021	Ce-141	6.75E-01	1.29E+00	3.85E+00	U
WS	01	535172001	2/10/2021	Ce-144	1.70E+00	4.30E+00	1.43E+01	U
WS	01	535172001	2/10/2021	Co-57	4.33E-01	5.94E-01	1.97E+00	U
WS	01	535172001	2/10/2021	Co-58	-7.26E-01	6.50E-01	2.00E+00	U
WS	01	535172001	2/10/2021	Co-60	-3.14E-01	6.66E-01	2.12E+00	U
WS	01	535172001	2/10/2021	Cr-51	-4.99E-01	5.68E+00	1.83E+01	U
WS	01	535172001	2/10/2021	Cs-134	-3.95E-01	7.84E-01	2.24E+00	U
WS	01	535172001	2/10/2021	Cs-137	4.22E-01	6.17E-01	2.12E+00	U
WS	01	535172001	2/10/2021	Fe-59	-4.02E-01	1.76E+00	4.54E+00	U
WS	01	535172001	2/10/2021	I-131	0.00E+00	1.97E+00	3.49E+00	U
WS	01	535172001	2/10/2021	K-40	3.29E+02	2.53E+01	1.85E+01	
WS	01	535172001	2/10/2021	La-140	1.34E-02	9.55E-01	3.11E+00	U
WS	01	535172001	2/10/2021	Mn-54	-2.06E-01	6.39E-01	2.11E+00	U
WS	01	535172001	2/10/2021	Nb-95	1.08E+00	6.71E-01	2.24E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	535172001	2/10/2021	Pb-212	8.37E-02	1.70E+00	4.31E+00	U
WS	01	535172001	2/10/2021	Pb-214	4.73E+00	2.94E+00	5.33E+00	U
WS	01	535172001	2/10/2021	Ru-103	-2.70E-01	6.64E-01	2.07E+00	U
WS	01	535172001	2/10/2021	Ru-106	5.29E+00	5.69E+00	1.95E+01	U
WS	01	535172001	2/10/2021	Sb-124	-1.80E+00	1.56E+00	4.42E+00	U
WS	01	535172001	2/10/2021	Sb-125	-2.39E-01	1.77E+00	5.64E+00	U
WS	01	535172001	2/10/2021	Se-75	-1.57E-01	8.55E-01	2.77E+00	U
WS	01	535172001	2/10/2021	Th-228	8.37E-02	1.70E+00	4.31E+00	U
WS	01	535172001	2/10/2021	Zn-65	-2.21E+00	1.43E+00	4.02E+00	U
WS	01	535172001	2/10/2021	Zr-95	-9.14E-01	1.83E+00	4.12E+00	U
WS	01	538500001	3/17/2021	Ac-228	2.39E+00	4.32E+00	7.31E+00	U
WS	01	538500001	3/17/2021	Ag-108m	-1.59E-01	3.82E-01	1.26E+00	U
WS	01	538500001	3/17/2021	Ag-110m	5.10E-02	6.05E-01	2.06E+00	U
WS	01	538500001	3/17/2021	Ba-140	4.37E+00	3.00E+00	7.28E+00	U
WS	01	538500001	3/17/2021	Be-7	-4.53E+00	3.98E+00	1.23E+01	U
WS	01	538500001	3/17/2021	Bi-214	-2.73E+00	1.91E+00	3.63E+00	U
WS	01	538500001	3/17/2021	Ce-141	-1.75E+00	8.74E-01	2.39E+00	U
WS	01	538500001	3/17/2021	Ce-144	-6.65E-01	2.85E+00	9.23E+00	U
WS	01	538500001	3/17/2021	Co-57	-5.32E-01	4.02E-01	1.22E+00	U
WS	01	538500001	3/17/2021	Co-58	-7.29E-01	5.97E-01	1.40E+00	U
WS	01	538500001	3/17/2021	Co-60	-6.67E-01	5.06E-01	1.47E+00	U
WS	01	538500001	3/17/2021	Cr-51	-2.99E+00	3.80E+00	1.25E+01	U
WS	01	538500001	3/17/2021	Cs-134	1.83E+00	6.99E-01	1.84E+00	U
WS	01	538500001	3/17/2021	Cs-137	-5.99E-01	8.84E-01	2.05E+00	U
WS	01	538500001	3/17/2021	Fe-59	4.16E-01	9.91E-01	3.34E+00	U
WS	01	538500001	3/17/2021	I-131	-1.60E+00	8.02E-01	2.26E+00	U
WS	01	538500001	3/17/2021	K-40	3.38E+02	2.51E+01	1.51E+01	
WS	01	538500001	3/17/2021	La-140	-6.05E-01	7.67E-01	2.32E+00	U
WS	01	538500001	3/17/2021	Mn-54	1.14E-01	4.76E-01	1.36E+00	U
WS	01	538500001	3/17/2021	Nb-95	-4.84E-01	6.82E-01	1.64E+00	U
WS	01	538500001	3/17/2021	Pb-212	9.35E-01	1.86E+00	2.58E+00	U
WS	01	538500001	3/17/2021	Pb-214	4.78E-01	1.52E+00	3.83E+00	U
WS	01	538500001	3/17/2021	Ru-103	-1.49E-02	4.92E-01	1.45E+00	U
WS	01	538500001	3/17/2021	Ru-106	6.89E+00	4.03E+00	1.28E+01	U
WS	01	538500001	3/17/2021	Sb-124	3.10E+00	1.99E+00	3.84E+00	U
WS	01	538500001	3/17/2021	Sb-125	1.80E-01	1.13E+00	3.80E+00	U
WS	01	538500001	3/17/2021	Se-75	6.82E-01	6.37E-01	1.98E+00	U
WS	01	538500001	3/17/2021	Th-228	9.35E-01	1.86E+00	2.58E+00	U
WS	01	538500001	3/17/2021	Zn-65	2.53E+00	1.19E+00	3.73E+00	U
WS	01	538500001	3/17/2021	Zr-95	2.01E-01	7.81E-01	2.52E+00	U
WS	01	543399001	3/17/2021	H-3	-1.34E+02	1.42E+02	4.92E+02	U
WS	01	541846001	4/19/2021	Ac-228	-2.56E+00	3.65E+00	7.68E+00	U
WS	01	541846001	4/19/2021	Ag-108m	-2.97E-01	4.53E-01	1.46E+00	U
WS	01	541846001	4/19/2021	Ag-110m	-4.56E-01	6.68E-01	2.02E+00	U
WS	01	541846001	4/19/2021	Ba-140	3.37E+00	2.93E+00	8.81E+00	U
WS	01	541846001	4/19/2021	Be-7	5.16E+00	4.61E+00	1.53E+01	U
WS	01	541846001	4/19/2021	Bi-214	-1.95E+00	2.20E+00	4.34E+00	U
WS	01	541846001	4/19/2021	Ce-141	-2.74E+00	1.77E+00	3.06E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	541846001	4/19/2021	Ce-144	-2.20E+00	3.74E+00	1.16E+01	U
WS	01	541846001	4/19/2021	Co-57	1.54E-01	4.75E-01	1.52E+00	U
WS	01	541846001	4/19/2021	Co-58	-1.39E-01	4.97E-01	1.57E+00	U
WS	01	541846001	4/19/2021	Co-60	-5.22E-01	5.04E-01	1.52E+00	U
WS	01	541846001	4/19/2021	Cr-51	-7.80E+00	5.57E+00	1.63E+01	U
WS	01	541846001	4/19/2021	Cs-134	9.97E-02	5.60E-01	1.81E+00	U
WS	01	541846001	4/19/2021	Cs-137	1.20E-04	5.12E-01	1.66E+00	U
WS	01	541846001	4/19/2021	Fe-59	-4.02E-01	1.17E+00	3.39E+00	U
WS	01	541846001	4/19/2021	I-131	3.08E+00	1.21E+00	3.56E+00	U
WS	01	541846001	4/19/2021	K-40	3.60E+02	2.85E+01	1.58E+01	
WS	01	541846001	4/19/2021	La-140	-1.14E+00	9.92E-01	2.89E+00	U
WS	01	541846001	4/19/2021	Mn-54	2.50E-01	5.01E-01	1.63E+00	U
WS	01	541846001	4/19/2021	Nb-95	-3.05E-01	8.56E-01	1.71E+00	U
WS	01	541846001	4/19/2021	Pb-212	8.15E-01	2.24E+00	3.16E+00	U
WS	01	541846001	4/19/2021	Pb-214	2.50E+00	3.10E+00	4.32E+00	U
WS	01	541846001	4/19/2021	Ru-103	1.67E-01	5.44E-01	1.81E+00	U
WS	01	541846001	4/19/2021	Ru-106	7.38E+00	5.36E+00	1.58E+01	U
WS	01	541846001	4/19/2021	Sb-124	-2.03E-01	1.30E+00	4.21E+00	U
WS	01	541846001	4/19/2021	Sb-125	1.11E+00	1.33E+00	4.47E+00	U
WS	01	541846001	4/19/2021	Se-75	7.64E-01	6.93E-01	2.34E+00	U
WS	01	541846001	4/19/2021	Th-228	8.15E-01	2.24E+00	3.16E+00	U
WS	01	541846001	4/19/2021	Zn-65	-3.75E-01	1.03E+00	3.39E+00	U
WS	01	541846001	4/19/2021	Zr-95	-1.28E+00	9.22E-01	2.60E+00	U
WS	01	544777001	5/11/2021	Ac-228	-6.27E-01	3.40E+00	7.93E+00	U
WS	01	544777001	5/11/2021	Ag-108m	-1.14E-01	4.57E-01	1.45E+00	U
WS	01	544777001	5/11/2021	Ag-110m	-2.56E-01	6.90E-01	2.24E+00	U
WS	01	544777001	5/11/2021	Ba-140	1.02E+00	2.92E+00	9.37E+00	U
WS	01	544777001	5/11/2021	Be-7	1.23E+01	6.20E+00	1.43E+01	U
WS	01	544777001	5/11/2021	Bi-214	-4.96E-01	1.94E+00	4.38E+00	U
WS	01	544777001	5/11/2021	Ce-141	-1.94E-01	1.04E+00	3.14E+00	U
WS	01	544777001	5/11/2021	Ce-144	1.96E+00	3.57E+00	1.22E+01	U
WS	01	544777001	5/11/2021	Co-57	1.26E+00	6.88E-01	1.50E+00	U
WS	01	544777001	5/11/2021	Co-58	1.11E-01	5.03E-01	1.69E+00	U
WS	01	544777001	5/11/2021	Co-60	-5.84E-02	5.68E-01	1.81E+00	U
WS	01	544777001	5/11/2021	Cr-51	-1.87E+00	5.44E+00	1.67E+01	U
WS	01	544777001	5/11/2021	Cs-134	-1.01E+00	6.17E-01	1.76E+00	U
WS	01	544777001	5/11/2021	Cs-137	-1.44E+00	7.82E-01	1.69E+00	U
WS	01	544777001	5/11/2021	Fe-59	1.63E-01	1.08E+00	3.53E+00	U
WS	01	544777001	5/11/2021	I-131	3.17E-02	1.05E+00	3.40E+00	U
WS	01	544777001	5/11/2021	K-40	3.32E+02	2.50E+01	1.70E+01	
WS	01	544777001	5/11/2021	La-140	-5.22E-01	8.96E-01	2.87E+00	U
WS	01	544777001	5/11/2021	Mn-54	7.85E-01	4.71E-01	1.73E+00	U
WS	01	544777001	5/11/2021	Nb-95	2.51E-01	5.12E-01	1.73E+00	U
WS	01	544777001	5/11/2021	Pb-212	-1.50E+00	1.48E+00	3.67E+00	U
WS	01	544777001	5/11/2021	Pb-214	-1.27E+00	1.91E+00	4.28E+00	U
WS	01	544777001	5/11/2021	Ru-103	-1.13E+00	6.55E-01	1.78E+00	U
WS	01	544777001	5/11/2021	Ru-106	2.51E+00	4.75E+00	1.62E+01	U
WS	01	544777001	5/11/2021	Sb-124	1.66E+00	1.27E+00	4.38E+00	U
WS	01	544777001	5/11/2021	Sb-125	-1.26E+00	1.93E+00	4.70E+00	U
WS	01	544777001	5/11/2021	Se-75	8.47E-02	7.67E-01	2.54E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	544777001	5/11/2021	Th-228	-1.50E+00	1.48E+00	3.67E+00	U
WS	01	544777001	5/11/2021	Zn-65	1.86E-01	1.09E+00	3.56E+00	U
WS	01	544777001	5/11/2021	Zr-95	-1.51E+00	9.95E-01	2.90E+00	U
WS	01	548321001	6/15/2021	Ac-228	-5.30E+00	3.73E+00	7.11E+00	U
WS	01	548321001	6/15/2021	Ag-108m	3.67E-01	4.03E-01	1.35E+00	U
WS	01	548321001	6/15/2021	Ag-110m	8.17E-01	6.79E-01	2.19E+00	U
WS	01	548321001	6/15/2021	Ba-140	-4.67E-01	3.75E+00	1.23E+01	U
WS	01	548321001	6/15/2021	Be-7	-1.58E+00	4.63E+00	1.35E+01	U
WS	01	548321001	6/15/2021	Bi-214	1.63E+00	2.44E+00	3.88E+00	U
WS	01	548321001	6/15/2021	Ce-141	2.38E+00	1.30E+00	3.61E+00	U
WS	01	548321001	6/15/2021	Ce-144	4.48E+00	3.63E+00	1.13E+01	U
WS	01	548321001	6/15/2021	Co-57	-4.92E-01	4.46E-01	1.34E+00	U
WS	01	548321001	6/15/2021	Co-58	1.51E-01	5.27E-01	1.62E+00	U
WS	01	548321001	6/15/2021	Co-60	-1.65E-01	4.34E-01	1.41E+00	U
WS	01	548321001	6/15/2021	Cr-51	9.50E-01	4.97E+00	1.69E+01	U
WS	01	548321001	6/15/2021	Cs-134	4.55E-01	4.66E-01	1.52E+00	U
WS	01	548321001	6/15/2021	Cs-137	-2.99E-01	4.53E-01	1.42E+00	U
WS	01	548321001	6/15/2021	Fe-59	-8.01E-01	1.33E+00	3.79E+00	U
WS	01	548321001	6/15/2021	I-131	-7.31E-01	1.77E+00	5.86E+00	U
WS	01	548321001	6/15/2021	K-40	3.20E+02	2.65E+01	1.47E+01	
WS	01	548321001	6/15/2021	La-140	-1.86E-02	1.26E+00	4.11E+00	U
WS	01	548321001	6/15/2021	Mn-54	2.87E-01	4.86E-01	1.58E+00	U
WS	01	548321001	6/15/2021	Nb-95	7.53E-01	1.24E+00	1.61E+00	U
WS	01	548321001	6/15/2021	Pb-212	2.06E-01	1.87E+00	3.68E+00	U
WS	01	548321001	6/15/2021	Pb-214	2.64E+00	2.12E+00	3.74E+00	U
WS	01	548321001	6/15/2021	Ru-103	-4.46E-01	5.46E-01	1.72E+00	U
WS	01	548321001	6/15/2021	Ru-106	-6.23E+00	4.42E+00	1.28E+01	U
WS	01	548321001	6/15/2021	Sb-124	3.62E-01	1.23E+00	4.09E+00	U
WS	01	548321001	6/15/2021	Sb-125	3.04E-01	1.20E+00	4.01E+00	U
WS	01	548321001	6/15/2021	Se-75	4.70E-01	6.63E-01	2.26E+00	U
WS	01	548321001	6/15/2021	Th-228	2.06E-01	1.87E+00	3.68E+00	U
WS	01	548321001	6/15/2021	Zn-65	-4.93E-01	1.08E+00	3.54E+00	U
WS	01	548321001	6/15/2021	Zr-95	1.49E+00	9.11E-01	2.92E+00	U
WS	01	552141001	6/15/2021	H-3	-2.84E+02	1.76E+02	6.19E+02	U
WS	01	550012001	7/13/2021	Ac-228	-2.59E+00	2.99E+00	7.52E+00	U
WS	01	550012001	7/13/2021	Ag-108m	1.49E-01	4.13E-01	1.42E+00	U
WS	01	550012001	7/13/2021	Ag-110m	-3.94E-02	7.13E-01	2.06E+00	U
WS	01	550012001	7/13/2021	Ba-140	-3.48E-01	2.44E+00	8.16E+00	U
WS	01	550012001	7/13/2021	Be-7	2.04E+00	3.99E+00	1.37E+01	U
WS	01	550012001	7/13/2021	Bi-214	2.94E+00	2.21E+00	4.03E+00	U
WS	01	550012001	7/13/2021	Ce-141	-9.19E-01	9.00E-01	2.81E+00	U
WS	01	550012001	7/13/2021	Ce-144	-4.40E-01	3.26E+00	1.08E+01	U
WS	01	550012001	7/13/2021	Co-57	-5.62E-01	4.35E-01	1.33E+00	U
WS	01	550012001	7/13/2021	Co-58	-3.78E-01	4.96E-01	1.53E+00	U
WS	01	550012001	7/13/2021	Co-60	0.00E+00	6.11E-01	1.48E+00	U
WS	01	550012001	7/13/2021	Cr-51	-1.02E+01	5.46E+00	1.42E+01	U
WS	01	550012001	7/13/2021	Cs-134	3.33E-01	5.06E-01	1.70E+00	U
WS	01	550012001	7/13/2021	Cs-137	3.00E-01	5.12E-01	1.73E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	550012001	7/13/2021	Fe-59	-1.13E+00	1.17E+00	3.40E+00	U
WS	01	550012001	7/13/2021	I-131	-6.65E-01	9.00E-01	2.67E+00	U
WS	01	550012001	7/13/2021	K-40	3.36E+02	2.72E+01	1.66E+01	
WS	01	550012001	7/13/2021	La-140	-1.08E+00	8.64E-01	2.47E+00	U
WS	01	550012001	7/13/2021	Mn-54	4.01E-01	5.59E-01	1.69E+00	U
WS	01	550012001	7/13/2021	Nb-95	1.21E-01	4.72E-01	1.57E+00	U
WS	01	550012001	7/13/2021	Pb-212	1.26E+00	1.61E+00	3.69E+00	U
WS	01	550012001	7/13/2021	Pb-214	-1.94E+00	1.73E+00	3.67E+00	U
WS	01	550012001	7/13/2021	Ru-103	-5.41E-01	5.56E-01	1.57E+00	U
WS	01	550012001	7/13/2021	Ru-106	9.47E+00	5.02E+00	1.63E+01	U
WS	01	550012001	7/13/2021	Sb-124	-1.55E+00	1.21E+00	3.38E+00	U
WS	01	550012001	7/13/2021	Sb-125	-1.38E+00	1.97E+00	4.22E+00	U
WS	01	550012001	7/13/2021	Se-75	-5.90E-01	7.08E-01	2.15E+00	U
WS	01	550012001	7/13/2021	Th-228	1.26E+00	1.61E+00	3.69E+00	U
WS	01	550012001	7/13/2021	Zn-65	8.45E-01	1.18E+00	3.88E+00	U
WS	01	550012001	7/13/2021	Zr-95	-7.23E-01	9.13E-01	2.83E+00	U
WS	01	552735001	8/10/2021	Ac-228	-4.26E+00	4.57E+00	7.50E+00	U
WS	01	552735001	8/10/2021	Ag-108m	-1.83E-01	4.30E-01	1.39E+00	U
WS	01	552735001	8/10/2021	Ag-110m	9.69E-02	6.48E-01	2.08E+00	U
WS	01	552735001	8/10/2021	Ba-140	-2.61E+00	2.85E+00	8.82E+00	U
WS	01	552735001	8/10/2021	Be-7	-3.75E-02	4.18E+00	1.37E+01	U
WS	01	552735001	8/10/2021	Bi-214	-2.15E+00	1.96E+00	3.43E+00	U
WS	01	552735001	8/10/2021	Ce-141	6.15E-02	1.27E+00	3.09E+00	U
WS	01	552735001	8/10/2021	Ce-144	8.88E-01	3.25E+00	1.10E+01	U
WS	01	552735001	8/10/2021	Co-57	-1.08E-01	4.33E-01	1.46E+00	U
WS	01	552735001	8/10/2021	Co-58	-2.97E-01	4.97E-01	1.54E+00	U
WS	01	552735001	8/10/2021	Co-60	-2.43E-01	5.09E-01	1.67E+00	U
WS	01	552735001	8/10/2021	Cr-51	8.42E+00	5.18E+00	1.64E+01	U
WS	01	552735001	8/10/2021	Cs-134	-2.12E+00	1.03E+00	1.67E+00	U
WS	01	552735001	8/10/2021	Cs-137	2.44E-01	8.05E-01	1.67E+00	U
WS	01	552735001	8/10/2021	Fe-59	-2.88E-01	1.11E+00	3.28E+00	U
WS	01	552735001	8/10/2021	I-131	-1.13E+00	1.13E+00	3.55E+00	U
WS	01	552735001	8/10/2021	K-40	2.84E+02	2.43E+01	1.59E+01	
WS	01	552735001	8/10/2021	La-140	-2.43E-01	9.82E-01	3.22E+00	U
WS	01	552735001	8/10/2021	Mn-54	-1.33E-01	4.77E-01	1.50E+00	U
WS	01	552735001	8/10/2021	Nb-95	-1.07E-01	4.93E-01	1.57E+00	U
WS	01	552735001	8/10/2021	Pb-212	-1.45E+00	1.90E+00	3.41E+00	U
WS	01	552735001	8/10/2021	Pb-214	3.13E+00	1.31E+00	3.79E+00	U
WS	01	552735001	8/10/2021	Ru-103	-8.27E-01	5.45E-01	1.59E+00	U
WS	01	552735001	8/10/2021	Ru-106	-2.15E-01	4.13E+00	1.34E+01	U
WS	01	552735001	8/10/2021	Sb-124	-1.22E+00	1.09E+00	3.23E+00	U
WS	01	552735001	8/10/2021	Sb-125	-1.56E+00	1.28E+00	3.88E+00	U
WS	01	552735001	8/10/2021	Se-75	4.86E-01	6.27E-01	2.09E+00	U
WS	01	552735001	8/10/2021	Th-228	-1.45E+00	1.90E+00	3.41E+00	U
WS	01	552735001	8/10/2021	Zn-65	-1.36E+00	1.08E+00	3.21E+00	U
WS	01	552735001	8/10/2021	Zr-95	2.87E-01	8.98E-01	2.91E+00	U
WS	01	556375001	9/13/2021	Ac-228	4.85E+00	4.41E+00	6.11E+00	U
WS	01	556375001	9/13/2021	Ag-108m	-3.64E-01	5.43E-01	1.48E+00	U
WS	01	556375001	9/13/2021	Ag-110m	3.10E-02	7.04E-01	2.31E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	556375001	9/13/2021	Ba-140	-5.50E+00	3.38E+00	1.01E+01	U
WS	01	556375001	9/13/2021	Be-7	3.71E+00	4.91E+00	1.57E+01	U
WS	01	556375001	9/13/2021	Bi-214	0.00E+00	2.47E+00	3.37E+00	U
WS	01	556375001	9/13/2021	Ce-141	3.18E-01	1.08E+00	3.31E+00	U
WS	01	556375001	9/13/2021	Ce-144	2.98E-01	3.44E+00	1.18E+01	U
WS	01	556375001	9/13/2021	Co-57	2.00E-01	4.73E-01	1.62E+00	U
WS	01	556375001	9/13/2021	Co-58	-4.19E-01	5.66E-01	1.79E+00	U
WS	01	556375001	9/13/2021	Co-60	3.57E-01	5.86E-01	1.99E+00	U
WS	01	556375001	9/13/2021	Cr-51	5.08E+00	5.56E+00	1.81E+01	U
WS	01	556375001	9/13/2021	Cs-134	4.52E-01	5.88E-01	1.96E+00	U
WS	01	556375001	9/13/2021	Cs-137	8.07E-01	5.59E-01	1.85E+00	U
WS	01	556375001	9/13/2021	Fe-59	-1.48E+00	1.33E+00	3.94E+00	U
WS	01	556375001	9/13/2021	I-131	2.44E-01	1.29E+00	4.19E+00	U
WS	01	556375001	9/13/2021	K-40	3.33E+02	2.83E+01	1.60E+01	
WS	01	556375001	9/13/2021	La-140	1.05E+00	1.11E+00	3.76E+00	U
WS	01	556375001	9/13/2021	Mn-54	-2.05E-01	5.14E-01	1.66E+00	U
WS	01	556375001	9/13/2021	Nb-95	1.44E+00	6.59E-01	2.03E+00	U
WS	01	556375001	9/13/2021	Pb-212	1.92E+00	2.17E+00	4.06E+00	U
WS	01	556375001	9/13/2021	Pb-214	0.00E+00	2.62E+00	4.54E+00	U
WS	01	556375001	9/13/2021	Ru-103	-2.11E-01	6.23E-01	1.95E+00	U
WS	01	556375001	9/13/2021	Ru-106	8.55E+00	5.31E+00	1.73E+01	U
WS	01	556375001	9/13/2021	Sb-124	2.13E-01	1.28E+00	4.25E+00	U
WS	01	556375001	9/13/2021	Sb-125	-1.72E+00	1.50E+00	4.46E+00	U
WS	01	556375001	9/13/2021	Se-75	1.29E+00	9.03E-01	2.33E+00	U
WS	01	556375001	9/13/2021	Th-228	1.92E+00	2.17E+00	4.06E+00	U
WS	01	556375001	9/13/2021	Zn-65	-5.58E-01	1.41E+00	3.83E+00	U
WS	01	556375001	9/13/2021	Zr-95	2.69E-01	9.60E-01	3.21E+00	U
WS	01	560827001	9/13/2021	H-3	-5.02E+01	2.28E+02	7.61E+02	U
WS	01	558886001	10/12/2021	Ac-228	-3.72E+00	3.69E+00	9.08E+00	U
WS	01	558886001	10/12/2021	Ag-108m	-2.39E-01	5.54E-01	1.81E+00	U
WS	01	558886001	10/12/2021	Ag-110m	-9.61E-01	9.76E-01	2.83E+00	U
WS	01	558886001	10/12/2021	Ba-140	1.14E+00	2.88E+00	9.67E+00	U
WS	01	558886001	10/12/2021	Be-7	-1.23E+01	6.14E+00	1.62E+01	U
WS	01	558886001	10/12/2021	Bi-214	2.50E+00	3.56E+00	4.86E+00	U
WS	01	558886001	10/12/2021	Ce-141	-3.15E+00	1.31E+00	3.21E+00	U
WS	01	558886001	10/12/2021	Ce-144	5.90E-01	3.81E+00	1.23E+01	U
WS	01	558886001	10/12/2021	Co-57	-8.90E-01	5.97E-01	1.52E+00	U
WS	01	558886001	10/12/2021	Co-58	8.81E-03	5.91E-01	1.90E+00	U
WS	01	558886001	10/12/2021	Co-60	-2.64E-01	8.39E-01	2.37E+00	U
WS	01	558886001	10/12/2021	Cr-51	3.15E+00	5.49E+00	1.89E+01	U
WS	01	558886001	10/12/2021	Cs-134	1.23E+00	7.83E-01	2.57E+00	U
WS	01	558886001	10/12/2021	Cs-137	3.27E-01	7.44E-01	2.46E+00	U
WS	01	558886001	10/12/2021	Fe-59	-2.54E+00	1.57E+00	4.41E+00	U
WS	01	558886001	10/12/2021	I-131	-2.82E-01	1.05E+00	3.52E+00	U
WS	01	558886001	10/12/2021	K-40	3.43E+02	2.96E+01	2.48E+01	
WS	01	558886001	10/12/2021	La-140	-3.62E-01	1.17E+00	3.71E+00	U
WS	01	558886001	10/12/2021	Mn-54	7.81E-01	7.03E-01	2.32E+00	U
WS	01	558886001	10/12/2021	Nb-95	2.90E-01	7.28E-01	2.39E+00	U
WS	01	558886001	10/12/2021	Pb-212	2.90E+00	2.27E+00	3.58E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	558886001	10/12/2021	Pb-214	3.26E+00	2.98E+00	5.92E+00	U
WS	01	558886001	10/12/2021	Ru-103	-5.21E-01	6.90E-01	2.18E+00	U
WS	01	558886001	10/12/2021	Ru-106	1.95E+00	5.28E+00	1.75E+01	U
WS	01	558886001	10/12/2021	Sb-124	-1.72E+00	1.62E+00	4.54E+00	U
WS	01	558886001	10/12/2021	Sb-125	-1.09E+00	1.78E+00	5.76E+00	U
WS	01	558886001	10/12/2021	Se-75	7.29E-01	7.73E-01	2.66E+00	U
WS	01	558886001	10/12/2021	Th-228	2.90E+00	2.27E+00	3.58E+00	U
WS	01	558886001	10/12/2021	Zn-65	2.34E+00	1.74E+00	5.42E+00	U
WS	01	558886001	10/12/2021	Zr-95	4.01E-01	1.30E+00	4.24E+00	U
WS	01	563415001	11/17/2021	Ac-228	-4.93E+00	3.48E+00	7.16E+00	U
WS	01	563415001	11/17/2021	Ag-108m	8.20E-01	9.91E-01	1.66E+00	U
WS	01	563415001	11/17/2021	Ag-110m	-7.60E-01	7.69E-01	2.29E+00	U
WS	01	563415001	11/17/2021	Ba-140	-8.68E-01	4.05E+00	1.33E+01	U
WS	01	563415001	11/17/2021	Be-7	8.47E+00	5.61E+00	1.75E+01	U
WS	01	563415001	11/17/2021	Bi-214	4.73E-01	2.43E+00	3.19E+00	U
WS	01	563415001	11/17/2021	Ce-141	4.44E-01	1.17E+00	3.50E+00	U
WS	01	563415001	11/17/2021	Ce-144	-2.83E+00	3.40E+00	1.07E+01	U
WS	01	563415001	11/17/2021	Co-57	3.40E-01	4.76E-01	1.44E+00	U
WS	01	563415001	11/17/2021	Co-58	-5.50E-01	6.16E-01	1.64E+00	U
WS	01	563415001	11/17/2021	Co-60	9.22E-01	5.97E-01	1.80E+00	U
WS	01	563415001	11/17/2021	Cr-51	1.65E+00	5.93E+00	2.04E+01	U
WS	01	563415001	11/17/2021	Cs-134	8.78E-01	5.99E-01	1.91E+00	U
WS	01	563415001	11/17/2021	Cs-137	5.31E-01	5.27E-01	1.73E+00	U
WS	01	563415001	11/17/2021	Fe-59	2.03E-01	1.09E+00	3.70E+00	U
WS	01	563415001	11/17/2021	I-131	2.21E-01	2.02E+00	6.86E+00	U
WS	01	563415001	11/17/2021	K-40	3.46E+02	2.64E+01	1.65E+01	
WS	01	563415001	11/17/2021	La-140	1.70E+00	1.33E+00	4.47E+00	U
WS	01	563415001	11/17/2021	Mn-54	-3.34E-01	5.21E-01	1.61E+00	U
WS	01	563415001	11/17/2021	Nb-95	-3.75E+00	1.41E+00	1.82E+00	U
WS	01	563415001	11/17/2021	Pb-212	-1.45E+00	1.58E+00	3.54E+00	U
WS	01	563415001	11/17/2021	Pb-214	3.09E+00	2.83E+00	4.28E+00	U
WS	01	563415001	11/17/2021	Ru-103	-1.20E+00	6.80E-01	1.96E+00	U
WS	01	563415001	11/17/2021	Ru-106	7.95E+00	4.51E+00	1.43E+01	U
WS	01	563415001	11/17/2021	Sb-124	1.62E+00	1.31E+00	4.40E+00	U
WS	01	563415001	11/17/2021	Sb-125	-1.22E+00	1.34E+00	4.29E+00	U
WS	01	563415001	11/17/2021	Se-75	-5.92E-01	7.92E-01	2.40E+00	U
WS	01	563415001	11/17/2021	Th-228	-1.45E+00	1.58E+00	3.54E+00	U
WS	01	563415001	11/17/2021	Zn-65	-6.38E-01	1.19E+00	3.41E+00	U
WS	01	563415001	11/17/2021	Zr-95	-1.42E-01	9.78E-01	3.14E+00	U
WS	01	565202001	12/8/2021	Ac-228	-4.19E+00	4.79E+00	7.47E+00	U
WS	01	565202001	12/8/2021	Ag-108m	1.18E-01	4.11E-01	1.34E+00	U
WS	01	565202001	12/8/2021	Ag-110m	-4.49E-01	6.68E-01	2.13E+00	U
WS	01	565202001	12/8/2021	Ba-140	0.00E+00	8.17E+00	1.62E+01	UI
WS	01	565202001	12/8/2021	Be-7	5.79E+00	4.82E+00	1.54E+01	U
WS	01	565202001	12/8/2021	Bi-214	-3.24E+00	1.86E+00	3.45E+00	U
WS	01	565202001	12/8/2021	Ce-141	0.00E+00	2.32E+00	3.41E+00	U
WS	01	565202001	12/8/2021	Ce-144	3.91E+00	3.30E+00	1.01E+01	U
WS	01	565202001	12/8/2021	Co-57	-2.91E-01	4.36E-01	1.34E+00	U
WS	01	565202001	12/8/2021	Co-58	-5.14E-01	5.18E-01	1.61E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	565202001	12/8/2021	Co-60	2.90E-01	4.99E-01	1.70E+00	U
WS	01	565202001	12/8/2021	Cr-51	-8.86E+00	1.15E+01	2.06E+01	U
WS	01	565202001	12/8/2021	Cs-134	-3.48E-01	5.12E-01	1.64E+00	U
WS	01	565202001	12/8/2021	Cs-137	-3.84E-02	4.46E-01	1.50E+00	U
WS	01	565202001	12/8/2021	Fe-59	1.39E+00	1.30E+00	4.23E+00	U
WS	01	565202001	12/8/2021	I-131	3.63E+00	2.92E+00	9.39E+00	U
WS	01	565202001	12/8/2021	K-40	3.36E+02	2.40E+01	1.53E+01	
WS	01	565202001	12/8/2021	La-140	-4.68E-01	1.67E+00	5.46E+00	U
WS	01	565202001	12/8/2021	Mn-54	1.36E-01	4.50E-01	1.50E+00	U
WS	01	565202001	12/8/2021	Nb-95	3.68E-01	5.51E-01	1.85E+00	U
WS	01	565202001	12/8/2021	Pb-212	3.02E+00	2.14E+00	3.61E+00	U
WS	01	565202001	12/8/2021	Pb-214	3.17E-01	2.20E+00	3.43E+00	U
WS	01	565202001	12/8/2021	Ru-103	6.92E-03	6.86E-01	1.95E+00	U
WS	01	565202001	12/8/2021	Ru-106	-1.80E+00	4.03E+00	1.34E+01	U
WS	01	565202001	12/8/2021	Sb-124	-4.49E-01	1.56E+00	4.36E+00	U
WS	01	565202001	12/8/2021	Sb-125	1.18E+00	1.21E+00	3.91E+00	U
WS	01	565202001	12/8/2021	Se-75	-1.69E-01	6.34E-01	2.10E+00	U
WS	01	565202001	12/8/2021	Th-228	3.02E+00	2.14E+00	3.61E+00	U
WS	01	565202001	12/8/2021	Zn-65	1.15E+00	1.52E+00	3.69E+00	U
WS	01	565202001	12/8/2021	Zr-95	-2.38E-02	8.94E-01	2.98E+00	U
WS	01	568410001	12/8/2021	H-3	-1.10E+02	1.87E+02	6.33E+02	U
WS	10	544777004	5/13/2021	Ac-228	1.46E+00	5.81E+00	1.17E+01	U
WS	10	544777004	5/13/2021	Ag-108m	-4.76E-01	5.79E-01	1.79E+00	U
WS	10	544777004	5/13/2021	Ag-110m	5.54E-01	1.21E+00	2.98E+00	U
WS	10	544777004	5/13/2021	Ba-140	2.39E+00	3.17E+00	1.04E+01	U
WS	10	544777004	5/13/2021	Be-7	-1.50E+01	8.50E+00	1.80E+01	U
WS	10	544777004	5/13/2021	Bi-214	7.33E-01	3.11E+00	4.24E+00	U
WS	10	544777004	5/13/2021	Ce-141	-2.98E+00	1.54E+00	3.06E+00	U
WS	10	544777004	5/13/2021	Ce-144	7.56E-01	3.61E+00	1.14E+01	U
WS	10	544777004	5/13/2021	Co-57	5.93E-01	5.07E-01	1.58E+00	U
WS	10	544777004	5/13/2021	Co-58	-1.01E-01	7.63E-01	2.23E+00	U
WS	10	544777004	5/13/2021	Co-60	-1.02E-01	7.24E-01	2.31E+00	U
WS	10	544777004	5/13/2021	Cr-51	-2.12E+00	5.46E+00	1.78E+01	U
WS	10	544777004	5/13/2021	Cs-134	5.63E-01	1.27E+00	2.57E+00	U
WS	10	544777004	5/13/2021	Cs-137	-4.04E-01	7.79E-01	2.25E+00	U
WS	10	544777004	5/13/2021	Fe-59	1.97E+00	1.52E+00	5.11E+00	U
WS	10	544777004	5/13/2021	I-131	4.36E-01	9.92E-01	3.30E+00	U
WS	10	544777004	5/13/2021	K-40	1.91E+02	2.14E+01	2.55E+01	
WS	10	544777004	5/13/2021	La-140	-8.33E-01	1.13E+00	3.54E+00	U
WS	10	544777004	5/13/2021	Mn-54	-9.52E-02	6.41E-01	2.13E+00	U
WS	10	544777004	5/13/2021	Nb-95	1.73E+00	8.61E-01	2.78E+00	U
WS	10	544777004	5/13/2021	Pb-212	2.75E+00	2.34E+00	4.41E+00	U
WS	10	544777004	5/13/2021	Pb-214	3.29E+00	3.26E+00	5.39E+00	U
WS	10	544777004	5/13/2021	Ru-103	2.69E-01	6.64E-01	2.17E+00	U
WS	10	544777004	5/13/2021	Ru-106	1.96E+00	6.59E+00	2.12E+01	U
WS	10	544777004	5/13/2021	Sb-124	8.74E-01	1.60E+00	4.95E+00	U
WS	10	544777004	5/13/2021	Sb-125	-5.38E-01	1.79E+00	5.75E+00	U
WS	10	544777004	5/13/2021	Se-75	8.77E-01	7.85E-01	2.63E+00	U
WS	10	544777004	5/13/2021	Th-228	2.75E+00	2.34E+00	4.41E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	10	544777004	5/13/2021	Zn-65	-1.04E+00	1.62E+00	5.04E+00	U
WS	10	544777004	5/13/2021	Zr-95	-1.11E+00	1.21E+00	3.81E+00	U
WS	10	563415004	11/15/2021	Ac-228	0.00E+00	4.84E+00	7.88E+00	U
WS	10	563415004	11/15/2021	Ag-108m	4.42E-01	4.07E-01	1.35E+00	U
WS	10	563415004	11/15/2021	Ag-110m	5.99E-01	7.22E-01	2.20E+00	U
WS	10	563415004	11/15/2021	Ba-140	-1.86E+01	8.72E+00	1.39E+01	U
WS	10	563415004	11/15/2021	Be-7	1.16E+00	4.64E+00	1.54E+01	U
WS	10	563415004	11/15/2021	Bi-214	1.13E+00	2.59E+00	3.22E+00	U
WS	10	563415004	11/15/2021	Ce-141	2.10E+00	1.20E+00	2.60E+00	U
WS	10	563415004	11/15/2021	Ce-144	2.74E+00	2.61E+00	8.29E+00	U
WS	10	563415004	11/15/2021	Co-57	4.98E-01	3.65E-01	1.06E+00	U
WS	10	563415004	11/15/2021	Co-58	-1.29E-01	5.15E-01	1.73E+00	U
WS	10	563415004	11/15/2021	Co-60	-5.23E-01	5.39E-01	1.63E+00	U
WS	10	563415004	11/15/2021	Cr-51	-9.51E+00	5.61E+00	1.67E+01	U
WS	10	563415004	11/15/2021	Cs-134	1.10E-01	5.44E-01	1.74E+00	U
WS	10	563415004	11/15/2021	Cs-137	6.80E-01	5.63E-01	1.81E+00	U
WS	10	563415004	11/15/2021	Fe-59	-4.20E-01	1.23E+00	4.00E+00	U
WS	10	563415004	11/15/2021	I-131	-6.82E+00	3.63E+00	6.58E+00	U
WS	10	563415004	11/15/2021	K-40	1.10E+02	1.75E+01	1.62E+01	
WS	10	563415004	11/15/2021	La-140	-3.24E-01	1.42E+00	4.48E+00	U
WS	10	563415004	11/15/2021	Mn-54	-1.38E+00	1.18E+00	1.60E+00	U
WS	10	563415004	11/15/2021	Nb-95	6.35E-01	6.02E-01	1.93E+00	U
WS	10	563415004	11/15/2021	Pb-212	9.73E-01	1.82E+00	2.38E+00	U
WS	10	563415004	11/15/2021	Pb-214	2.21E+00	2.47E+00	3.72E+00	U
WS	10	563415004	11/15/2021	Ru-103	-2.98E-01	5.75E-01	1.85E+00	U
WS	10	563415004	11/15/2021	Ru-106	3.82E+00	4.51E+00	1.47E+01	U
WS	10	563415004	11/15/2021	Sb-124	1.99E+00	1.34E+00	4.43E+00	U
WS	10	563415004	11/15/2021	Sb-125	5.03E-01	1.22E+00	4.06E+00	U
WS	10	563415004	11/15/2021	Se-75	-1.29E-02	5.18E-01	1.77E+00	U
WS	10	563415004	11/15/2021	Th-228	9.73E-01	1.82E+00	2.38E+00	U
WS	10	563415004	11/15/2021	Zn-65	-2.21E-01	1.21E+00	3.48E+00	U
WS	10	563415004	11/15/2021	Zr-95	-5.24E-01	1.06E+00	3.27E+00	U
WS	51	532364002	1/11/2021	Ac-228	2.62E+00	3.54E+00	4.91E+00	U
WS	51	532364002	1/11/2021	Ag-108m	7.42E-01	6.90E-01	1.20E+00	U
WS	51	532364002	1/11/2021	Ag-110m	-7.24E-01	6.35E-01	1.83E+00	U
WS	51	532364002	1/11/2021	Ba-140	-1.40E+00	2.29E+00	7.33E+00	U
WS	51	532364002	1/11/2021	Be-7	4.63E-01	3.87E+00	1.30E+01	U
WS	51	532364002	1/11/2021	Bi-214	-1.72E+00	1.60E+00	3.60E+00	U
WS	51	532364002	1/11/2021	Ce-141	-3.88E-01	8.58E-01	2.73E+00	U
WS	51	532364002	1/11/2021	Ce-144	1.72E+00	3.09E+00	1.01E+01	U
WS	51	532364002	1/11/2021	Co-57	-4.33E-01	4.03E-01	1.24E+00	U
WS	51	532364002	1/11/2021	Co-58	2.72E-03	4.32E-01	1.39E+00	U
WS	51	532364002	1/11/2021	Co-60	-2.91E-01	5.07E-01	1.40E+00	U
WS	51	532364002	1/11/2021	Cr-51	-5.43E-01	4.08E+00	1.39E+01	U
WS	51	532364002	1/11/2021	Cs-134	2.38E-01	4.84E-01	1.58E+00	U
WS	51	532364002	1/11/2021	Cs-137	-3.44E-01	6.66E-01	1.54E+00	U
WS	51	532364002	1/11/2021	Fe-59	-1.21E+00	9.99E-01	3.05E+00	U
WS	51	532364002	1/11/2021	I-131	-5.31E-01	9.04E-01	2.99E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	532364002	1/11/2021	K-40	3.47E+02	2.63E+01	1.36E+01	
WS	51	532364002	1/11/2021	La-140	-7.67E-01	7.33E-01	2.13E+00	U
WS	51	532364002	1/11/2021	Mn-54	1.19E-03	7.12E-01	1.40E+00	U
WS	51	532364002	1/11/2021	Nb-95	-1.69E-01	4.80E-01	1.52E+00	U
WS	51	532364002	1/11/2021	Pb-212	3.40E-01	1.41E+00	3.37E+00	U
WS	51	532364002	1/11/2021	Pb-214	-1.09E+00	1.58E+00	3.58E+00	U
WS	51	532364002	1/11/2021	Ru-103	-9.61E-01	5.32E-01	1.50E+00	U
WS	51	532364002	1/11/2021	Ru-106	4.54E+00	4.34E+00	1.43E+01	U
WS	51	532364002	1/11/2021	Sb-124	3.91E-01	1.06E+00	3.54E+00	U
WS	51	532364002	1/11/2021	Sb-125	-2.10E+00	1.22E+00	3.30E+00	U
WS	51	532364002	1/11/2021	Se-75	3.66E-01	6.49E-01	2.04E+00	U
WS	51	532364002	1/11/2021	Th-228	3.40E-01	1.41E+00	3.37E+00	U
WS	51	532364002	1/11/2021	Zn-65	2.63E+00	1.26E+00	3.73E+00	U
WS	51	532364002	1/11/2021	Zr-95	-6.13E-01	8.24E-01	2.53E+00	U
WS	51	535172002	2/10/2021	Ac-228	6.12E+00	5.10E+00	8.17E+00	U
WS	51	535172002	2/10/2021	Ag-108m	4.95E-02	4.59E-01	1.57E+00	U
WS	51	535172002	2/10/2021	Ag-110m	-1.90E-01	7.65E-01	2.45E+00	U
WS	51	535172002	2/10/2021	Ba-140	9.29E-01	2.53E+00	8.63E+00	U
WS	51	535172002	2/10/2021	Be-7	-2.22E-01	4.25E+00	1.44E+01	U
WS	51	535172002	2/10/2021	Bi-214	3.39E+00	2.89E+00	4.40E+00	U
WS	51	535172002	2/10/2021	Ce-141	0.00E+00	1.05E+00	2.32E+00	U
WS	51	535172002	2/10/2021	Ce-144	-2.11E+00	4.69E+00	1.16E+01	U
WS	51	535172002	2/10/2021	Co-57	-4.22E-01	4.54E-01	1.44E+00	U
WS	51	535172002	2/10/2021	Co-58	-6.48E-01	5.04E-01	1.44E+00	U
WS	51	535172002	2/10/2021	Co-60	-3.49E-02	5.12E-01	1.72E+00	U
WS	51	535172002	2/10/2021	Cr-51	-1.74E+00	5.12E+00	1.58E+01	U
WS	51	535172002	2/10/2021	Cs-134	-4.49E-01	5.80E-01	1.79E+00	U
WS	51	535172002	2/10/2021	Cs-137	3.26E-01	5.60E-01	1.89E+00	U
WS	51	535172002	2/10/2021	Fe-59	4.26E-01	1.21E+00	3.92E+00	U
WS	51	535172002	2/10/2021	I-131	-1.32E-01	1.04E+00	2.95E+00	U
WS	51	535172002	2/10/2021	K-40	3.30E+02	2.73E+01	1.81E+01	
WS	51	535172002	2/10/2021	La-140	-2.74E+00	1.66E+00	2.83E+00	U
WS	51	535172002	2/10/2021	Mn-54	6.94E-02	5.78E-01	1.90E+00	U
WS	51	535172002	2/10/2021	Nb-95	-1.87E-01	8.12E-01	1.90E+00	U
WS	51	535172002	2/10/2021	Pb-212	1.20E+00	2.26E+00	3.79E+00	U
WS	51	535172002	2/10/2021	Pb-214	2.12E+00	2.15E+00	4.42E+00	U
WS	51	535172002	2/10/2021	Ru-103	-2.48E-02	4.92E-01	1.66E+00	U
WS	51	535172002	2/10/2021	Ru-106	3.26E+00	4.93E+00	1.67E+01	U
WS	51	535172002	2/10/2021	Sb-124	-1.11E-01	1.23E+00	4.06E+00	U
WS	51	535172002	2/10/2021	Sb-125	-7.05E-01	1.31E+00	4.34E+00	U
WS	51	535172002	2/10/2021	Se-75	2.18E+00	1.18E+00	2.22E+00	U
WS	51	535172002	2/10/2021	Th-228	1.20E+00	2.26E+00	3.79E+00	U
WS	51	535172002	2/10/2021	Zn-65	-2.74E+00	1.45E+00	3.59E+00	U
WS	51	535172002	2/10/2021	Zr-95	-1.00E-01	9.18E-01	3.00E+00	U
WS	51	538500002	3/18/2021	Ac-228	-1.19E+00	3.63E+00	7.99E+00	U
WS	51	538500002	3/18/2021	Ag-108m	-3.92E-01	4.68E-01	1.43E+00	U
WS	51	538500002	3/18/2021	Ag-110m	-4.88E-01	6.85E-01	2.20E+00	U
WS	51	538500002	3/18/2021	Ba-140	-1.09E+00	2.53E+00	7.90E+00	U
WS	51	538500002	3/18/2021	Be-7	-2.51E-02	4.50E+00	1.44E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	538500002	3/18/2021	Bi-214	2.87E+00	2.11E+00	3.28E+00	U
WS	51	538500002	3/18/2021	Ce-141	8.16E-01	1.04E+00	3.08E+00	U
WS	51	538500002	3/18/2021	Ce-144	3.40E+00	4.42E+00	1.20E+01	U
WS	51	538500002	3/18/2021	Co-57	-1.74E-01	4.79E-01	1.57E+00	U
WS	51	538500002	3/18/2021	Co-58	-2.06E-01	5.41E-01	1.79E+00	U
WS	51	538500002	3/18/2021	Co-60	2.59E-01	5.28E-01	1.77E+00	U
WS	51	538500002	3/18/2021	Cr-51	1.41E-02	4.71E+00	1.53E+01	U
WS	51	538500002	3/18/2021	Cs-134	2.49E-01	5.46E-01	1.86E+00	U
WS	51	538500002	3/18/2021	Cs-137	-2.49E-01	5.51E-01	1.83E+00	U
WS	51	538500002	3/18/2021	Fe-59	-3.23E-01	1.02E+00	3.34E+00	U
WS	51	538500002	3/18/2021	I-131	1.66E-01	8.19E-01	2.65E+00	U
WS	51	538500002	3/18/2021	K-40	3.11E+02	2.30E+01	1.82E+01	
WS	51	538500002	3/18/2021	La-140	-1.73E-01	9.14E-01	2.56E+00	U
WS	51	538500002	3/18/2021	Mn-54	4.78E-01	7.54E-01	1.72E+00	U
WS	51	538500002	3/18/2021	Nb-95	-4.21E-01	8.08E-01	1.78E+00	U
WS	51	538500002	3/18/2021	Pb-212	2.74E+00	2.70E+00	2.90E+00	U
WS	51	538500002	3/18/2021	Pb-214	-8.13E-01	1.89E+00	4.17E+00	U
WS	51	538500002	3/18/2021	Ru-103	-4.64E-01	5.59E-01	1.70E+00	U
WS	51	538500002	3/18/2021	Ru-106	6.44E+00	4.75E+00	1.59E+01	U
WS	51	538500002	3/18/2021	Sb-124	1.29E+00	1.25E+00	4.17E+00	U
WS	51	538500002	3/18/2021	Sb-125	-2.37E+00	1.52E+00	4.31E+00	U
WS	51	538500002	3/18/2021	Se-75	1.13E+00	8.34E-01	2.39E+00	U
WS	51	538500002	3/18/2021	Th-228	2.74E+00	2.70E+00	2.90E+00	U
WS	51	538500002	3/18/2021	Zn-65	-8.84E-01	1.21E+00	3.84E+00	U
WS	51	538500002	3/18/2021	Zr-95	-8.33E-01	9.20E-01	2.93E+00	U
WS	51	543399002	3/18/2021	H-3	-7.45E+00	1.55E+02	5.10E+02	U
WS	51	541846002	4/21/2021	Ac-228	-4.13E+00	4.19E+00	8.99E+00	U
WS	51	541846002	4/21/2021	Ag-108m	4.72E-01	5.63E-01	1.80E+00	U
WS	51	541846002	4/21/2021	Ag-110m	-2.15E+00	1.01E+00	2.60E+00	U
WS	51	541846002	4/21/2021	Ba-140	-3.86E-01	2.76E+00	9.14E+00	U
WS	51	541846002	4/21/2021	Be-7	4.06E-02	5.27E+00	1.78E+01	U
WS	51	541846002	4/21/2021	Bi-214	-1.25E+00	2.20E+00	5.04E+00	U
WS	51	541846002	4/21/2021	Ce-141	-1.19E+00	9.79E-01	2.93E+00	U
WS	51	541846002	4/21/2021	Ce-144	-3.67E+00	3.64E+00	1.12E+01	U
WS	51	541846002	4/21/2021	Co-57	6.76E-03	4.63E-01	1.52E+00	U
WS	51	541846002	4/21/2021	Co-58	2.41E-01	6.20E-01	2.00E+00	U
WS	51	541846002	4/21/2021	Co-60	-1.40E+00	8.16E-01	2.23E+00	U
WS	51	541846002	4/21/2021	Cr-51	1.03E+01	6.02E+00	1.90E+01	U
WS	51	541846002	4/21/2021	Cs-134	5.34E-02	6.85E-01	2.25E+00	U
WS	51	541846002	4/21/2021	Cs-137	7.92E-02	7.19E-01	2.34E+00	U
WS	51	541846002	4/21/2021	Fe-59	1.54E+00	1.41E+00	4.66E+00	U
WS	51	541846002	4/21/2021	I-131	-1.13E+00	1.07E+00	3.24E+00	U
WS	51	541846002	4/21/2021	K-40	3.02E+02	2.78E+01	2.37E+01	
WS	51	541846002	4/21/2021	La-140	4.64E-01	1.12E+00	3.70E+00	U
WS	51	541846002	4/21/2021	Mn-54	-1.31E-01	6.39E-01	2.12E+00	U
WS	51	541846002	4/21/2021	Nb-95	-3.11E-01	6.18E-01	2.03E+00	U
WS	51	541846002	4/21/2021	Pb-212	-2.07E+00	1.62E+00	4.26E+00	U
WS	51	541846002	4/21/2021	Pb-214	1.73E+00	2.74E+00	4.90E+00	U
WS	51	541846002	4/21/2021	Ru-103	-7.20E-01	6.98E-01	1.90E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	541846002	4/21/2021	Ru-106	-6.97E+00	5.53E+00	1.63E+01	U
WS	51	541846002	4/21/2021	Sb-124	-6.44E-01	1.64E+00	5.33E+00	U
WS	51	541846002	4/21/2021	Sb-125	-3.49E-01	1.86E+00	5.18E+00	U
WS	51	541846002	4/21/2021	Se-75	-6.94E-01	7.66E-01	2.45E+00	U
WS	51	541846002	4/21/2021	Th-228	-2.07E+00	1.62E+00	4.26E+00	U
WS	51	541846002	4/21/2021	Zn-65	3.31E-01	2.69E+00	5.04E+00	U
WS	51	541846002	4/21/2021	Zr-95	1.64E-01	1.03E+00	3.51E+00	U
WS	51	544777002	5/11/2021	Ac-228	-2.41E+00	3.13E+00	6.20E+00	U
WS	51	544777002	5/11/2021	Ag-108m	1.81E-01	3.91E-01	1.35E+00	U
WS	51	544777002	5/11/2021	Ag-110m	-2.67E-02	6.44E-01	2.10E+00	U
WS	51	544777002	5/11/2021	Ba-140	-1.03E+00	3.15E+00	8.49E+00	U
WS	51	544777002	5/11/2021	Be-7	-3.78E+00	3.62E+00	1.14E+01	U
WS	51	544777002	5/11/2021	Bi-214	9.86E-02	2.30E+00	3.94E+00	U
WS	51	544777002	5/11/2021	Ce-141	1.95E-01	8.19E-01	2.69E+00	U
WS	51	544777002	5/11/2021	Ce-144	-5.13E-01	3.00E+00	9.78E+00	U
WS	51	544777002	5/11/2021	Co-57	2.86E-01	3.82E-01	1.26E+00	U
WS	51	544777002	5/11/2021	Co-58	4.11E-01	4.75E-01	1.60E+00	U
WS	51	544777002	5/11/2021	Co-60	4.75E-02	4.98E-01	1.59E+00	U
WS	51	544777002	5/11/2021	Cr-51	-1.26E+00	4.52E+00	1.40E+01	U
WS	51	544777002	5/11/2021	Cs-134	-3.00E-01	8.06E-01	1.72E+00	U
WS	51	544777002	5/11/2021	Cs-137	-1.12E-01	4.52E-01	1.49E+00	U
WS	51	544777002	5/11/2021	Fe-59	-2.01E-01	1.09E+00	3.49E+00	U
WS	51	544777002	5/11/2021	I-131	-6.43E-01	8.97E-01	2.67E+00	U
WS	51	544777002	5/11/2021	K-40	3.02E+02	2.53E+01	1.41E+01	
WS	51	544777002	5/11/2021	La-140	1.49E-01	8.87E-01	3.02E+00	U
WS	51	544777002	5/11/2021	Mn-54	-1.31E-01	4.74E-01	1.53E+00	U
WS	51	544777002	5/11/2021	Nb-95	-1.32E-01	4.50E-01	1.46E+00	U
WS	51	544777002	5/11/2021	Pb-212	0.00E+00	1.74E+00	2.79E+00	U
WS	51	544777002	5/11/2021	Pb-214	3.36E-01	2.12E+00	4.00E+00	U
WS	51	544777002	5/11/2021	Ru-103	-3.33E-01	5.28E-01	1.54E+00	U
WS	51	544777002	5/11/2021	Ru-106	-7.55E-01	4.00E+00	1.33E+01	U
WS	51	544777002	5/11/2021	Sb-124	-1.79E+00	1.14E+00	3.03E+00	U
WS	51	544777002	5/11/2021	Sb-125	1.08E+00	1.14E+00	3.94E+00	U
WS	51	544777002	5/11/2021	Se-75	9.49E-01	6.57E-01	2.06E+00	U
WS	51	544777002	5/11/2021	Th-228	0.00E+00	1.74E+00	2.79E+00	U
WS	51	544777002	5/11/2021	Zn-65	2.29E-01	1.02E+00	3.33E+00	U
WS	51	544777002	5/11/2021	Zr-95	1.28E-01	8.42E-01	2.81E+00	U
WS	51	548321002	6/14/2021	Ac-228	1.01E+01	3.87E+00	1.14E+01	U
WS	51	548321002	6/14/2021	Ag-108m	-4.23E-01	5.84E-01	1.92E+00	U
WS	51	548321002	6/14/2021	Ag-110m	2.48E-01	1.06E+00	3.46E+00	U
WS	51	548321002	6/14/2021	Ba-140	8.89E+00	6.12E+00	2.04E+01	UDL
WS	51	548321002	6/14/2021	Be-7	1.70E+01	1.01E+01	2.10E+01	U
WS	51	548321002	6/14/2021	Bi-214	-5.43E+00	3.33E+00	6.15E+00	U
WS	51	548321002	6/14/2021	Ce-141	-6.92E+00	2.79E+00	4.62E+00	U
WS	51	548321002	6/14/2021	Ce-144	6.67E+00	4.52E+00	1.45E+01	U
WS	51	548321002	6/14/2021	Co-57	1.47E-01	5.51E-01	1.84E+00	U
WS	51	548321002	6/14/2021	Co-58	8.61E-01	7.41E-01	2.47E+00	U
WS	51	548321002	6/14/2021	Co-60	-8.98E-02	7.11E-01	2.36E+00	U
WS	51	548321002	6/14/2021	Cr-51	1.02E+01	8.16E+00	2.56E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	548321002	6/14/2021	Cs-134	7.91E-01	8.06E-01	2.67E+00	U
WS	51	548321002	6/14/2021	Cs-137	4.03E-01	7.45E-01	2.49E+00	U
WS	51	548321002	6/14/2021	Fe-59	1.20E+00	2.22E+00	5.37E+00	U
WS	51	548321002	6/14/2021	I-131	1.79E+00	3.21E+00	9.32E+00	U
WS	51	548321002	6/14/2021	K-40	3.28E+02	2.62E+01	2.18E+01	
WS	51	548321002	6/14/2021	La-140	-9.31E-01	2.36E+00	7.51E+00	U
WS	51	548321002	6/14/2021	Mn-54	7.03E-02	6.91E-01	2.25E+00	U
WS	51	548321002	6/14/2021	Nb-95	-6.03E-01	8.15E-01	2.52E+00	U
WS	51	548321002	6/14/2021	Pb-212	-1.92E+00	2.13E+00	4.79E+00	U
WS	51	548321002	6/14/2021	Pb-214	4.61E+00	3.51E+00	6.20E+00	U
WS	51	548321002	6/14/2021	Ru-103	2.36E-03	8.67E-01	2.63E+00	U
WS	51	548321002	6/14/2021	Ru-106	4.94E-01	6.45E+00	1.92E+01	U
WS	51	548321002	6/14/2021	Sb-124	1.10E+00	2.14E+00	6.73E+00	U
WS	51	548321002	6/14/2021	Sb-125	1.28E+00	1.74E+00	5.99E+00	U
WS	51	548321002	6/14/2021	Se-75	1.15E+00	1.47E+00	3.13E+00	U
WS	51	548321002	6/14/2021	Th-228	-1.92E+00	2.13E+00	4.79E+00	U
WS	51	548321002	6/14/2021	Zn-65	7.51E-01	1.51E+00	4.89E+00	U
WS	51	548321002	6/14/2021	Zr-95	-2.81E+00	1.51E+00	3.94E+00	U
WS	51	552141002	6/14/2021	H-3	-1.87E+01	1.42E+02	4.72E+02	U
WS	51	550012002	7/14/2021	Ac-228	-3.34E-02	4.01E+00	8.52E+00	U
WS	51	550012002	7/14/2021	Ag-108m	7.75E-01	4.90E-01	1.58E+00	U
WS	51	550012002	7/14/2021	Ag-110m	-2.36E-01	7.08E-01	2.32E+00	U
WS	51	550012002	7/14/2021	Ba-140	3.43E-01	2.39E+00	7.79E+00	U
WS	51	550012002	7/14/2021	Be-7	4.65E+00	4.70E+00	1.55E+01	U
WS	51	550012002	7/14/2021	Bi-214	-3.77E+00	2.27E+00	4.24E+00	U
WS	51	550012002	7/14/2021	Ce-141	2.09E+00	1.77E+00	3.13E+00	U
WS	51	550012002	7/14/2021	Ce-144	-9.47E-01	3.56E+00	1.14E+01	U
WS	51	550012002	7/14/2021	Co-57	-9.35E-01	5.01E-01	1.39E+00	U
WS	51	550012002	7/14/2021	Co-58	3.07E-01	5.30E-01	1.61E+00	U
WS	51	550012002	7/14/2021	Co-60	7.05E-01	6.07E-01	2.01E+00	U
WS	51	550012002	7/14/2021	Cr-51	7.98E+00	5.14E+00	1.67E+01	U
WS	51	550012002	7/14/2021	Cs-134	4.02E-01	5.30E-01	1.82E+00	U
WS	51	550012002	7/14/2021	Cs-137	1.71E-01	5.59E-01	1.80E+00	U
WS	51	550012002	7/14/2021	Fe-59	-2.04E+00	1.25E+00	3.43E+00	U
WS	51	550012002	7/14/2021	I-131	-3.09E-01	8.19E-01	2.69E+00	U
WS	51	550012002	7/14/2021	K-40	2.21E+02	2.04E+01	1.98E+01	
WS	51	550012002	7/14/2021	La-140	-1.47E+00	9.27E-01	2.58E+00	U
WS	51	550012002	7/14/2021	Mn-54	-1.01E+00	5.63E-01	1.57E+00	U
WS	51	550012002	7/14/2021	Nb-95	-2.59E-01	5.04E-01	1.65E+00	U
WS	51	550012002	7/14/2021	Pb-212	-2.60E+00	1.72E+00	3.78E+00	U
WS	51	550012002	7/14/2021	Pb-214	2.36E+00	1.86E+00	3.94E+00	U
WS	51	550012002	7/14/2021	Ru-103	-1.48E+00	8.09E-01	1.61E+00	U
WS	51	550012002	7/14/2021	Ru-106	-9.23E-01	4.70E+00	1.49E+01	U
WS	51	550012002	7/14/2021	Sb-124	2.76E+00	1.47E+00	4.94E+00	U
WS	51	550012002	7/14/2021	Sb-125	-1.15E+00	1.42E+00	4.47E+00	U
WS	51	550012002	7/14/2021	Se-75	2.75E-01	6.70E-01	2.30E+00	U
WS	51	550012002	7/14/2021	Th-228	-2.60E+00	1.72E+00	3.78E+00	U
WS	51	550012002	7/14/2021	Zn-65	1.23E+00	1.47E+00	4.09E+00	U
WS	51	550012002	7/14/2021	Zr-95	-6.51E-01	9.87E-01	3.21E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	552735002	8/9/2021	Ac-228	-2.69E+00	4.63E+00	6.51E+00	U
WS	51	552735002	8/9/2021	Ag-108m	1.34E-02	4.10E-01	1.38E+00	U
WS	51	552735002	8/9/2021	Ag-110m	-3.44E-01	6.16E-01	1.91E+00	U
WS	51	552735002	8/9/2021	Ba-140	-2.33E-01	2.99E+00	9.89E+00	U
WS	51	552735002	8/9/2021	Be-7	-4.09E+00	4.27E+00	1.36E+01	U
WS	51	552735002	8/9/2021	Bi-214	1.10E+00	2.12E+00	3.21E+00	U
WS	51	552735002	8/9/2021	Ce-141	-6.48E+00	2.34E+00	3.09E+00	U
WS	51	552735002	8/9/2021	Ce-144	7.01E-01	3.29E+00	1.07E+01	U
WS	51	552735002	8/9/2021	Co-57	6.15E-01	4.88E-01	1.44E+00	U
WS	51	552735002	8/9/2021	Co-58	-4.22E-01	4.78E-01	1.45E+00	U
WS	51	552735002	8/9/2021	Co-60	-4.23E-01	4.68E-01	1.46E+00	U
WS	51	552735002	8/9/2021	Cr-51	3.48E+00	5.10E+00	1.75E+01	U
WS	51	552735002	8/9/2021	Cs-134	5.83E-01	7.57E-01	1.79E+00	U
WS	51	552735002	8/9/2021	Cs-137	7.95E-01	5.04E-01	1.62E+00	U
WS	51	552735002	8/9/2021	Fe-59	-4.19E-01	1.03E+00	3.41E+00	U
WS	51	552735002	8/9/2021	I-131	-7.87E-01	1.20E+00	3.96E+00	U
WS	51	552735002	8/9/2021	K-40	2.92E+02	2.36E+01	1.51E+01	
WS	51	552735002	8/9/2021	La-140	-7.13E-01	1.08E+00	3.39E+00	U
WS	51	552735002	8/9/2021	Mn-54	-4.08E-02	4.64E-01	1.49E+00	U
WS	51	552735002	8/9/2021	Nb-95	-1.02E+00	9.05E-01	1.65E+00	U
WS	51	552735002	8/9/2021	Pb-212	-2.07E-01	1.76E+00	3.50E+00	U
WS	51	552735002	8/9/2021	Pb-214	-3.08E+00	1.97E+00	3.79E+00	U
WS	51	552735002	8/9/2021	Ru-103	-2.23E-01	7.07E-01	1.64E+00	U
WS	51	552735002	8/9/2021	Ru-106	-8.92E-01	4.21E+00	1.37E+01	U
WS	51	552735002	8/9/2021	Sb-124	-3.08E+00	1.38E+00	3.26E+00	U
WS	51	552735002	8/9/2021	Sb-125	-6.28E-01	1.20E+00	3.94E+00	U
WS	51	552735002	8/9/2021	Se-75	-4.73E-01	7.05E-01	2.14E+00	U
WS	51	552735002	8/9/2021	Th-228	-2.07E-01	1.76E+00	3.50E+00	U
WS	51	552735002	8/9/2021	Zn-65	-4.92E-01	1.09E+00	3.16E+00	U
WS	51	552735002	8/9/2021	Zr-95	1.21E+00	9.29E-01	3.01E+00	U
WS	51	556375002	9/15/2021	Ac-228	2.42E+00	4.57E+00	7.49E+00	U
WS	51	556375002	9/15/2021	Ag-108m	-1.30E+00	7.74E-01	1.50E+00	U
WS	51	556375002	9/15/2021	Ag-110m	3.69E-01	7.06E-01	2.28E+00	U
WS	51	556375002	9/15/2021	Ba-140	1.87E+00	2.71E+00	9.02E+00	U
WS	51	556375002	9/15/2021	Be-7	-1.31E+00	3.96E+00	1.31E+01	U
WS	51	556375002	9/15/2021	Bi-214	3.35E+00	1.98E+00	3.73E+00	U
WS	51	556375002	9/15/2021	Ce-141	1.71E+00	1.77E+00	2.68E+00	U
WS	51	556375002	9/15/2021	Ce-144	7.86E-01	3.24E+00	1.06E+01	U
WS	51	556375002	9/15/2021	Co-57	1.76E-01	4.24E-01	1.39E+00	U
WS	51	556375002	9/15/2021	Co-58	-4.40E-01	5.57E-01	1.71E+00	U
WS	51	556375002	9/15/2021	Co-60	-1.33E+00	9.47E-01	1.50E+00	U
WS	51	556375002	9/15/2021	Cr-51	-5.79E+00	4.75E+00	1.52E+01	U
WS	51	556375002	9/15/2021	Cs-134	-2.31E-01	5.26E-01	1.65E+00	U
WS	51	556375002	9/15/2021	Cs-137	5.72E-01	4.96E-01	1.62E+00	U
WS	51	556375002	9/15/2021	Fe-59	-2.83E-01	9.23E-01	3.07E+00	U
WS	51	556375002	9/15/2021	I-131	-4.45E-01	9.78E-01	3.27E+00	U
WS	51	556375002	9/15/2021	K-40	3.55E+02	2.59E+01	1.49E+01	
WS	51	556375002	9/15/2021	La-140	-3.63E-01	8.64E-01	2.75E+00	U
WS	51	556375002	9/15/2021	Mn-54	-3.90E-01	5.05E-01	1.54E+00	U
WS	51	556375002	9/15/2021	Nb-95	9.84E-02	8.68E-01	1.78E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	556375002	9/15/2021	Pb-212	0.00E+00	2.92E+00	3.50E+00	U
WS	51	556375002	9/15/2021	Pb-214	2.15E-01	1.68E+00	4.04E+00	U
WS	51	556375002	9/15/2021	Ru-103	-1.89E-01	5.78E-01	1.70E+00	U
WS	51	556375002	9/15/2021	Ru-106	-4.36E-01	4.16E+00	1.36E+01	U
WS	51	556375002	9/15/2021	Sb-124	-6.04E-02	9.81E-01	3.18E+00	U
WS	51	556375002	9/15/2021	Sb-125	2.40E-01	1.30E+00	4.39E+00	U
WS	51	556375002	9/15/2021	Se-75	-6.57E-01	7.35E-01	2.20E+00	U
WS	51	556375002	9/15/2021	Th-228	0.00E+00	2.92E+00	3.50E+00	U
WS	51	556375002	9/15/2021	Zn-65	-2.34E-01	1.02E+00	3.40E+00	U
WS	51	556375002	9/15/2021	Zr-95	-4.77E-01	9.06E-01	2.85E+00	U
WS	51	560827002	9/15/2021	H-3	-1.91E+02	2.22E+02	7.69E+02	U
WS	51	558886002	10/12/2021	Ac-228	3.58E+00	4.79E+00	6.57E+00	U
WS	51	558886002	10/12/2021	Ag-108m	2.78E-01	5.00E-01	1.70E+00	U
WS	51	558886002	10/12/2021	Ag-110m	-1.53E+00	8.37E-01	2.08E+00	U
WS	51	558886002	10/12/2021	Ba-140	-2.42E-03	2.83E+00	9.40E+00	U
WS	51	558886002	10/12/2021	Be-7	9.26E+00	5.95E+00	1.49E+01	U
WS	51	558886002	10/12/2021	Bi-214	8.53E+00	2.78E+00	3.48E+00	X(1)
WS	51	558886002	10/12/2021	Ce-141	-1.16E+00	1.03E+00	3.07E+00	U
WS	51	558886002	10/12/2021	Ce-144	1.38E+00	3.70E+00	1.20E+01	U
WS	51	558886002	10/12/2021	Co-57	-5.22E-01	4.76E-01	1.44E+00	U
WS	51	558886002	10/12/2021	Co-58	-4.37E-01	6.89E-01	2.01E+00	U
WS	51	558886002	10/12/2021	Co-60	-5.59E-01	6.80E-01	2.11E+00	U
WS	51	558886002	10/12/2021	Cr-51	5.02E+00	5.01E+00	1.72E+01	U
WS	51	558886002	10/12/2021	Cs-134	7.43E-01	6.24E-01	2.08E+00	U
WS	51	558886002	10/12/2021	Cs-137	5.33E-01	5.81E-01	1.95E+00	U
WS	51	558886002	10/12/2021	Fe-59	-2.03E+00	1.65E+00	4.01E+00	U
WS	51	558886002	10/12/2021	I-131	-9.38E-01	9.20E-01	2.90E+00	U
WS	51	558886002	10/12/2021	K-40	3.02E+02	2.37E+01	1.36E+01	
WS	51	558886002	10/12/2021	La-140	9.02E-01	1.02E+00	3.17E+00	U
WS	51	558886002	10/12/2021	Mn-54	7.63E-01	5.51E-01	1.83E+00	U
WS	51	558886002	10/12/2021	Nb-95	-4.53E-01	6.29E-01	1.93E+00	U
WS	51	558886002	10/12/2021	Pb-212	6.71E-01	2.20E+00	3.41E+00	U
WS	51	558886002	10/12/2021	Pb-214	-1.73E+00	2.03E+00	4.76E+00	U
WS	51	558886002	10/12/2021	Ru-103	-2.21E-01	6.02E-01	1.75E+00	U
WS	51	558886002	10/12/2021	Ru-106	6.55E-01	5.10E+00	1.68E+01	U
WS	51	558886002	10/12/2021	Sb-124	2.05E+00	1.07E+00	3.87E+00	U
WS	51	558886002	10/12/2021	Sb-125	-1.71E+00	1.35E+00	4.05E+00	U
WS	51	558886002	10/12/2021	Se-75	1.86E-01	7.54E-01	2.37E+00	U
WS	51	558886002	10/12/2021	Th-228	6.71E-01	2.20E+00	3.41E+00	U
WS	51	558886002	10/12/2021	Zn-65	-1.33E-02	1.27E+00	3.79E+00	U
WS	51	558886002	10/12/2021	Zr-95	8.12E-01	9.14E-01	3.07E+00	U
WS	51	563415002	11/17/2021	Ac-228	-1.30E+00	3.16E+00	6.93E+00	U
WS	51	563415002	11/17/2021	Ag-108m	5.61E-02	3.91E-01	1.30E+00	U
WS	51	563415002	11/17/2021	Ag-110m	-1.13E+00	6.97E-01	2.02E+00	U
WS	51	563415002	11/17/2021	Ba-140	4.28E+00	4.11E+00	1.35E+01	U
WS	51	563415002	11/17/2021	Be-7	2.75E+00	4.30E+00	1.43E+01	U
WS	51	563415002	11/17/2021	Bi-214	3.69E+00	2.34E+00	4.05E+00	U
WS	51	563415002	11/17/2021	Ce-141	-5.68E+00	2.03E+00	3.07E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	563415002	11/17/2021	Ce-144	2.21E+00	3.18E+00	1.04E+01	U
WS	51	563415002	11/17/2021	Co-57	-2.09E-02	4.29E-01	1.40E+00	U
WS	51	563415002	11/17/2021	Co-58	9.56E-01	5.83E-01	1.93E+00	U
WS	51	563415002	11/17/2021	Co-60	-5.97E-01	6.93E-01	1.62E+00	U
WS	51	563415002	11/17/2021	Cr-51	2.43E+00	5.43E+00	1.85E+01	U
WS	51	563415002	11/17/2021	Cs-134	7.44E-01	5.54E-01	1.69E+00	U
WS	51	563415002	11/17/2021	Cs-137	2.01E-01	4.78E-01	1.55E+00	U
WS	51	563415002	11/17/2021	Fe-59	-1.51E+00	1.51E+00	3.98E+00	U
WS	51	563415002	11/17/2021	I-131	-3.00E-02	1.81E+00	6.07E+00	U
WS	51	563415002	11/17/2021	K-40	3.16E+02	2.39E+01	1.65E+01	
WS	51	563415002	11/17/2021	La-140	-1.18E+00	1.35E+00	4.23E+00	U
WS	51	563415002	11/17/2021	Mn-54	-4.21E-01	4.72E-01	1.51E+00	U
WS	51	563415002	11/17/2021	Nb-95	6.22E-01	5.66E-01	1.93E+00	U
WS	51	563415002	11/17/2021	Pb-212	1.57E+00	1.90E+00	3.63E+00	U
WS	51	563415002	11/17/2021	Pb-214	-1.28E+00	2.02E+00	3.81E+00	U
WS	51	563415002	11/17/2021	Ru-103	-1.90E+00	7.14E-01	1.62E+00	U
WS	51	563415002	11/17/2021	Ru-106	-1.72E+00	4.32E+00	1.37E+01	U
WS	51	563415002	11/17/2021	Sb-124	-2.19E+00	1.74E+00	4.10E+00	U
WS	51	563415002	11/17/2021	Sb-125	-1.38E-01	1.14E+00	3.78E+00	U
WS	51	563415002	11/17/2021	Se-75	4.62E-01	6.28E-01	2.16E+00	U
WS	51	563415002	11/17/2021	Th-228	1.57E+00	1.90E+00	3.63E+00	U
WS	51	563415002	11/17/2021	Zn-65	1.47E+00	1.20E+00	3.98E+00	U
WS	51	563415002	11/17/2021	Zr-95	-3.06E+00	1.71E+00	2.91E+00	U
WS	51	565202002	12/9/2021	Ac-228	1.85E+00	4.41E+00	9.41E+00	U
WS	51	565202002	12/9/2021	Ag-108m	1.92E-01	4.75E-01	1.56E+00	U
WS	51	565202002	12/9/2021	Ag-110m	-5.94E-01	8.15E-01	2.64E+00	U
WS	51	565202002	12/9/2021	Ba-140	3.30E+00	5.51E+00	1.79E+01	UDL
WS	51	565202002	12/9/2021	Be-7	-1.29E-01	5.78E+00	1.88E+01	U
WS	51	565202002	12/9/2021	Bi-214	8.44E-01	3.19E+00	4.55E+00	U
WS	51	565202002	12/9/2021	Ce-141	-2.91E+00	1.78E+00	3.29E+00	U
WS	51	565202002	12/9/2021	Ce-144	-4.35E+00	3.22E+00	9.18E+00	U
WS	51	565202002	12/9/2021	Co-57	1.45E-02	4.98E-01	1.21E+00	U
WS	51	565202002	12/9/2021	Co-58	2.22E-01	6.35E-01	2.17E+00	U
WS	51	565202002	12/9/2021	Co-60	1.66E+00	8.25E-01	2.36E+00	U
WS	51	565202002	12/9/2021	Cr-51	-1.08E+01	7.09E+00	2.12E+01	U
WS	51	565202002	12/9/2021	Cs-134	1.14E+00	6.53E-01	2.14E+00	U
WS	51	565202002	12/9/2021	Cs-137	1.30E+00	6.78E-01	2.07E+00	U
WS	51	565202002	12/9/2021	Fe-59	3.37E+00	3.82E+00	5.34E+00	U
WS	51	565202002	12/9/2021	I-131	-1.29E+00	2.79E+00	9.03E+00	U
WS	51	565202002	12/9/2021	K-40	3.64E+02	2.59E+01	1.75E+01	
WS	51	565202002	12/9/2021	La-140	-3.96E+00	2.56E+00	5.93E+00	U
WS	51	565202002	12/9/2021	Mn-54	-9.02E-01	6.11E-01	1.84E+00	U
WS	51	565202002	12/9/2021	Nb-95	3.52E-01	6.81E-01	2.33E+00	U
WS	51	565202002	12/9/2021	Pb-212	-3.65E+00	2.03E+00	3.59E+00	U
WS	51	565202002	12/9/2021	Pb-214	0.00E+00	3.01E+00	4.32E+00	U
WS	51	565202002	12/9/2021	Ru-103	-4.77E-01	7.11E-01	2.23E+00	U
WS	51	565202002	12/9/2021	Ru-106	5.29E+00	5.54E+00	1.78E+01	U
WS	51	565202002	12/9/2021	Sb-124	1.80E+00	1.73E+00	5.72E+00	U
WS	51	565202002	12/9/2021	Sb-125	1.08E+00	1.45E+00	4.74E+00	U
WS	51	565202002	12/9/2021	Se-75	-1.57E+00	7.71E-01	2.17E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	565202002	12/9/2021	Th-228	-3.65E+00	2.03E+00	3.59E+00	U
WS	51	565202002	12/9/2021	Zn-65	-6.10E-01	1.36E+00	4.40E+00	U
WS	51	565202002	12/9/2021	Zr-95	1.69E-01	1.16E+00	3.95E+00	U
WS	51	568410002	12/9/2021	H-3	-3.80E+02	1.71E+02	6.22E+02	U

FLAGS

A blank Flag field indicates that the measured activity is considered positive as it is greater than the MDC and has no other qualifiers noted.

U: **Target isotope was analyzed for but not detected above the MDC and LLD.**
UI: **Uncertain identification for gamma spectroscopy.**
X: **Lab-specific qualifier:**
(1) False positive due to the presence of radon gas in the water.
M: **Reported result is less than the LLD and greater than the MDC.**
DL: **Measured MDC is greater than the LLD.**
DL*: **Near miss of MDC being within round-off difference of being greater than the LLD.**