



Sequoyah Nuclear Plant, Post Office Box 2000, Soddy Daisy, Tennessee 37384

May 8, 2025

10 CFR 50.4

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555-0001

Sequoyah Nuclear Plant, Units 1 and 2
Renewed Facility Operating License Nos. DPR-77 and DPR-79
NRC Docket Nos. 50-327, 50-328, and 72-034

Subject: **Annual Radiological Environmental Operating Report**

Enclosed is the Annual Radiological Environmental Operating Report for the period of January 1 to December 31, 2024. This report is being submitted as required by the respective Sequoyah Nuclear Plant (SQN), Units 1 and 2, Technical Specification 5.6.1 and SQN's Offsite Dose Calculation Manual Administrative Control Section 5.1, each of which specifies that the report be submitted prior to May 15th of each year.

There are no new regulatory commitments contained in this letter. If you have any questions concerning this matter, please contact Mr. Rick Medina, Site Compliance Manager, at (423) 843-8129 or rmedina4@tva.gov.

Respectfully,

Marshall,
Thomas B.

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Enclosure:

Annual Radiological Environmental Operating Report, Sequoyah Nuclear Plant, 2024

cc (Enclosure):

NRC Regional Administrator – Region II
NRC Resident Inspector – Sequoyah Nuclear Plant

ENCLOSURE

**ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
SEQUOYAH NUCLEAR PLANT
2024**



Sequoyah



Annual Radiological Environmental Operating Report

2024

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1.0 LIST OF ACRONYMS AND DEFINITIONS

1. Airborne Activity Sampling: Continuous sampling of air through the collection of particulates and radionuclides on filter media.
2. ARERR: Annual Radioactive Effluent Release Report
3. AREOR: Annual Radiological Environmental Operating Report
4. BWR: Boiling Water Reactor
5. Composite Sample: A series of single collected portions (aliquots) analyzed as one sample. The aliquots making up the sample are collected at time intervals that are very short compared to the composite period.
6. Control: A sampling station in a location not likely to be affected by plant effluents due to its distance and/or direction from the station.
7. Curie (Ci): A measure of radioactivity; equal to 3.7×10^{10} disintegrations per second, or 2.22×10^{12} disintegrations per minute.
8. Direct Radiation Monitoring: The measurement of radiation dose at various distances from the plant is assessed using Thermoluminescent dosimeters, Optical Stimulated Luminance dosimeters and pressurized ionization chambers.
9. Grab Sample: A single discrete sample drawn at one point in time.
10. Indicator: A sampling location that is likely to be affected by plant effluents due to its proximity and/or direction from the plant.
11. Ingestion Pathway: The ingestion pathway includes milk, fish, drinking water and garden produce. Also sampled (under special circumstances) are other media such as vegetation and animal products such as eggs and meat when additional information about particular radionuclides is needed.
12. ISFSI: Independent Spent Fuel Storage Installation
13. Lower Limit of Detection (LLD): The smallest concentration of radioactive material in a sample that will yield a net count (above system background) that will be detected with 95% probability with a 5% probability of a false conclusion that a blank observation represents "real" signal.
14. MDA: Minimum Detectable Activity. For radiochemistry instruments, the MDA is the a posteriori minimum concentration that a counting system detects. The smallest concentration or activity of radioactive material in a sample that will yield a net count above instrument background and that is detected with 95% probability, with only five % probability of falsely concluding that a blank observation represents a true signal.
15. MDC: Minimum Detectable Concentration

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16. Mean: The average, i.e., the sum of results divided by the number of results.
17. Microcurie: 3.7×10^4 disintegrations per second, or 2.22×10^6 disintegrations per minute.
18. MWe: Megawatts Electric
19. NA: Not Applicable
20. NDA: No Detectable Activity
21. NEI: Nuclear Energy Institute
22. NIST: National Institute of Standards and Technology
23. NPDES: National Pollutant Discharge Elimination System
24. NRC: Nuclear Regulatory Commission
25. ODCM: Offsite Dose Calculation Manual
26. OSLD: Optically Stimulated Luminescent Dosimeter
27. pCi/L: picocuries / Liter
28. Protected Area: An area encompassed by physical barriers and to which access is controlled.
29. PWR: Pressurized Water Reactor
30. REMP: Radiological Environmental Monitoring Program
31. Restricted Area: An area, access to which is limited by the licensee for the purpose of protecting individuals against undue risks from exposure to radiation and radioactive materials.
32. SLC: Selected Licensee Commitment
33. SA: Sample Anomalies
34. SD: Sample Deviation
35. SPDES: State Pollutant Discharge Elimination System
36. SW: Surface Water
37. TLD: Thermoluminescent Dosimeter
38. TRM: Technical Requirement Manual
39. TS: Technical Specification

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40. US: Unavailable Samples

2.0 EXECUTIVE SUMMARY

Sequoyah Radiological Environmental Monitoring Program (REMP) was established prior to the station becoming operational to provide information on background radiation present in the area. The goal of SQN REMP is to evaluate the impact of the station on the environment. Environmental samples from different media are monitored as part of the program in accordance with specifications detailed in the Offsite Dose Calculation Manual (ODCM). The program compares data from indicator locations near the plant, to control locations farther away from the site to assess operation impacts.

The Annual Radiological Environmental Operating Report (AREOR) provides data obtained through analyses of environmental samples collected at SQN for the reporting period of January 1st through December 31st, 2024. During that time period 1726 analyses were performed on 1410 samples. In assessing all the data gathered for this report and comparing these results with preoperational data and/or 10-year average values, it was concluded that the operation of SQN, did not result in detection of plant related radionuclides in the environment.

2.1 Summary Of Conclusions:

In most samples, no measurable activities above background levels were detected. Some public drinking water samples (nine samples from indicator locations and seven samples from the control location) and surface water samples (seven samples from the control location) detected low levels of tritium. The detected levels are below any regulatory limits, and not indicative of an on-going release from Sequoyah. Given the control location tritium results, it is likely attributable to ongoing tritium activities from the Watts Bar facility. Eight soil samples identified a low level of Cs-137 attributable to historical nuclear weapons testing fallout. Positive gross beta results, attributable to natural radioactivity, were identified in a small number of public and surface water locations.

Other sample results values were consistent with historical results which indicate no adverse radiological environmental impacts associated with the operation of SQN. Naturally occurring radionuclides are present in the Earth's crust and atmosphere and exist in detectable quantities throughout the world. It is common to detect natural occurring radionuclides in many of the samples collected for REMP. Some examples of naturally occurring radionuclides that are frequently seen in samples are potassium-40, beryllium-7, actinium-228 (present as a decay product of radium-228), and radium-226. Additionally, some relatively long-lived anthropogenic radioisotopes, such as strontium-90 and cesium-137, are also seen in some REMP samples; these radionuclides exist in measurable quantities throughout the world as a result of fallout from historic atmospheric nuclear weapons testing. Detailed information on the exposure of the U.S. population to ionizing radiation can be found in NCRP Report No. 160 [1].

3.0 INTRODUCTION

The Radiological Environmental Monitoring Program (REMP) provides data on measurable levels of radiation and radioactive materials in the environment. This program also evaluates the relationship between quantities of radioactive materials released from the plant and resultant doses to individuals from principal pathways of exposure. In this capacity, REMP provides a check on the effluent release program and dispersion modeling to ensure that concentrations in the environment due to radioactive effluents conform to the “As Low as Is Reasonably Achievable” (ALARA) design objectives of 10 CFR 50, Appendix I [2], and implements the requirements of Section IV.B.2 and IV.B.3 of Appendix I. REMP is designed to follow the guidance of Nuclear Regulatory Commission (NRC) Regulatory Guide 4.1 [3], NUREG 1301/1302 [4] [5], and the 1979 NRC Branch Technical Position [6].

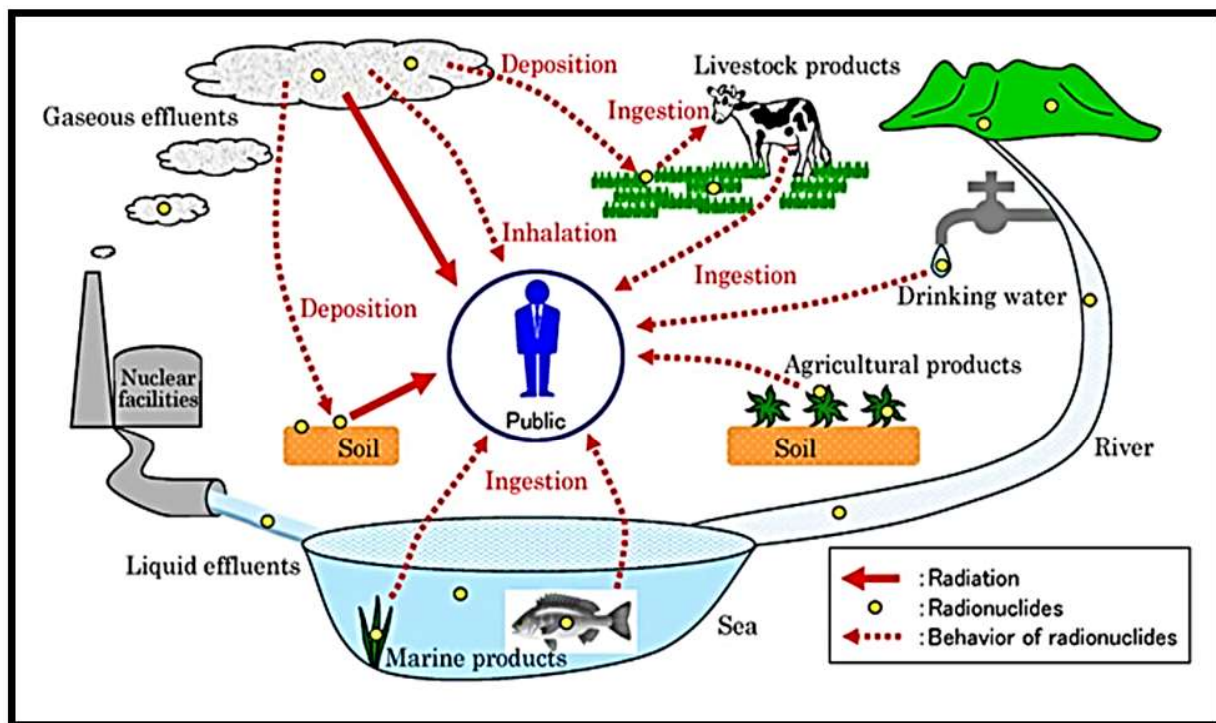


Figure 1: Potential exposure pathways to Members of the Public due to Plant Operations [7]

Quality assurance aspects of the sampling program and TLD/OSLD data collection are conducted in accordance with Regulatory Guides 4.15 [8] and 4.13 [9]. REMP also adheres to the requirements of SQN Technical Specifications, and Offsite Dose Calculation Manual (ODCM) [10]. These governing documents dictate the environmental sampling, sample analysis protocols, data reporting and quality assurance requirements for the environmental monitoring program.

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The Annual Radiological Environmental Operating Report provides summaries of the environmental data from exposure pathways, interpretations of the data, and analyses of trends of the results. Routinely monitored pathways include ingestion, inhalation, and direct radiation. Routes of exposure are based on site specific information such as meteorology, receptor locations, and water usage around the plant.

4.0 SITE DESCRIPTION AND SAMPLE LOCATIONS

Sequoyah is a two-unit pressurized water reactor commercial nuclear power plant. Fuel was loaded in Unit 1 on March 1, 1980, and the unit achieved criticality on July 5, 1980. Fuel was loaded in Unit 2 in July 1981, and the unit achieved initial criticality on November 5, 1981.

Sequoyah is located on a site near the geographical center of Hamilton County, Tennessee, on a peninsula on the western shore of Chickamauga Lake at Tennessee River Mile (TRM) 484.5. The SQN site, containing approximately 525 acres, is approximately 7.5 miles northeast of the nearest city limit of Chattanooga, Tennessee, 14 miles west-northwest of Cleveland, Tennessee, and approximately 31 miles south-southwest of TVA's Watts Bar Nuclear Plant (WBN) site.

Population is distributed unevenly within 10 miles of the SQN site. Approximately 60 percent of the population is in the general area between 5 and 10 miles from the plant in the sectors ranging from the south, clockwise, to the northwest sector. This concentration is a reflection of suburban Chattanooga and the town of Soddy-Daisy. This area is characterized by considerable open land with scattered residential subdivisions. Residential subdivision growth has continued within the 10-mile radius of the plant. There is also small-scale farming located within 5 miles of the plant.

Chickamauga Reservoir is one of a series of highly controlled multiple-use reservoirs located on the Tennessee River whose primary uses are flood control, navigation, and the generation of electric power. Secondary uses include industrial and public water supply, commercial fishing, and recreation. Public access areas, boat docks, and residential subdivisions have been developed along the reservoir shoreline. SQN sampling media are selected based on site specific information such as meteorology, receptor locations, and water usage around the plant. Sampling and analysis frequencies are documented in the Offsite Dose Calculation Manual and site procedures. Required sampling, analysis frequencies and location of sample collected are captured in the following tables and figures:

- Table 1: Radiological Environmental Sampling Program – Exposure Pathway – Direct Radiation
- Table 2: Radiological Environmental Sampling Program – Exposure Pathway - Airborne
- Table 3: Radiological Environmental Sampling Program – Exposure Pathway - Waterborne
- Table 4: Radiological Environmental Sampling Program – Exposure Pathway - Ingestion

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- Table 5: REMP Sampling Locations – Direct Radiation
- Figure 2: REMP Sample Locations (Near Field/Site Boundary)
- Figure 3: REMP Sample Locations (Far Field)
- Figure 4: REMP Sample Locations (Onsite)

RADIOLOGICAL ENVIRONMENTAL SAMPLING PROGRAM REQUIREMENTS

Table 1: Radiological Environmental Sampling Program – Exposure Pathway – Direct Radiation

Requirement	Sample Location Description, Distance, and Direction	Sampling Collection/ Frequency	Type and Frequency of Analyses
<u>Direct Radiation</u> 48 locations with 2 dosimeters each. 2 or more dosimeters placed at or near the site boundary in each of the 16 sectors. 2 or more dosimeters placed at stations located approximately 4 to 5 miles from the plant in each of the 16 sectors. 2 or more dosimeters in at least 8 additional locations of special interest.	See Table 5	Quarterly (once per 92 days)	Gamma dose quarterly (at least once per 92 days)

Table 2: Radiological Environmental Sampling Program – Exposure Pathway - Airborne

Requirement	Sample Location Description, Distance, and Direction	Sampling Collection/ Frequency	Type and Frequency of Analyses
<u>Airborne Radioiodine and Particulates</u> Samples from 12 locations: 5 samples from locations (in different sectors) at or near the site boundary (LM-2, 3, 4, 5 and 9) 3 samples from communities approximately 6 - 10 miles from plant (PM-2, 3 and 8) 4 samples from control locations 15 – 30 km from the plant (RM-1, 2, 3 and 4)	LM-2 0.7 miles N PM-2 3.8 miles SW PM-3 5.6 miles W PM-8 8.7 miles SSW RM-1 16.7 miles SW RM-2 Dayton, TN 17.8 miles NNE LM-3 2 miles SSW LM-4 1.5 miles NE LM-5 1.8 miles NNE LM-9 0.7 miles WSW RM-3 11.3 miles ESE RM-4 20 miles NW	Continuous sampler operation with sample collection weekly (more frequently if required by dust loading)	Analyze for gross beta radioactivity $\geq$ 24 hours following filter change. Perform gamma isotopic analysis on each sample if gross beta > 10 times yearly mean of control sample. Composite at least once per 31 days (by location) for gamma spectroscopy. I-131 by gamma spectroscopy on each sample.
<u>Soil</u> Samples from same 12 locations as air samples	See Above	Annually	Gamma spectroscopy, Sr-89, Sr-90

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Table 3: Radiological Environmental Sampling Program – Exposure Pathway - Waterborne

Requirement	Sample Location Description, Distance, and Direction		Sampling Collection/ Frequency	Type and Frequency of Analyses
Surface Water 1 sample upstream (control) and 1 sample downstream (indicator)	TRM 503.8 (control)	20.1 miles	Collected by automatic sequential-type sampler with composite samples collected monthly	Gamma spectroscopy on each sample. Composite for tritium analysis quarterly.
	TRM 483.4 (indicator)	0.3 miles		
Drinking Water 1 sample upstream (control) and 3 samples downstream (indicator)	TRM 503.8 (control)	20.1 miles	Monthly	Gross beta and gamma scan of each sample. Composite for tritium quarterly.
	TRM 473 (indicator)	10.7 miles		
	TRM 469.9 (indicator)	13.8 miles		
	TRM 465.3 (indicator)	18.4 miles		
Groundwater 1 control location upgradient from the plant and 1 indicator location adjacent to plant.	Well #6 (indicator)	0.15 miles	Quarterly	Gross beta, gamma spectroscopy, and tritium analysis of each sample.
	Farm HW (control)	1.2 miles		
Sediment from Shoreline 1 sample upstream (control) and 2 samples downstream (indicator)	TRM 485 (control)	1.3 miles	Semi-Annually	Gamma spectroscopy of each sample
	TRM 480 (Indicator)	3.7 miles		
	TRM 479 (Indicator)	4.7 miles		

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Table 4: Radiological Environmental Sampling Program – Exposure Pathway - Ingestion

Requirement	Sample Location Description, Distance, and Direction	Sampling Collection/Frequency	Type and Frequency of Analyses
Milk: As of 2017, the milk pathway is not applicable to SQN.	N/A	Once per 15 days	I-131 and gamma spectroscopy on each sample. Sr-89 and Sr-90 quarterly.
Fish : 1 sample of each commercially and recreationally important species in vicinity of site discharge. 1 sample of same species in areas not influenced by plant discharge.	Watts Bar Reservoir (Control) Lake Chickamauga Reservoir (TRM 485)	Semi-Annually (at least once per 184 days)	Gamma spectroscopy on edible portions
Food Products: 1 sample of each principal food products grown at private gardens and/or farms in the immediate vicinity of the plant. 1 sample of each of the same foods grown at greater than 10 miles distance from the plant.	Various	Annually at time of harvest.	Gamma spectroscopy on edible portions
Vegetation	Farm Bacon (control) 20.3 mile NNE Farm HW 1.2 miles NW	Monthly	I-131 analysis and gamma spectroscopy of each sample

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Table 5: REMP Sampling Locations – Direct Radiation

Site #	Location Type	Sector	Distance (Miles)	Description
14	Control	NW-3	20.0	RM-4
8	Special Interest	W-3	5.6	PM-3 SQN
78	Special Interest	WSW-3	5.7	Crabtree Rd
79	Special Interest	WSW-4	7.8	Love Lane
7	Outer Ring	SW-2	3.8	PM-2 SQN
77	Outer Ring	WSW-2	2.5	Ben Hall; Thrasher Lane
10	Outer Ring	WSW-2A	0.7	LM-9 SQN
76	Inner Ring	WSW-1	0.9	#1, S of Training Center Rd
75	Inner Ring	SW-1	0.7	#9 EDS
81	Inner Ring	W-1	0.6	#2 Training Ctr Rd/Igou Ferry
83	Inner Ring	WNW-1	0.4	SQN Entrance, S
73	Inner Ring	SSW-1	0.6	#29 Igou Cemetery
57	Inner Ring	ENE-1	0.2	#34 E. of Cooling Canal
85	Inner Ring	NW-1	0.4	#4 SQN Entrance; N
87	Inner Ring	NNW-1	0.6	#3 Stonesage Rd
49	Inner Ring	N-1	0.6	#13 Near LM-2 SQN
88	Inner Ring	NNW-2	1.7	Shady Grove Community
82	Outer Ring	W-2	4.3	SQ Health Center
84	Outer Ring	WNW-2	5.3	Soddy-Daisy Fire Station
86	Outer Ring	NW-2	5.2	Soddy-Daisy Water Filt. Plant
89	Outer Ring	NNW-3	5.3	Osage Drive
51	Outer Ring	N-3	5.2	Lee Pike
52	Special Interest	N-4	10.0	Railroad St., Sale Creek
13	Special Interest	ESE-3	11.3	RM-3 SQN
70	Outer Ring	SSE-2	4.6	Snow Hill Rd
68	Special Interest	SE-4	5.2	Cross Rds. Church

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Table 5: REMP Sampling Locations – Direct Radiation

Site #	Location Type	Sector	Distance (Miles)	Description
63	Outer Ring	ESE-2	4.9	Ooltewah/G' town Pike
60	Outer Ring	E-2	5.2	Smith Farm
58	Outer Ring	ENE-2	5.1	Gamble Rd., E
56	Outer Ring	NE-2	4.1	Gamble Rd., W
53	Outer Ring	NNE-2	5.3	Eldridge Rd, W of Birchwood Pk
50	Outer Ring	N-2	2.1	Dogwood Drive
5	Inner Ring	NNE-1	1.8	LM-5 SQN
55	Outer Ring	NE-1	2.4	Birchwood Pike, N
4	Inner Ring	NE-1A	1.5	LM-4 SQN
59	Inner Ring	E-1	1.2	IBEW
62	Inner Ring	ESE-1	1.2	Lakeside Rd
66	Inner Ring	SE-1	1.4	Chattanooga Water Ski Club
67	Inner Ring	SE-2	1.9	Birchwood Pike, S
69	Inner Ring	SSE-1	1.6	Harrison Bay Rd, E
71	Inner Ring	S-1	1.5	Harrison Bay Rd
90	Inner Ring	SSW-1B	1.5	Entrance to Hamilton Island
3	Inner Ring	SSW-1C	2.0	Siren Station 27, LM-3 SQN
74	Outer Ring	SSW-2	4.0	Harrison Bay State Park
72	Outer Ring	S-2	4.7	Ramsey Town Rd
9	Special Interest	SSW-3	8.7	PM-8 SQN
11	Control	SW-3	16.7	RM-1 SQN
12	Control	NNE-4	17.8	RM-2 SQN

5.0 MAPS OF COLLECTION SITES



Figure 2: REMP Sample Locations (Near Field/Site Boundary)

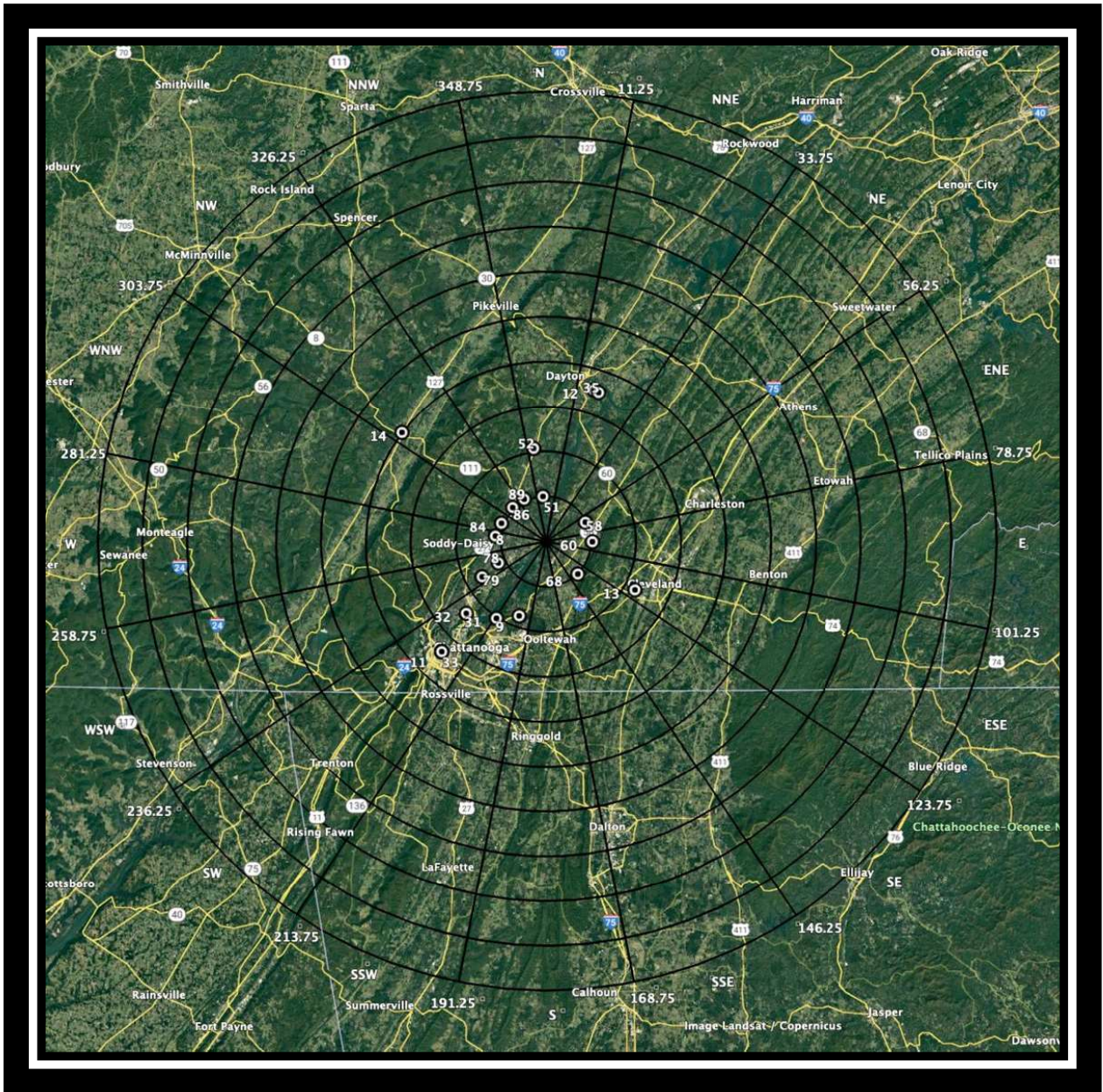


Figure 3: REMP Sample Locations (Far Field)

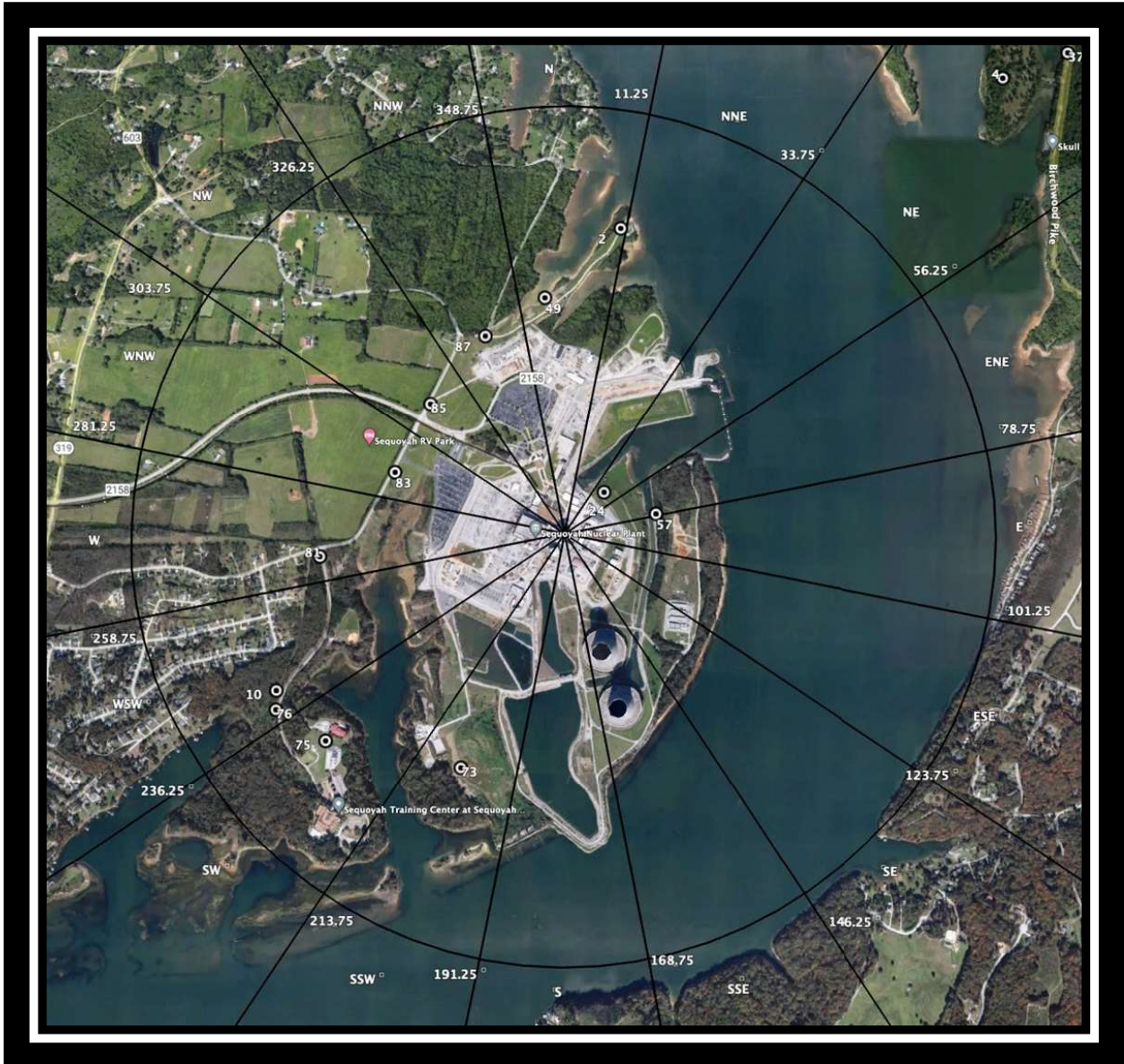


Figure 4: REMP Sample Locations (Onsite)

6.0 REPORTING LEVELS FOR RADIOACTIVITY CONCENTRATION IN ENVIRONMENTAL SAMPLES

Table 6: Reporting Levels for Radioactivity Concentrations in Environmental Samples

Radionuclide	Water (pCi/L)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/L)	Food Products (pCi/Kg-wet)
H-3	20,000 ¹	NA	NA	NA	NA
Mn-54	1,000	NA	30,000	NA	NA
Fe-59	400	NA	10,000	NA	NA
Co-58	1,000	NA	30,000	NA	NA
Co-60	300	NA	10,000	NA	NA
Zn-65	300	NA	20,000	NA	NA
Zr-Nb-95	400	NA	NA	NA	NA
I-131	2 ²	0.9	NA	3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200	NA	NA	300	NA

Table 7: Maximum Values for the Lower Limit of Detection

Radionuclide	Water (pCi/L)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/L)	Food Products (pCi/Kg-wet)	Sediment (pCi/Kg-dry)
Gross Beta	4	0.01	NA	NA	NA	NA
H-3	2,000 ³	NA	NA	NA	NA	NA
Mn-54	15	NA	130	NA	NA	NA
Fe-59	30	NA	260	NA	NA	NA
Co-58, Co-60	15	NA	130	NA	NA	NA
Zn-65	30	NA	260	NA	NA	NA
Zr-Nb-95	15	NA	NA	NA	NA	NA
I-131	1 ⁴	0.07	NA	1	60	NA
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15	NA	NA	15	NA	NA

¹ For drinking water samples: If no drinking water pathway exists, a value of 30,000 pCi/L may be used.

² If no drinking water pathway exists, a value of 20 pCi/L may be used

³ If no drinking water pathway exists, a value of 3,000 pCi/L may be used. Some states may require a lower LLD for drinking water sources- per 40CFR141 Safe drinking water Act.

⁴ If no drinking water pathway exists, a value of 15 pCi/L may be used

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7.0 SAMPLING PROGRAM, PROGRAM MODIFICATION AND INTEPRETATION OF RESULTS

At most nuclear stations, data was collected prior to plant operation to determine background radioactivity levels in the environment. Annual data is routinely compared to preoperational and/or 10-year average values to determine if changes in the environs are present. Strict comparison is difficult to make due to fallout from historical nuclear weapon testing. Cesium-137 can be routinely found in environmental samples as a result of above ground nuclear weapons testing. It is important to note, levels of Cs-137 in environment are observed to fluctuate, for example as silt distributions shift due to natural erosion and transport processes, Cs-137 may or may not be observed in sediment samples. Results from samples collected and analyzed during the year, 2024, are described below.

In the following sections, results from direct radiation, air, water, and food products analyzed as part of REMP in 2024 will be discussed. Sampling program descriptions and deviations will also be discussed.

7.1 Environmental Direct Radiation Dosimetry Sample Results

Dose is measured as net exposure (field reading less transit reading) normalized to 91-day quarters. Data is treated and analyzed consistent with American National Standards Institute (ANSI)/Health Physics Society (HPS) N13.37-2014, which compares the measured dose for each location to the baseline background dose for that location. Environmental dose rates vary by location, depending on geological and land use considerations, and remain relatively constant for any given location (unless land use changes). Some facilities observe seasonal variation in environmental doses. Baseline Background Doses have been determined for both quarterly and annual measurements at each location using historical field measurements. Minimum Differential Doses for Annual and Quarterly periods have been determined based on 3-times the 90th percentile standard deviation for monitoring locations. Doses that exceed the Minimum Differential Dose value above the Baseline Background Dose are considered Facility-Related Dose; a quality assurance review is performed to verify that any results indicating Facility-Related Dose are accurate.

ANSI/HPS N13.37-2014 uses the concept of minimum differential dose (MDD), which is the minimum facility-related dose that can be detected above the baseline background. Due to natural background variations and measurement sensitivities and uncertainties, minimum differential dose is not zero. Sequoyah data indicate a MDD based on the historical baseline measurements. If a dosimeter indicates dose greater than background plus MDD, then the net dose (above background) is reported as Facility Related Dose.

During this calendar year 2024, a total of 384 samples were collected and analyzed in accordance with the requirements in Table 1: Radiological Environmental Sampling Program – Exposure Pathway – Direct Radiation. Attachment 4, Environmental Direct Radiation Dosimetry Sample Results, includes the annual direct radiation dosimetry sample results.

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The Landauer InLight environmental dosimeter is used in the radiological environmental monitoring program for the measurement of direct radiation. This dosimeter contains four elements consisting of aluminum oxide detectors with open windows as well as plastic and copper filters. The dosimeter is processed using optically stimulated luminescence (OSL) technology to determine the amount of radiation exposure.

The dosimeters are placed approximately one meter above the ground, with two at each monitoring location. Sixteen monitoring points are located around the plant near the site boundary, one location in each of the 16 compass sectors. One monitoring point is also located in each of the 16 compass sectors at approximately four to five miles from the plant.

Dosimeters are also placed at additional monitoring locations out to approximately 32 miles from the site. The dosimeters are exchanged every three months. The dosimeters are sent to Landauer for processing and results reporting. The values are corrected for transit and shielded background exposure. An average of the two dosimeter results is calculated for each monitoring point. The environmental dosimetry program is conducted following the specifications outlined in American National Standards Institute (ANSI) and Health Physics Society (HPS) ANSI/HPS N13.37-2014 for environmental applications of dosimeters.

For reporting dose, all results for environmental dosimeter measurements are normalized to a standard quarter (91 days). In general, two direct radiation measurements are taken in each meteorological sector: one "inner ring" location within approximately 2 miles from the plant, and one "outer ring" location approximately 5 miles from the plant. In addition, control dosimeters are placed at locations further from the plant (approximately 10 – 30 miles).

Beginning in 2021, the SQN environmental dosimeters were evaluated following the guidance of ANSI N13.37-2014. The process of this evaluation is summarized below:

1. The average field dosimeter result is determined for each location.
2. The measured field dose is adjusted by the transit and shield (storage) dose to determine the net dose at each location.
3. The normalized quarterly field dose is determined by adjusting the measured field dose to account for days in the field.
4. This is repeated at each location for each quarter, and the four quarters are summed to determine the annual net dose.
5. The quarterly and annual historical baseline dose was determined for each monitoring location, based on data from 2018 – 2023.
6. The standard deviation of each historical net dose was calculated, to determine the 90th percentile standard deviation for both the quarterly and annual results.

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7. The 2024 normalized quarterly and annual doses are compared to the historical averages (plus 3 times the 90th percentile standard deviation, also known as the minimum differential dose) to determine if any facility related dose was identified at any location during any quarter or the year.

The result of the evaluation of environmental dosimeters is that there is no facility related dose measured in the environment around Sequoyah. There were no quarterly or annual dosimeters that exceeded the historical baseline plus the calculated minimum differential dose.

7.2 Airborne Pathway Sampling Results

7.2.1 Air Particulate and Radioiodine

Air particulate filters and charcoal canisters were collected from locations specified in Table 2: Radiological Environmental Sampling Program – Exposure Pathway - Airborne. During this calendar year 2024, a total of 1248 samples were collected and analyzed for gross beta, gamma emitters and iodine. Particulate samplers are used to analyze for gross beta activity following filter change out which occurs weekly. Gamma isotopic analysis is performed on composite samples collected at each location and is analyzed quarterly. Radioiodine (I-131) analysis is performed weekly on radioiodine sample cartridges.

Gross beta particulate samples will identify airborne radioactive materials, including ambient background from naturally occurring radioactive materials. The results in 2024 are consistent with previous results, and the radioactivity can be attributed to natural radioactivity. In 2024, there were no air particulate samples that identified any plant related radionuclides by gamma spectroscopy. There were no charcoal radioiodine samples that detected quantifiable radioiodine.

Refer to Figure 5: Air Particulate: Analysis for Gross Beta, Average Mean for All Indicator Vs. Control, for air particulate/ radioiodine sample trends.

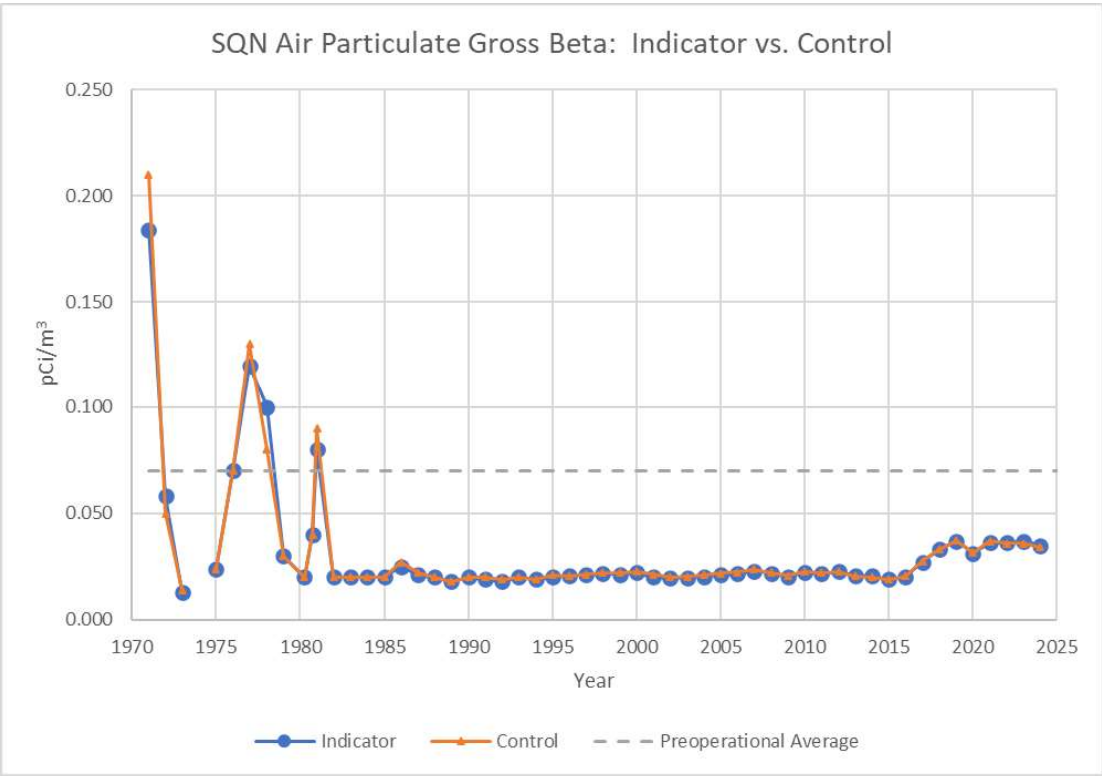


Figure 5: Air Particulate: Analysis for Gross Beta, Average Mean for All Indicator Vs. Control

Air particulate and radioiodine results from this monitoring period, 2024, were compared to preoperational data as shown in Figure 5, and there were no significant changes. Beginning in 1977, the calibration source was changed to Tc-99, accounting for the increase in beta air particulate results.

7.2.2 Soil

Soil samples were collected from locations specified in Table 2: Radiological Environmental Sampling Program – Exposure Pathway - Airborne. During this calendar year 2024, a total of 13 samples were collected and analyzed for gamma emitters and Sr-89/90.

The gamma analysis of soil samples detected Cs-137 at five indicator and three control locations. The measured concentrations of Cs-137 were consistent with levels previously reported from fallout. All other radionuclides reported were naturally occurring isotopes. The single highest soil radioactivity was from a control location sample at 0.373 pCi/g for Cs-137.

The concentrations of Cs-137 in soil are steadily decreasing due to the cessation of weapons testing in the atmosphere, the 30-year half-life of Cs-137 and transport through the environment.

Refer to Figure 6: Soil Cs-137 Radioactivity, Indicator vs. Control, for soil Cs-137 radioactivity trend.

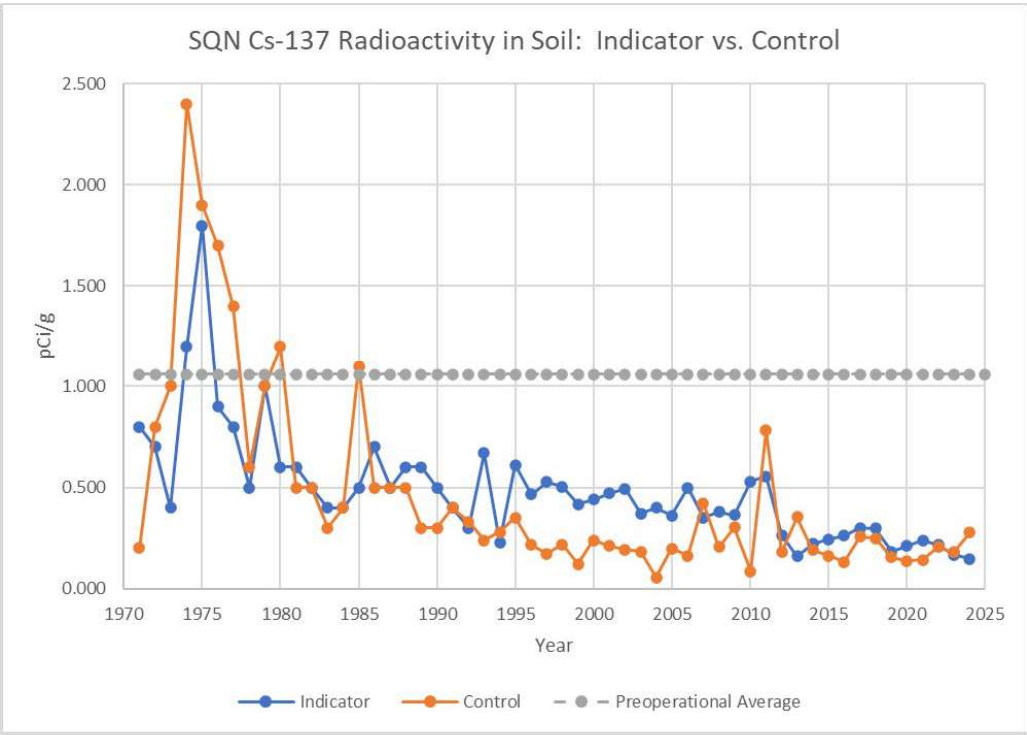


Figure 6: Soil Cs-137 Radioactivity, Indicator vs. Control

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7.3 Waterborne Sample Results

7.3.1 Surface Water (Tennessee River)

Composite water samples are collected monthly at the upstream control location and at the downstream indicator locations. Monthly composite samples are analyzed for gamma emitters. Aliquots from the monthly composites are combined to form a quarterly composites which is then analyzed for tritium. During this calendar year 2024, a total of 24 surface water samples were collected and analyzed in accordance with the requirements in the ODCM and shown in Table 3: Radiological Environmental Sampling Program – Exposure Pathway - Waterborne. No samples identified plant related radionuclides via gamma spectroscopy. Seven of the control samples (from location RM-2) were positive for tritium, up to 2380 pCi/L. This is consistent with past results, where this location historically has been intermittently positive for low levels of tritium. This location is a control location for SQN but is an indicator location for the Watts Bar nuclear site, which had ongoing tritium releases in 2024. No results for SQN downstream indicator location at TRM 483.4 was positive for tritium.

7.3.2 REMP Groundwater (Offsite Impact Monitoring)

Groundwater samples were collected from control location upgradient from the plant and indicator location down gradient from the plant. During this calendar year 2024, a total of 5 groundwater water samples were collected from offsite monitoring wells and analyzed in accordance with the requirements in the ODCM and shown in Table 3: Radiological Environmental Sampling Program – Exposure Pathway - Waterborne. A total of 4 control samples and a total of 3 indicator samples were collected. These samples were analyzed for gross beta, tritium and gamma quarterly. Groundwater is sampled from an onsite well using an automatic composite sampler; and a grab sample is collected quarterly from a private well in an area unaffected by SQN.

No plant-related radioactivity was measured in the groundwater samples. No fission or activation products were detected by the gamma spectroscopy analyses performed on groundwater samples from the REMP monitoring locations. Tritium was not detected in any collected ground water samples. Gross beta activity was detected for the control location samples, averaging 8.8 pCi/liter. These gross beta levels are representative of the levels typically found in groundwater around SQN and can be attributed to natural radioactivity.

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7.3.3 Drinking Water

A total of 65 drinking water samples were obtained in 2024. These samples were analyzed for gross beta and gamma analysis monthly and tritium quarterly in accordance with requirements in the ODCM and shown in Table 3: Radiological Environmental Sampling Program – Exposure Pathway - Waterborne. There were no fission or activation products identified by the gamma spectroscopy or gross beta analysis of drinking water samples. Tritium activity was identified in seven control drinking water samples, averaging 984 pCi/liter (maximum of 2380 pCi/L). These are the same samples/location as discussed in the surface water section, above. Nine indicator samples, all from location TRM 473, were positive for tritium at an average of 511 pCi/L. These tritium levels represented a small fraction of the EPA drinking water limit of 20,000 pCi/liter. The values were consistent with previously reported values, where tritium has intermittently been identified in SQN drinking water samples.

7.3.4 Sediment from Shoreline

Shoreline sediment collections were made in April and October 2024 and analyzed for gamma emitting radionuclides. A total of 6 shoreline samples were taken at 2 indicator and one control location. The samples were analyzed in accordance with requirements in the ODCM and shown in Table 3: Radiological Environmental Sampling Program – Exposure Pathway - Waterborne.

No fission or activation products were detected by the gamma spectroscopy performed on shoreline sediment samples from the REMP monitoring locations. All other radionuclides reported were naturally occurring isotopes.

7.4 Ingestion Pathway Sample Results

7.4.1 Fish

A total of 10 fish samples were collected in 2024. These samples were analyzed for gamma emitting radionuclides in edible portions, in accordance with requirements of the ODCM and summarized in Table 4: Radiological Environmental Sampling Program – Exposure Pathway - Ingestion. These samples are collected from the indicator and control areas as required by the ODCM.

Game fish (largemouth bass) and commercial fish (channel catfish) were sampled and analyzed from both control and indicator locations. No fission or activation products were identified in any of the samples.

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7.4.2 Food Products

A total of 8 food samples were analyzed in 2024, for gamma emitting radionuclides in edible portions in accordance with requirements of the ODCM, as summarized in Table 4: Radiological Environmental Sampling Program – Exposure Pathway - Ingestion. The food products include crops raised by individual gardens in the area near the plant, and similar products grown in areas not affected by the plant.

Radionuclides reported in food samples were all naturally occurring. Analysis of these samples indicated no contribution from plant activities.

7.4.3 Leafy Vegetation

In accordance with the ODCM and as described in Table 4: Radiological Environmental Sampling Program – Exposure Pathway - Ingestion, 24 vegetation samples were collected in lieu of milk sampling. Samples are collected and analyzed for gamma isotopic and I-131 from the indicator and control locations monthly.

The wet vegetation samples collected in 2024 did not identify any plant related radionuclides.

8.0 **LAND USE CENSUS**

An annual Land Use Census required by the Offsite Dose Calculation Manual is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and modifications to REMP are made if required by changes in land use. Land use census satisfies the requirements of Section IV.B.3 of Appendix I to 10 CFR 50 [2]. NUREG-1301/1302 Control 3.12.2 specifies that "a land use census shall be conducted and shall identify within a distance of 8 km (5 mi.) the location in each of the 16 meteorological sectors of the nearest milk animal, the nearest residence and the nearest garden of greater than 50 m² (500 ft²) producing broad leaf vegetation."

A Land Use Census was conducted during the calendar year, 2024, within the growing season to identify changes in land use, receptor locations, and new exposure pathways. The results for the 2024 Land Use Census are listed in Table 8: Land Use Census.

The location of the nearest resident changed in one sector in 2024. The location of the nearest garden greater than 500 ft² was updated in five sectors. These changes were evaluated considering the pathways of exposure and ODCM requirements, to determine if it presents a potentially higher dose pathway than currently included in REMP sampling. This evaluation determined that no changes were required to the sampling locations or sampling media as currently specified in the SQN REMP.

Table 8: Land Use Census				
Sector	Direction	Nearest Residence (meters)	Nearest Garden (meters)	Nearest Milk Animal (meters)
1	N	1389	3563	-
2	NNE	2456	3770	-
3	NE	3400	3658	-
4	ENE	1876	5220	-
5	E	1732	5062	-
6	ESE	1693	1851	-
7	SE	1721	2932	-
8	SSE	2073	3498	-
9	S	1764	3491	-
10	SSW	2059	4363	-
11	SW	2220	4920	-
12	WSW	1036	1152	-
13	W	982	2491	-
14	WNW	624	3340	-
15	NW	1316	1245	-
16	NNW	864	2520	-

9.0 SAMPLE DEVIATIONS, ANOMALIES AND UNAVAILABILITY

Sampling and analysis are performed for media types addressed in the Offsite Dose Calculation Manual. Sampling and analysis challenges may be experienced due to a multitude of reasons including environmental factors, loss of dosimeters, etc. To aid classification of sampling and analysis challenges experienced in 2024, the following three terms are used to describe the issues: Sample Anomalies (SA), Sample Deviation (SD), and Unavailable Samples (US).

Media that experienced downtime (i.e., air samplers or water samplers) during a surveillance period are classified a "Sample Deviation". "Sample Anomalies" are defined as errors that were introduced to a sample once it arrived in the laboratory, errors that prevents the sample from being analyzed as it normally would, or may have altered the outcome of the analysis (i.e., cross contamination, human error).

"Sample Unavailability" is defined as sample collection with no available sample (i.e., food crop, lost or stolen dosimeter).

All required samples were collected and analyzed as scheduled except for the following:

Table 9: Sample Deviation Summary				
Sample Type and Analysis	Location	Collection Date or Period	Reason for not conducting REMP sampling as required by ODCM	Plans for preventing reoccurrence
Well Water	Farm HW 2204	2/22/2024 Q1	Missed water sample from Farm HW	Tracked and trended
Direct Radiation	SQW-1 SQN-4 SQNE-1	Q2	Missing OSLDs during change out. Assumed to have been lost during storms.	Tracked and trended
Direct Radiation	SQSSW-1	Q3	Missing during changeout	Tracked and trended
Air Particulate Charcoal Filter	2115 RM-1	9/3/2024	Missing samples	Power restored
Public Drinking Water	2142	October and November 2024	Water was cutoff to sampling location	Sampling resumed in December.
Surface Water	2153 TRM 483.4	10/2/2024	Sample lost via FedEx/Vendor lab	Tracked and trended
Well Water	Farm HW 2204	Q3	Missed Q3 well sample, due to scheduling issues	Reviewed schedule, to ensure all future samples are scheduled
Direct Radiation	SQN-2, SQSSW-2 SQWNW-2	Q4	Missing during changeout	Tracked and Trended
Well Water	Well 6 2136	Q4	No power at well	Power restored

10.0 OTHER SUPPLEMENTAL INFORMATION

10.1 NEI 07-07 Onsite Radiological Groundwater Monitoring Program

Sequoyah has developed a Groundwater Protection Initiative (GPI) program in accordance with NEI 07-07, Industry Ground Water Protection Initiative – Final Guidance Document. The purpose of the GPI is to ensure timely detection and an effective response to situations involving inadvertent radiological releases to groundwater in order to prevent migration of licensed radioactive material off-site and to quantify impacts on decommissioning. It is important to note, samples and results taken in support of NEI 07-07 groundwater monitoring program are not part of the Radiological Environmental Monitoring Program (REMP). Results of NEI 07-07 Radiological Groundwater Monitoring Program for onsite Wells are communicated in the ARERR.

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10.2 Corrections to Previous Reports

- There are no identified errors or corrections required for previous AREORs.

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11.0 BIBLIOGRAPHY

- [1] NCRP, "Report No. 160, Ionizing Radiation Exposure of the Population of the United States," National Council on Radiation Protection, Bethesda, 2009.
- [2] "10 CFR 50, "Domestic Licensing of Production and Utilization Facilities"," US Nuclear Regulatory Commission, Washington, DC.
- [3] "Regulatory Guide 4.1, "Radiological Environmental Monitoring for Nuclear Power Plants", Revision 2," Nuclear Regulatory Commission, 2009.
- [4] "NUREG-1301, "Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Pressurized Water Reactors," .," Nuclear Regulatory Commission, April 1991.
- [5] "NUREG-1302, "Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Boiling Water Reactors,"," Nuclear Regulatory Commission, April 1991.
- [6] "Branch Technical Position, Revision 1," NRC000096, Submitted March 30, 2012, November 1979.
- [7] "Japan Atomic Energy Agency," 06 November 2020. [Online]. Available: https://www.jaea.go.jp/english/04/ntokai/houkan/houkan_02.html.
- [8] "Regulatory Guide 4.15, Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination) -- Effluent Streams and the Environment," Nuclear Regulatory Commission, July, 2007.
- [9] "Regulatory Guide 4.13, Performance, Testing, and Procedural Specifications for Thermoluminescence Dosimetry: Environmental Applications, Revision 2," Nuclear Regulatory Commission, June, 2019.
- [10] TVA, "Sequoyah Nuclear Plant Offsite Dose Calculation Manual Revision 64," 2022.
- [11] GEL, "2024 Annual Quality Assurance Report for the REMP," 2025.
- [12] "NUREG/CR-2919, "XOQDOQ Computer Program for the Meteorological Evaluation of Routine Effluent Releases at Nuclear Power Stations,"," Nuclear Regulatory Commission, September, 1982.
- [13] "Measurements of Radionuclides in the environment Sampling and Analysis of plutonium in soil," Nuclear Regulatory Commission, 1974.
- [14] "Ionizing Radiation Exposure of the Population of the United States," Bethesda, MD, 2009.
- [15] Nuclear Regulatory Commission, 30 June 2015. [Online]. Available: <http://www.nrc.gov/reading-rm/basic-ref/students/animated-pwr.html>. [Accessed October 2020].
- [16] "ICRP Publication 60, "ICRP Publication 60: 1990 Recommendations of the International Commission on Radiological Protection, 60," Annals of the ICRP Volume 21/1-3,," International Commission on Radiation Protection, October, 1991.
- [17] "NRC Resource Page," [Online]. Available: <http://www.nrc.gov/about-nrc/radiation.html>. [Accessed 10 November 2020].
- [18] "NUREG-0133, Preparation of Effluent Technical Specifications for Nuclear Power Plants," Nuclear Regulatory Commission, 1987.
- [19] [Online]. Available: <http://hps.org/hpspublications/radiationfactsheets.html>. [Accessed 2020].
- [20] "NEI 07-07, "Industry Ground Water Protection Initiative—Final Guidance Document,"," Nuclear Energy Institute, Washington, D.C..
- [21] "ANSI 13.37, Environmental Dosimetry- Criteria for System Design and Implementation," Health Physics Society (HPS), May, 2019.

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- [22] "40 CFR Part 141, "National Primary Drinking Water Regulations,"," US Environmental Protection Agency, Washington, DC..
- [23] Nuclear Regulatory Commission, 25 June 2015. [Online]. Available: <http://www.nrc.gov/reading-rm/basic-ref/students/animated-bwr.html>. [Accessed October 2020].
- [24] "40 CFR 190 - Environmental Radiation Protection Standards for Nuclear Power Operation," US Environmental Protection Agency, Washington, DC.
- [25] "NUREG-0324 - XOQDOQ, Program for the Meteorological Evaluation of Routine Effluent Releases at Nuclear Power Stations," Nuclear Regulatory Commission, September, 1977.
- [26] "NCRP Report No. 160 - Ionizing Radiation Exposure of the Population of the United States," National Council on Radiation Protection and Measurements, Bethesda, MD, 2009.
- [27] "40 CFR 141 - National Primary Drinking Water Regulations," US Environmental Protection Agency, Washington, DC..
- [28] "10 CFR 20 - Standards for Protection Against Radiation," US Nuclear Regulatory Commission, Washington, DC.
- [29] "Regulatory Guide 1.109 - Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Demonstrating Compliance with 10 CFR Part 50, Appendix I," Nuclear Regulatory Commission, October, 1977.

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Attachment 1, Data Table Summary

Medium or Pathway Sampled (Units)	Type, Total Number of Analyses performed (e.g., I-131, 400)	Lower Limit of Detection (LLD)	Indicator Mean ⁵ ; (f ⁶). Range	Location with Highest Annual Mean		Control Mean (f) Range	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean (f) Range		
Air Particulates (pCi/m ³)	Gross Beta, 624	0.01	0.035 (415/416) 0.001 – 0.075	RM-3 (control) 11.3 miles ESE	0.037 (52/52) 0.016-0.037	0.034 (208/208) 0.006 – 0.075	0
	Gamma Isotopic, 156	Various	< LLD (0/104) N/A	N/A	N/A	< LLD (0/52) N/A	0
Airborne Radioiodine (pCi/m ³)	I-131, 624	0.07	< LLD (0/416) N/A	N/A	N/A	< LLD (0/208) N/A	0
Direct Radiation (mR/Qtr.)	Gamma Dose, 371	N/A	< MDD	N/A	N/A	< MDD	0
Soil (pCi/kg)	Gamma Isotopic, 12	Various	< LLD (0/8)	N/A	N/A	< LLD (0/4)	0
	Cs-137, 12	180	147 (5/8) 63 – 254	RM-1 (control) 16.7 miles SW	708 (1/1) 708 – 708	278 (3/4) 61 – 708	0
	Sr-89, 12	N/A	< LLD (0/8) N/A	N/A	N/A	< LLD (0/4) N/A	0
	Sr-90, 12	N/A	< LLD (0/8) N/A	N/A	N/A	< LLD (0/4) N/A	0

⁵ Mean and range are based on detectable measurements only.

⁶ Fraction of detectable measurements at specified locations is indicated in parentheses.

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Medium or Pathway Sampled (Units)	Type, Total Number of Analyses performed (e.g., I-131, 400)	Lower Limit of Detection (LLD)	Indicator Mean ⁵ ; (f ⁶). Range	Location with Highest Annual Mean		Control Mean (f) Range	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean (f) Range		
Vegetation (pCi/kg-wet)	Gamma Isotopic, 24	Various	< LLD (0/12) N/A	N/A	N/A	< LLD (0/12) N/A	0
	I-131, 24	N/A	< LLD (0/12) N/A	N/A	N/A	< LLD (0/12) N/A	0
Food Products (pCi/kg)	Gamma Isotopic, 8	Various	< LLD (0/4) N/A	N/A	N/A	< LLD (0/4) N/A	0
Surface Water (pCi/L)	Gamma Isotopic, 24	Various	< LLD (0/12) N/A	N/A	N/A	< LLD (0/12) N/A	0
	Tritium, 20	2000	< LLD (0/4) N/A	RM-2 (control) 15.0 miles SW	984 (7/16) 540 – 2380	984 (7/16) 540 – 2380	0
Drinking Water (pCi/L)	Gross Beta, 51	4.0	2.43 (1/52) 2.43 – 2.43	TRM 469.9	2.43 (1/11) 2.43 – 2.43	< LLD (0/13) N/A	0
	Gamma Isotopic, 65	Various	< LLD (0/52) N/A	N/A	N/A	< LLD (0/13) N/A	0
	Tritium, 44	2000	511 (9/28) 360 – 709	RM-2 (control) 15.0 miles SW	984 (7/16) 540 – 2380	984 (7/16) 540 – 2380	0

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Medium or Pathway Sampled (Units)	Type, Total Number of Analyses performed (e.g., I-131, 400)	Lower Limit of Detection (LLD)	Indicator Mean ⁵ ; (f ⁶). Range	Location with Highest Annual Mean		Control Mean (f) Range	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean (f) Range		
Ground Water (pCi/L)	Gross Beta, 5	4.0	< LLD (0/3) N/A	HW Farm (Control) 1.2 miles NW	8.8 (2/2) 8.0 – 9.7	8.8 (2/2) 8.0 – 9.7	0
	Gamma Isotopic, 5	Various	< LLD (0/3) N/A	N/A	N/A	< LLD (0/2) N/A	0
	Tritium, 5	2000	< LLD (0/3) N/A	N/A	N/A	< LLD (0/2) N/A	0
Fish (pCi/kg-wet)	Gamma Isotopic, 10	Various	< LLD (0/5) N/A	N/A	N/A	< LLD (0/5) N/A	0
Shoreline Sediment (pCi/kg-dry)	Gamma Isotopic, 6	Various	< LLD (0/4) N/A	N/A	N/A	< LLD (0/2) N/A	0

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Attachment 2, Complete Data Table for All Analysis Results Obtained In 2024

NOTE: Qualifier

U

Target isotope was analyzed for but not detected above the MDC or LLD

UI

Uncertain identification in gamma spectroscopy

M

Reported results is less than the LLD and greater than the MDC

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	657104001	1/24/2024	Actinium-228	3.24E-03	1.45E-03	4.95E-03	pCi/m3	U
2102	659797007	2/20/2024	Actinium-228	1.32E-04	1.33E-03	4.72E-03	pCi/m3	U
2102	664161007	3/20/2024	Actinium-228	1.20E-04	1.16E-03	3.74E-03	pCi/m3	U
2102	669419003	4/16/2024	Actinium-228	-1.38E-03	1.37E-03	4.37E-03	pCi/m3	U
2102	674392007	5/14/2024	Actinium-228	4.69E-03	2.16E-03	5.32E-03	pCi/m3	U
2102	676203001	6/10/2024	Actinium-228	3.38E-03	1.89E-03	5.35E-03	pCi/m3	U
2102	682054001	7/9/2024	Actinium-228	1.51E-03	9.44E-04	3.20E-03	pCi/m3	U
2102	691730005	8/5/2024	Actinium-228	9.88E-04	2.89E-03	5.96E-03	pCi/m3	U
2102	691734010	8/27/2024	Actinium-228	6.70E-04	1.57E-03	5.46E-03	pCi/m3	U
2102	695577002	10/1/2024	Actinium-228	-1.06E-04	1.33E-03	4.47E-03	pCi/m3	U
2102	702719002	10/28/2024	Actinium-228	5.65E-03	1.51E-03	5.35E-03	pCi/m3	UI
2102	703169011	11/26/2024	Actinium-228	2.01E-03	1.18E-03	4.67E-03	pCi/m3	U
2102	706986007	12/25/2024	Actinium-228	-5.08E-04	1.16E-03	3.54E-03	pCi/m3	U
2102	657104001	1/24/2024	Americium-241	-2.02E-03	1.44E-03	3.75E-03	pCi/m3	U
2102	659797007	2/20/2024	Americium-241	-5.54E-04	7.65E-04	2.53E-03	pCi/m3	U
2102	664161007	3/20/2024	Americium-241	-1.16E-03	1.10E-03	3.48E-03	pCi/m3	U
2102	669419003	4/16/2024	Americium-241	-1.47E-04	7.15E-04	2.35E-03	pCi/m3	U
2102	674392007	5/14/2024	Americium-241	-2.68E-04	9.95E-04	3.40E-03	pCi/m3	U
2102	676203001	6/10/2024	Americium-241	1.71E-04	8.06E-04	2.81E-03	pCi/m3	U
2102	682054001	7/9/2024	Americium-241	3.00E-04	7.38E-04	2.58E-03	pCi/m3	U
2102	691730005	8/5/2024	Americium-241	-8.15E-04	1.01E-03	3.26E-03	pCi/m3	U
2102	691734010	8/27/2024	Americium-241	2.14E-04	1.68E-04	6.22E-04	pCi/m3	U
2102	695577002	10/1/2024	Americium-241	7.42E-04	9.95E-04	3.57E-03	pCi/m3	U
2102	702719002	10/28/2024	Americium-241	5.08E-04	6.54E-04	2.34E-03	pCi/m3	U
2102	703169011	11/26/2024	Americium-241	1.38E-04	1.63E-04	5.90E-04	pCi/m3	U
2102	706986007	12/25/2024	Americium-241	-1.08E-04	6.55E-04	2.18E-03	pCi/m3	U
2102	657104001	1/24/2024	Antimony-124	9.09E-04	9.59E-04	3.60E-03	pCi/m3	U
2102	659797007	2/20/2024	Antimony-124	-3.81E-04	1.11E-03	3.52E-03	pCi/m3	U
2102	664161007	3/20/2024	Antimony-124	3.80E-04	7.04E-04	2.55E-03	pCi/m3	U
2102	669419003	4/16/2024	Antimony-124	-9.32E-04	1.78E-03	5.12E-03	pCi/m3	U
2102	674392007	5/14/2024	Antimony-124	3.31E-03	2.03E-03	7.78E-03	pCi/m3	U
2102	676203001	6/10/2024	Antimony-124	-3.43E-04	9.44E-04	2.94E-03	pCi/m3	U
2102	682054001	7/9/2024	Antimony-124	-8.92E-04	1.21E-03	3.53E-03	pCi/m3	U
2102	691730005	8/5/2024	Antimony-124	-5.03E-05	2.17E-03	7.10E-03	pCi/m3	U
2102	691734010	8/27/2024	Antimony-124	-8.71E-04	1.45E-03	4.09E-03	pCi/m3	U
2102	695577002	10/1/2024	Antimony-124	2.63E-03	1.47E-03	5.83E-03	pCi/m3	U
2102	702719002	10/28/2024	Antimony-124	-4.19E-04	1.01E-03	3.02E-03	pCi/m3	U
2102	703169011	11/26/2024	Antimony-124	5.78E-04	1.19E-03	4.34E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	706986007	12/25/2024	Antimony-124	8.65E-04	6.97E-04	2.86E-03	pCi/m3	U
2102	657104001	1/24/2024	Antimony-125	-7.96E-05	6.09E-04	1.91E-03	pCi/m3	U
2102	659797007	2/20/2024	Antimony-125	-3.17E-04	5.51E-04	1.53E-03	pCi/m3	U
2102	664161007	3/20/2024	Antimony-125	-7.09E-04	5.26E-04	1.33E-03	pCi/m3	U
2102	669419003	4/16/2024	Antimony-125	4.08E-04	7.27E-04	2.51E-03	pCi/m3	U
2102	674392007	5/14/2024	Antimony-125	2.96E-05	7.90E-04	2.63E-03	pCi/m3	U
2102	676203001	6/10/2024	Antimony-125	-2.02E-04	6.35E-04	2.07E-03	pCi/m3	U
2102	682054001	7/9/2024	Antimony-125	-8.00E-04	6.26E-04	1.88E-03	pCi/m3	U
2102	691730005	8/5/2024	Antimony-125	-1.38E-03	1.02E-03	3.03E-03	pCi/m3	U
2102	691734010	8/27/2024	Antimony-125	-5.73E-04	5.17E-04	1.50E-03	pCi/m3	U
2102	695577002	10/1/2024	Antimony-125	-3.31E-05	6.19E-04	1.96E-03	pCi/m3	U
2102	702719002	10/28/2024	Antimony-125	6.15E-04	4.78E-04	1.76E-03	pCi/m3	U
2102	703169011	11/26/2024	Antimony-125	-5.21E-04	5.55E-04	1.68E-03	pCi/m3	U
2102	706986007	12/25/2024	Antimony-125	4.15E-04	4.98E-04	1.78E-03	pCi/m3	U
2102	657104001	1/24/2024	Barium-140	9.17E-03	6.22E-03	2.30E-02	pCi/m3	U
2102	659797007	2/20/2024	Barium-140	6.90E-04	4.54E-03	1.36E-02	pCi/m3	U
2102	664161007	3/20/2024	Barium-140	3.27E-05	4.11E-03	1.36E-02	pCi/m3	U
2102	669419003	4/16/2024	Barium-140	8.72E-03	1.32E-02	4.58E-02	pCi/m3	U
2102	674392007	5/14/2024	Barium-140	1.24E-02	2.66E-02	8.96E-02	pCi/m3	U
2102	676203001	6/10/2024	Barium-140	-3.98E-03	1.12E-02	3.15E-02	pCi/m3	U
2102	682054001	7/9/2024	Barium-140	-1.58E-02	1.16E-02	3.18E-02	pCi/m3	U
2102	691730005	8/5/2024	Barium-140	2.04E-01	1.20E-01	4.51E-01	pCi/m3	U
2102	691734010	8/27/2024	Barium-140	-5.67E-02	3.81E-02	9.46E-02	pCi/m3	U
2102	695577002	10/1/2024	Barium-140	-7.11E-03	1.01E-02	3.14E-02	pCi/m3	U
2102	702719002	10/28/2024	Barium-140	7.65E-03	3.85E-02	1.28E-01	pCi/m3	U
2102	703169011	11/26/2024	Barium-140	2.32E-03	1.28E-02	4.25E-02	pCi/m3	U
2102	706986007	12/25/2024	Barium-140	1.81E-02	1.01E-02	3.76E-02	pCi/m3	U
2102	657104001	1/24/2024	Beryllium-7	5.68E-02	7.26E-03	1.12E-02	pCi/m3	
2102	659797007	2/20/2024	Beryllium-7	1.08E-01	8.43E-03	7.35E-03	pCi/m3	
2102	664161007	3/20/2024	Beryllium-7	8.37E-02	7.24E-03	8.73E-03	pCi/m3	
2102	669419003	4/16/2024	Beryllium-7	1.58E-01	1.22E-02	9.34E-03	pCi/m3	
2102	674392007	5/14/2024	Beryllium-7	1.19E-01	1.11E-02	1.67E-02	pCi/m3	
2102	676203001	6/10/2024	Beryllium-7	1.14E-01	9.84E-03	1.17E-02	pCi/m3	
2102	682054001	7/9/2024	Beryllium-7	1.20E-01	1.03E-02	1.17E-02	pCi/m3	
2102	691730005	8/5/2024	Beryllium-7	9.98E-02	1.86E-02	3.11E-02	pCi/m3	
2102	691734010	8/27/2024	Beryllium-7	1.47E-01	1.29E-02	1.32E-02	pCi/m3	
2102	695577002	10/1/2024	Beryllium-7	9.48E-02	8.45E-03	1.02E-02	pCi/m3	
2102	702719002	10/28/2024	Beryllium-7	1.12E-01	1.15E-02	1.45E-02	pCi/m3	
2102	703169011	11/26/2024	Beryllium-7	8.70E-02	8.64E-03	1.29E-02	pCi/m3	
2102	706986007	12/25/2024	Beryllium-7	8.03E-02	8.55E-03	9.83E-03	pCi/m3	
2102	650210001	1/2/2024	BETA	4.10E-02	1.83E-03	1.48E-03	pCi/m3	
2102	650994001	1/8/2024	BETA	4.29E-02	1.93E-03	1.57E-03	pCi/m3	
2102	651848003	1/17/2024	BETA	4.66E-02	1.62E-03	1.04E-03	pCi/m3	
2102	652268001	1/24/2024	BETA	3.70E-02	1.69E-03	1.41E-03	pCi/m3	
2102	653178001	1/29/2024	BETA	2.07E-02	1.54E-03	1.94E-03	pCi/m3	
2102	654187015	2/6/2024	BETA	3.91E-02	1.55E-03	1.20E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	655008001	2/13/2024	BETA	2.51E-02	1.35E-03	1.37E-03	pCi/m3	
2102	655819015	2/20/2024	BETA	3.22E-02	1.44E-03	1.17E-03	pCi/m3	
2102	656511001	2/26/2024	BETA	3.64E-02	1.97E-03	1.86E-03	pCi/m3	
2102	657416001	3/4/2024	BETA	2.99E-02	1.54E-03	1.41E-03	pCi/m3	
2102	658450001	3/13/2024	BETA	2.44E-02	1.17E-03	9.64E-04	pCi/m3	
2102	659313013	3/20/2024	BETA	3.07E-02	1.49E-03	1.31E-03	pCi/m3	
2102	660083019	3/27/2024	BETA	2.51E-02	1.34E-03	1.22E-03	pCi/m3	
2102	660793013	4/2/2024	BETA	3.73E-02	1.74E-03	1.46E-03	pCi/m3	
2102	662052001	4/8/2024	BETA	2.55E-02	1.70E-03	1.93E-03	pCi/m3	
2102	662074011	4/16/2024	BETA	3.27E-02	1.56E-03	1.29E-03	pCi/m3	
2102	664092021	4/23/2024	BETA	2.98E-02	1.54E-03	1.37E-03	pCi/m3	
2102	665204011	4/29/2024	BETA	3.69E-02	1.84E-03	1.53E-03	pCi/m3	
2102	666121005	5/6/2024	BETA	2.68E-02	1.51E-03	1.44E-03	pCi/m3	
2102	667159013	5/14/2024	BETA	2.88E-02	1.60E-03	1.50E-03	pCi/m3	
2102	668220006	5/20/2024	BETA	2.43E-02	1.53E-03	1.57E-03	pCi/m3	
2102	669062019	5/28/2024	BETA	3.60E-02	1.51E-03	1.09E-03	pCi/m3	
2102	669755011	6/4/2024	BETA	2.69E-02	1.47E-03	1.41E-03	pCi/m3	
2102	670837001	6/10/2024	BETA	2.25E-02	1.29E-03	1.25E-03	pCi/m3	
2102	671897001	6/17/2024	BETA	4.13E-02	1.76E-03	1.35E-03	pCi/m3	
2102	672773003	6/25/2024	BETA	3.04E-02	1.42E-03	1.19E-03	pCi/m3	
2102	673676001	7/1/2024	BETA	3.46E-02	1.75E-03	1.53E-03	pCi/m3	
2102	674336001	7/9/2024	BETA	2.96E-02	1.38E-03	1.16E-03	pCi/m3	
2102	675686003	7/15/2024	BETA	3.71E-02	1.97E-03	1.84E-03	pCi/m3	
2102	676802003	7/23/2024	BETA	2.52E-02	1.34E-03	1.25E-03	pCi/m3	
2102	677970001	7/30/2024	BETA	3.33E-02	1.61E-03	1.41E-03	pCi/m3	
2102	679202009	8/5/2024	BETA	3.20E-02	1.75E-03	1.62E-03	pCi/m3	
2102	680237007	8/13/2024	BETA	4.79E-02	1.77E-03	1.15E-03	pCi/m3	
2102	681488001	8/19/2024	BETA	4.06E-02	1.83E-03	1.50E-03	pCi/m3	
2102	682604019	8/27/2024	BETA	4.25E-02	1.63E-03	1.16E-03	pCi/m3	
2102	683692001	9/3/2024	BETA	4.02E-02	1.74E-03	1.38E-03	pCi/m3	
2102	684664001	9/10/2024	BETA	3.98E-02	1.74E-03	1.36E-03	pCi/m3	
2102	685842001	9/17/2024	BETA	3.77E-02	3.20E-03	1.23E-03	pCi/m3	
2102	686976013	9/24/2024	BETA	3.98E-02	1.71E-03	1.32E-03	pCi/m3	
2102	687851003	10/1/2024	BETA	2.72E-02	1.37E-03	1.25E-03	pCi/m3	
2102	689079001	10/8/2024	BETA	5.08E-02	2.11E-03	1.62E-03	pCi/m3	
2102	690093001	10/15/2024	BETA	9.87E-04	3.60E-04	9.20E-04	pCi/m3	M
2102	691165017	10/22/2024	BETA	2.85E-02	1.16E-03	8.53E-04	pCi/m3	
2102	692327005	10/28/2024	BETA	7.53E-02	2.53E-03	1.51E-03	pCi/m3	
2102	693531013	11/5/2024	BETA	4.30E-02	1.63E-03	1.11E-03	pCi/m3	
2102	694911001	11/12/2024	BETA	3.42E-02	1.55E-03	1.24E-03	pCi/m3	
2102	696166019	11/19/2024	BETA	4.87E-02	1.81E-03	1.16E-03	pCi/m3	
2102	697367021	11/26/2024	BETA	3.59E-02	1.58E-03	1.35E-03	pCi/m3	
2102	698165005	12/4/2024	BETA	5.13E-02	1.81E-03	1.20E-03	pCi/m3	
2102	699433009	12/10/2024	BETA	4.89E-02	2.09E-03	1.59E-03	pCi/m3	
2102	700752021	12/17/2024	BETA	3.74E-02	1.70E-03	1.41E-03	pCi/m3	
2102	701911013	12/25/2024	BETA	3.57E-02	1.69E-03	1.42E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	657104001	1/24/2024	Bismuth-214	-3.09E-04	7.05E-04	2.35E-03	pCi/m3	U
2102	659797007	2/20/2024	Bismuth-214	5.26E-05	6.33E-04	2.11E-03	pCi/m3	U
2102	664161007	3/20/2024	Bismuth-214	2.41E-04	5.37E-04	1.78E-03	pCi/m3	U
2102	669419003	4/16/2024	Bismuth-214	6.20E-04	7.14E-04	2.39E-03	pCi/m3	U
2102	674392007	5/14/2024	Bismuth-214	2.30E-03	1.13E-03	1.94E-03	pCi/m3	UI
2102	676203001	6/10/2024	Bismuth-214	8.24E-04	8.76E-04	2.29E-03	pCi/m3	U
2102	682054001	7/9/2024	Bismuth-214	7.25E-05	7.87E-04	2.10E-03	pCi/m3	U
2102	691730005	8/5/2024	Bismuth-214	2.34E-03	1.24E-03	3.36E-03	pCi/m3	U
2102	691734010	8/27/2024	Bismuth-214	3.83E-03	1.33E-03	2.00E-03	pCi/m3	U
2102	695577002	10/1/2024	Bismuth-214	1.54E-03	7.76E-04	2.44E-03	pCi/m3	U
2102	702719002	10/28/2024	Bismuth-214	5.92E-04	8.63E-04	1.99E-03	pCi/m3	U
2102	703169011	11/26/2024	Bismuth-214	1.59E-03	6.65E-04	2.55E-03	pCi/m3	U
2102	706986007	12/25/2024	Bismuth-214	4.50E-04	6.30E-04	2.09E-03	pCi/m3	U
2102	657104001	1/24/2024	Cerium-141	5.78E-04	1.23E-03	1.84E-03	pCi/m3	U
2102	659797007	2/20/2024	Cerium-141	-5.67E-04	4.39E-04	1.32E-03	pCi/m3	U
2102	664161007	3/20/2024	Cerium-141	-6.53E-04	4.37E-04	1.27E-03	pCi/m3	U
2102	669419003	4/16/2024	Cerium-141	-1.01E-03	7.90E-04	2.33E-03	pCi/m3	U
2102	674392007	5/14/2024	Cerium-141	-2.62E-03	1.10E-03	3.18E-03	pCi/m3	U
2102	676203001	6/10/2024	Cerium-141	-6.88E-04	8.31E-04	2.36E-03	pCi/m3	U
2102	682054001	7/9/2024	Cerium-141	-9.44E-04	7.29E-04	2.06E-03	pCi/m3	U
2102	691730005	8/5/2024	Cerium-141	-9.02E-04	2.22E-03	7.02E-03	pCi/m3	U
2102	691734010	8/27/2024	Cerium-141	2.14E-04	8.35E-04	2.78E-03	pCi/m3	U
2102	695577002	10/1/2024	Cerium-141	-1.43E-03	6.86E-04	1.80E-03	pCi/m3	U
2102	702719002	10/28/2024	Cerium-141	-8.97E-04	1.03E-03	2.88E-03	pCi/m3	U
2102	703169011	11/26/2024	Cerium-141	-1.17E-03	5.83E-04	1.68E-03	pCi/m3	U
2102	706986007	12/25/2024	Cerium-141	-6.93E-04	6.23E-04	1.89E-03	pCi/m3	U
2102	657104001	1/24/2024	Cerium-144	-8.31E-04	1.08E-03	3.50E-03	pCi/m3	U
2102	659797007	2/20/2024	Cerium-144	-7.00E-04	8.70E-04	2.71E-03	pCi/m3	U
2102	664161007	3/20/2024	Cerium-144	-5.46E-04	8.92E-04	2.78E-03	pCi/m3	U
2102	669419003	4/16/2024	Cerium-144	-9.58E-04	1.26E-03	3.85E-03	pCi/m3	U
2102	674392007	5/14/2024	Cerium-144	1.15E-04	1.54E-03	5.07E-03	pCi/m3	U
2102	676203001	6/10/2024	Cerium-144	4.45E-04	1.23E-03	4.12E-03	pCi/m3	U
2102	682054001	7/9/2024	Cerium-144	-8.92E-04	9.57E-04	2.94E-03	pCi/m3	U
2102	691730005	8/5/2024	Cerium-144	-5.01E-06	1.75E-03	5.68E-03	pCi/m3	U
2102	691734010	8/27/2024	Cerium-144	-9.69E-04	1.02E-03	3.17E-03	pCi/m3	U
2102	695577002	10/1/2024	Cerium-144	1.76E-03	1.35E-03	2.91E-03	pCi/m3	U
2102	702719002	10/28/2024	Cerium-144	-1.96E-04	9.71E-04	3.14E-03	pCi/m3	U
2102	703169011	11/26/2024	Cerium-144	5.65E-04	9.89E-04	3.36E-03	pCi/m3	U
2102	706986007	12/25/2024	Cerium-144	-4.95E-04	1.00E-03	3.15E-03	pCi/m3	U
2102	657104001	1/24/2024	Cesium-134	2.85E-04	3.02E-04	1.08E-03	pCi/m3	U
2102	659797007	2/20/2024	Cesium-134	7.21E-04	2.72E-04	9.52E-04	pCi/m3	U
2102	664161007	3/20/2024	Cesium-134	-1.76E-04	2.13E-04	5.99E-04	pCi/m3	U
2102	669419003	4/16/2024	Cesium-134	2.39E-04	3.34E-04	1.15E-03	pCi/m3	U
2102	674392007	5/14/2024	Cesium-134	2.49E-04	3.55E-04	1.14E-03	pCi/m3	U
2102	676203001	6/10/2024	Cesium-134	3.62E-04	2.55E-04	9.72E-04	pCi/m3	U
2102	682054001	7/9/2024	Cesium-134	3.96E-04	2.96E-04	1.12E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	691730005	8/5/2024	Cesium-134	5.71E-04	4.72E-04	1.69E-03	pCi/m3	U
2102	691734010	8/27/2024	Cesium-134	-3.95E-04	3.78E-04	1.20E-03	pCi/m3	U
2102	695577002	10/1/2024	Cesium-134	6.12E-04	2.97E-04	1.14E-03	pCi/m3	U
2102	702719002	10/28/2024	Cesium-134	-1.79E-04	2.24E-04	6.82E-04	pCi/m3	U
2102	703169011	11/26/2024	Cesium-134	-1.44E-04	3.28E-04	1.05E-03	pCi/m3	U
2102	706986007	12/25/2024	Cesium-134	-3.86E-05	2.01E-04	5.94E-04	pCi/m3	U
2102	657104001	1/24/2024	Cesium-137	7.30E-05	2.62E-04	8.88E-04	pCi/m3	U
2102	659797007	2/20/2024	Cesium-137	1.67E-04	2.52E-04	8.66E-04	pCi/m3	U
2102	664161007	3/20/2024	Cesium-137	-1.46E-04	2.06E-04	6.18E-04	pCi/m3	U
2102	669419003	4/16/2024	Cesium-137	2.81E-04	2.18E-04	7.92E-04	pCi/m3	U
2102	674392007	5/14/2024	Cesium-137	3.79E-04	3.48E-04	1.20E-03	pCi/m3	U
2102	676203001	6/10/2024	Cesium-137	5.80E-05	2.81E-04	9.13E-04	pCi/m3	U
2102	682054001	7/9/2024	Cesium-137	-1.02E-04	2.48E-04	7.57E-04	pCi/m3	U
2102	691730005	8/5/2024	Cesium-137	-1.36E-04	4.11E-04	1.31E-03	pCi/m3	U
2102	691734010	8/27/2024	Cesium-137	7.55E-06	2.25E-04	7.24E-04	pCi/m3	U
2102	695577002	10/1/2024	Cesium-137	1.69E-04	2.65E-04	9.14E-04	pCi/m3	U
2102	702719002	10/28/2024	Cesium-137	-5.07E-04	2.56E-04	6.43E-04	pCi/m3	U
2102	703169011	11/26/2024	Cesium-137	3.46E-04	2.92E-04	1.06E-03	pCi/m3	U
2102	706986007	12/25/2024	Cesium-137	1.47E-04	2.19E-04	7.62E-04	pCi/m3	U
2102	657104001	1/24/2024	Chromium-51	1.34E-03	4.56E-03	1.50E-02	pCi/m3	U
2102	659797007	2/20/2024	Chromium-51	-1.54E-03	3.51E-03	1.17E-02	pCi/m3	U
2102	664161007	3/20/2024	Chromium-51	-2.01E-03	3.22E-03	1.06E-02	pCi/m3	U
2102	669419003	4/16/2024	Chromium-51	1.42E-02	8.90E-03	1.92E-02	pCi/m3	U
2102	674392007	5/14/2024	Chromium-51	2.95E-04	8.27E-03	2.82E-02	pCi/m3	U
2102	676203001	6/10/2024	Chromium-51	8.97E-03	9.11E-03	1.72E-02	pCi/m3	U
2102	682054001	7/9/2024	Chromium-51	1.12E-03	6.01E-03	2.07E-02	pCi/m3	U
2102	691730005	8/5/2024	Chromium-51	-1.57E-02	1.84E-02	6.00E-02	pCi/m3	U
2102	691734010	8/27/2024	Chromium-51	4.00E-03	8.29E-03	2.92E-02	pCi/m3	U
2102	695577002	10/1/2024	Chromium-51	2.60E-04	5.85E-03	1.92E-02	pCi/m3	U
2102	702719002	10/28/2024	Chromium-51	5.71E-03	9.42E-03	3.30E-02	pCi/m3	U
2102	703169011	11/26/2024	Chromium-51	6.19E-03	5.58E-03	2.03E-02	pCi/m3	U
2102	706986007	12/25/2024	Chromium-51	5.69E-03	4.45E-03	1.52E-02	pCi/m3	U
2102	657104001	1/24/2024	Cobalt-57	-6.43E-06	1.45E-04	4.89E-04	pCi/m3	U
2102	659797007	2/20/2024	Cobalt-57	6.79E-05	1.23E-04	4.22E-04	pCi/m3	U
2102	664161007	3/20/2024	Cobalt-57	-6.85E-05	1.11E-04	3.45E-04	pCi/m3	U
2102	669419003	4/16/2024	Cobalt-57	-1.10E-04	1.58E-04	4.87E-04	pCi/m3	U
2102	674392007	5/14/2024	Cobalt-57	-3.26E-05	1.69E-04	5.55E-04	pCi/m3	U
2102	676203001	6/10/2024	Cobalt-57	3.94E-04	1.62E-04	5.90E-04	pCi/m3	U
2102	682054001	7/9/2024	Cobalt-57	8.51E-05	1.31E-04	4.48E-04	pCi/m3	U
2102	691730005	8/5/2024	Cobalt-57	-4.04E-05	2.21E-04	7.15E-04	pCi/m3	U
2102	691734010	8/27/2024	Cobalt-57	-5.36E-05	1.21E-04	3.89E-04	pCi/m3	U
2102	695577002	10/1/2024	Cobalt-57	1.61E-04	1.22E-04	4.29E-04	pCi/m3	U
2102	702719002	10/28/2024	Cobalt-57	8.62E-05	1.22E-04	4.19E-04	pCi/m3	U
2102	703169011	11/26/2024	Cobalt-57	4.47E-05	1.11E-04	3.77E-04	pCi/m3	U
2102	706986007	12/25/2024	Cobalt-57	-4.70E-04	2.63E-04	4.14E-04	pCi/m3	U
2102	657104001	1/24/2024	Cobalt-58	6.85E-05	3.41E-04	1.14E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	659797007	2/20/2024	Cobalt-58	4.07E-04	2.83E-04	1.10E-03	pCi/m3	U
2102	664161007	3/20/2024	Cobalt-58	-3.01E-04	3.08E-04	7.11E-04	pCi/m3	U
2102	669419003	4/16/2024	Cobalt-58	5.07E-04	3.87E-04	1.43E-03	pCi/m3	U
2102	674392007	5/14/2024	Cobalt-58	3.23E-04	4.56E-04	1.63E-03	pCi/m3	U
2102	676203001	6/10/2024	Cobalt-58	-1.79E-04	3.65E-04	1.18E-03	pCi/m3	U
2102	682054001	7/9/2024	Cobalt-58	-1.93E-04	3.66E-04	1.17E-03	pCi/m3	U
2102	691730005	8/5/2024	Cobalt-58	6.58E-04	9.83E-04	3.35E-03	pCi/m3	U
2102	691734010	8/27/2024	Cobalt-58	-1.54E-05	4.94E-04	1.66E-03	pCi/m3	U
2102	695577002	10/1/2024	Cobalt-58	-7.96E-04	3.73E-04	9.70E-04	pCi/m3	U
2102	702719002	10/28/2024	Cobalt-58	2.64E-04	3.86E-04	1.40E-03	pCi/m3	U
2102	703169011	11/26/2024	Cobalt-58	7.52E-05	3.28E-04	1.15E-03	pCi/m3	U
2102	706986007	12/25/2024	Cobalt-58	9.46E-04	2.57E-04	1.20E-03	pCi/m3	U
2102	657104001	1/24/2024	Cobalt-60	4.04E-04	3.52E-04	1.31E-03	pCi/m3	U
2102	659797007	2/20/2024	Cobalt-60	2.28E-04	3.54E-04	1.24E-03	pCi/m3	U
2102	664161007	3/20/2024	Cobalt-60	1.11E-04	2.38E-04	8.49E-04	pCi/m3	U
2102	669419003	4/16/2024	Cobalt-60	-4.97E-04	3.87E-04	1.05E-03	pCi/m3	U
2102	674392007	5/14/2024	Cobalt-60	-3.03E-04	3.73E-04	1.07E-03	pCi/m3	U
2102	676203001	6/10/2024	Cobalt-60	1.51E-04	3.33E-04	1.13E-03	pCi/m3	U
2102	682054001	7/9/2024	Cobalt-60	-3.23E-04	3.95E-04	9.20E-04	pCi/m3	U
2102	691730005	8/5/2024	Cobalt-60	4.62E-04	3.82E-04	1.48E-03	pCi/m3	U
2102	691734010	8/27/2024	Cobalt-60	-2.01E-04	3.87E-04	1.13E-03	pCi/m3	U
2102	695577002	10/1/2024	Cobalt-60	-5.59E-05	2.42E-04	7.79E-04	pCi/m3	U
2102	702719002	10/28/2024	Cobalt-60	-2.34E-05	2.68E-04	8.48E-04	pCi/m3	U
2102	703169011	11/26/2024	Cobalt-60	1.79E-04	4.22E-04	1.44E-03	pCi/m3	U
2102	706986007	12/25/2024	Cobalt-60	-2.79E-04	2.27E-04	5.92E-04	pCi/m3	U
2102	657104001	1/24/2024	Iron-59	1.11E-03	1.04E-03	3.51E-03	pCi/m3	U
2102	659797007	2/20/2024	Iron-59	3.48E-04	9.77E-04	3.35E-03	pCi/m3	U
2102	664161007	3/20/2024	Iron-59	-1.09E-04	6.80E-04	2.25E-03	pCi/m3	U
2102	669419003	4/16/2024	Iron-59	-8.11E-04	1.05E-03	3.11E-03	pCi/m3	U
2102	674392007	5/14/2024	Iron-59	2.10E-04	1.69E-03	5.61E-03	pCi/m3	U
2102	676203001	6/10/2024	Iron-59	-2.20E-04	1.13E-03	3.63E-03	pCi/m3	U
2102	682054001	7/9/2024	Iron-59	5.67E-04	9.94E-04	3.53E-03	pCi/m3	U
2102	691730005	8/5/2024	Iron-59	-3.22E-03	2.69E-03	7.90E-03	pCi/m3	U
2102	691734010	8/27/2024	Iron-59	3.32E-03	2.24E-03	6.51E-03	pCi/m3	U
2102	695577002	10/1/2024	Iron-59	9.22E-04	7.65E-04	2.96E-03	pCi/m3	U
2102	702719002	10/28/2024	Iron-59	-3.99E-04	1.60E-03	4.36E-03	pCi/m3	U
2102	703169011	11/26/2024	Iron-59	9.92E-04	1.28E-03	4.63E-03	pCi/m3	U
2102	706986007	12/25/2024	Iron-59	-5.08E-04	7.54E-04	2.30E-03	pCi/m3	U
2102	657104001	1/24/2024	Lanthanum-140	3.32E-03	2.40E-03	9.43E-03	pCi/m3	U
2102	659797007	2/20/2024	Lanthanum-140	1.75E-03	1.77E-03	6.84E-03	pCi/m3	U
2102	664161007	3/20/2024	Lanthanum-140	2.44E-03	2.12E-03	8.16E-03	pCi/m3	U
2102	669419003	4/16/2024	Lanthanum-140	-4.56E-03	6.18E-03	1.74E-02	pCi/m3	U
2102	674392007	5/14/2024	Lanthanum-140	1.04E-02	1.20E-02	4.38E-02	pCi/m3	U
2102	676203001	6/10/2024	Lanthanum-140	-2.49E-03	4.96E-03	1.57E-02	pCi/m3	U
2102	682054001	7/9/2024	Lanthanum-140	-2.85E-03	6.20E-03	1.94E-02	pCi/m3	U
2102	691730005	8/5/2024	Lanthanum-140	-6.29E-02	3.86E-02	7.36E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	691734010	8/27/2024	Lanthanum-140	-1.19E-02	1.46E-02	4.13E-02	pCi/m3	U
2102	695577002	10/1/2024	Lanthanum-140	-3.38E-03	5.20E-03	1.52E-02	pCi/m3	U
2102	702719002	10/28/2024	Lanthanum-140	-1.04E-02	1.94E-02	6.01E-02	pCi/m3	U
2102	703169011	11/26/2024	Lanthanum-140	6.08E-04	6.29E-03	2.13E-02	pCi/m3	U
2102	706986007	12/25/2024	Lanthanum-140	7.89E-04	3.50E-03	1.06E-02	pCi/m3	U
2102	657104001	1/24/2024	Lead-210	-5.69E-03	4.64E-02	1.46E-01	pCi/m3	U
2102	659797007	2/20/2024	Lead-210	1.61E-02	3.05E-02	9.43E-02	pCi/m3	U
2102	664161007	3/20/2024	Lead-210	2.49E-02	4.88E-02	1.59E-01	pCi/m3	U
2102	669419003	4/16/2024	Lead-210	3.00E-02	3.74E-02	7.14E-02	pCi/m3	U
2102	674392007	5/14/2024	Lead-210	-5.95E-04	3.31E-02	1.16E-01	pCi/m3	U
2102	676203001	6/10/2024	Lead-210	-1.44E-02	3.37E-02	1.02E-01	pCi/m3	U
2102	682054001	7/9/2024	Lead-210	4.12E-02	2.52E-02	9.40E-02	pCi/m3	U
2102	691730005	8/5/2024	Lead-210	8.17E-03	3.26E-02	9.99E-02	pCi/m3	U
2102	691734010	8/27/2024	Lead-210	3.27E-02	4.26E-03	5.44E-03	pCi/m3	
2102	695577002	10/1/2024	Lead-210	2.73E-02	4.85E-02	1.75E-01	pCi/m3	U
2102	702719002	10/28/2024	Lead-210	3.94E-02	4.29E-02	7.72E-02	pCi/m3	U
2102	703169011	11/26/2024	Lead-210	3.75E-02	4.81E-03	5.68E-03	pCi/m3	
2102	706986007	12/25/2024	Lead-210	1.16E-02	3.58E-02	5.35E-02	pCi/m3	U
2102	657104001	1/24/2024	Lead-212	1.86E-03	7.82E-04	1.72E-03	pCi/m3	UI
2102	659797007	2/20/2024	Lead-212	1.15E-03	7.27E-04	1.13E-03	pCi/m3	UI
2102	664161007	3/20/2024	Lead-212	6.31E-04	5.32E-04	1.45E-03	pCi/m3	U
2102	669419003	4/16/2024	Lead-212	2.16E-03	8.54E-04	1.35E-03	pCi/m3	
2102	674392007	5/14/2024	Lead-212	1.75E-03	7.44E-04	1.17E-03	pCi/m3	UI
2102	676203001	6/10/2024	Lead-212	4.67E-04	5.08E-04	1.64E-03	pCi/m3	U
2102	682054001	7/9/2024	Lead-212	6.89E-04	7.08E-04	1.62E-03	pCi/m3	U
2102	691730005	8/5/2024	Lead-212	1.09E-03	1.33E-03	1.66E-03	pCi/m3	U
2102	691734010	8/27/2024	Lead-212	1.26E-03	5.58E-04	1.02E-03	pCi/m3	UI
2102	695577002	10/1/2024	Lead-212	5.61E-04	7.50E-04	9.10E-04	pCi/m3	U
2102	702719002	10/28/2024	Lead-212	5.19E-04	6.36E-04	1.47E-03	pCi/m3	U
2102	703169011	11/26/2024	Lead-212	6.12E-04	5.65E-04	8.44E-04	pCi/m3	U
2102	706986007	12/25/2024	Lead-212	3.42E-04	4.24E-04	1.40E-03	pCi/m3	U
2102	657104001	1/24/2024	Lead-214	6.19E-05	6.47E-04	2.02E-03	pCi/m3	U
2102	659797007	2/20/2024	Lead-214	-6.90E-04	5.38E-04	1.64E-03	pCi/m3	U
2102	664161007	3/20/2024	Lead-214	4.40E-05	4.53E-04	1.58E-03	pCi/m3	U
2102	669419003	4/16/2024	Lead-214	2.59E-04	6.39E-04	2.07E-03	pCi/m3	U
2102	674392007	5/14/2024	Lead-214	7.72E-04	7.41E-04	2.54E-03	pCi/m3	U
2102	676203001	6/10/2024	Lead-214	-2.40E-04	6.27E-04	1.98E-03	pCi/m3	U
2102	682054001	7/9/2024	Lead-214	1.73E-03	8.97E-04	1.98E-03	pCi/m3	U
2102	691730005	8/5/2024	Lead-214	2.18E-03	1.51E-03	2.40E-03	pCi/m3	U
2102	691734010	8/27/2024	Lead-214	1.60E-03	6.33E-04	2.41E-03	pCi/m3	U
2102	695577002	10/1/2024	Lead-214	9.38E-04	8.57E-04	1.76E-03	pCi/m3	U
2102	702719002	10/28/2024	Lead-214	-5.71E-04	5.65E-04	1.78E-03	pCi/m3	U
2102	703169011	11/26/2024	Lead-214	1.96E-03	6.71E-04	1.59E-03	pCi/m3	
2102	706986007	12/25/2024	Lead-214	-3.03E-04	4.91E-04	1.54E-03	pCi/m3	U
2102	657104001	1/24/2024	Manganese-54	1.13E-04	3.05E-04	1.03E-03	pCi/m3	U
2102	659797007	2/20/2024	Manganese-54	-2.26E-04	3.20E-04	9.79E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	664161007	3/20/2024	Manganese-54	-1.83E-04	2.43E-04	7.08E-04	pCi/m3	U
2102	669419003	4/16/2024	Manganese-54	2.66E-04	3.28E-04	1.13E-03	pCi/m3	U
2102	674392007	5/14/2024	Manganese-54	-3.24E-04	3.23E-04	9.93E-04	pCi/m3	U
2102	676203001	6/10/2024	Manganese-54	-5.38E-04	2.84E-04	7.90E-04	pCi/m3	U
2102	682054001	7/9/2024	Manganese-54	6.45E-05	2.41E-04	8.38E-04	pCi/m3	U
2102	691730005	8/5/2024	Manganese-54	-9.37E-04	4.09E-04	9.33E-04	pCi/m3	U
2102	691734010	8/27/2024	Manganese-54	4.88E-05	2.99E-04	1.03E-03	pCi/m3	U
2102	695577002	10/1/2024	Manganese-54	1.97E-05	2.83E-04	9.58E-04	pCi/m3	U
2102	702719002	10/28/2024	Manganese-54	1.38E-04	2.81E-04	9.85E-04	pCi/m3	U
2102	703169011	11/26/2024	Manganese-54	8.85E-05	2.62E-04	9.20E-04	pCi/m3	U
2102	706986007	12/25/2024	Manganese-54	-3.49E-05	2.52E-04	7.96E-04	pCi/m3	U
2102	657104001	1/24/2024	Molybdenum-99	-7.69E+00	1.84E+01	0.00E+00	pCi/m3	U
2102	659797007	2/20/2024	Molybdenum-99	4.73E+00	7.08E+00	0.00E+00	pCi/m3	UI
2102	664161007	3/20/2024	Molybdenum-99	-1.19E+01	1.37E+01	0.00E+00	pCi/m3	U
2102	669419003	4/16/2024	Molybdenum-99	-1.02E+03	1.05E+03	0.00E+00	pCi/m3	U
2102	674392007	5/14/2024	Molybdenum-99	1.01E+04	1.17E+04	0.00E+00	pCi/m3	UI
2102	676203001	6/10/2024	Molybdenum-99	-8.49E+01	1.48E+02	0.00E+00	pCi/m3	U
2102	682054001	7/9/2024	Molybdenum-99	5.81E+02	1.48E+03	0.00E+00	pCi/m3	UI
2102	691730005	8/5/2024	Molybdenum-99	1.57E+07	2.06E+07	0.00E+00	pCi/m3	UI
2102	691734010	8/27/2024	Molybdenum-99	-1.51E+04	3.67E+04	0.00E+00	pCi/m3	U
2102	695577002	10/1/2024	Molybdenum-99	-6.49E+02	1.01E+03	0.00E+00	pCi/m3	U
2102	702719002	10/28/2024	Molybdenum-99	-1.44E+05	1.44E+05	0.00E+00	pCi/m3	U
2102	703169011	11/26/2024	Molybdenum-99	5.45E+02	4.73E+02	0.00E+00	pCi/m3	UI
2102	706986007	12/25/2024	Molybdenum-99	1.25E+02	2.43E+02	0.00E+00	pCi/m3	UI
2102	657104001	1/24/2024	Niobium-95	-1.81E-04	3.90E-04	1.10E-03	pCi/m3	U
2102	659797007	2/20/2024	Niobium-95	5.12E-04	3.77E-04	1.36E-03	pCi/m3	U
2102	664161007	3/20/2024	Niobium-95	7.36E-05	2.81E-04	9.38E-04	pCi/m3	U
2102	669419003	4/16/2024	Niobium-95	7.04E-04	4.27E-04	1.61E-03	pCi/m3	U
2102	674392007	5/14/2024	Niobium-95	-1.29E-04	5.31E-04	1.77E-03	pCi/m3	U
2102	676203001	6/10/2024	Niobium-95	1.15E-05	4.21E-04	1.43E-03	pCi/m3	U
2102	682054001	7/9/2024	Niobium-95	-1.40E-05	4.22E-04	1.43E-03	pCi/m3	U
2102	691730005	8/5/2024	Niobium-95	-2.03E-03	1.24E-03	3.11E-03	pCi/m3	U
2102	691734010	8/27/2024	Niobium-95	4.20E-04	5.95E-04	2.16E-03	pCi/m3	U
2102	695577002	10/1/2024	Niobium-95	7.30E-04	3.35E-04	1.34E-03	pCi/m3	U
2102	702719002	10/28/2024	Niobium-95	-9.51E-05	5.05E-04	1.58E-03	pCi/m3	U
2102	703169011	11/26/2024	Niobium-95	-4.45E-04	2.89E-04	6.95E-04	pCi/m3	U
2102	706986007	12/25/2024	Niobium-95	-9.33E-05	3.20E-04	9.95E-04	pCi/m3	U
2102	657104001	1/24/2024	Potassium-40	1.75E-02	4.98E-03	9.63E-03	pCi/m3	U
2102	659797007	2/20/2024	Potassium-40	2.59E-03	5.03E-03	1.72E-02	pCi/m3	U
2102	664161007	3/20/2024	Potassium-40	1.42E-03	4.12E-03	1.56E-02	pCi/m3	U
2102	669419003	4/16/2024	Potassium-40	1.19E-02	5.34E-03	4.45E-03	pCi/m3	UI
2102	674392007	5/14/2024	Potassium-40	1.09E-02	7.95E-03	9.90E-03	pCi/m3	UI
2102	676203001	6/10/2024	Potassium-40	5.00E-03	5.76E-03	9.24E-03	pCi/m3	U
2102	682054001	7/9/2024	Potassium-40	1.79E-04	5.23E-03	1.77E-02	pCi/m3	U
2102	691730005	8/5/2024	Potassium-40	1.10E-02	7.77E-03	1.35E-02	pCi/m3	U
2102	691734010	8/27/2024	Potassium-40	1.22E-02	5.35E-03	1.01E-02	pCi/m3	UI

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	695577002	10/1/2024	Potassium-40	6.45E-03	4.89E-03	1.87E-02	pCi/m3	U
2102	702719002	10/28/2024	Potassium-40	5.91E-03	4.49E-03	6.11E-03	pCi/m3	U
2102	703169011	11/26/2024	Potassium-40	-2.39E-03	5.89E-03	2.02E-02	pCi/m3	U
2102	706986007	12/25/2024	Potassium-40	1.54E-02	5.79E-03	1.03E-02	pCi/m3	UI
2102	657104001	1/24/2024	Radium-226	6.19E-05	6.47E-04	2.02E-03	pCi/m3	U
2102	659797007	2/20/2024	Radium-226	-6.90E-04	5.38E-04	1.64E-03	pCi/m3	U
2102	664161007	3/20/2024	Radium-226	4.40E-05	4.53E-04	1.58E-03	pCi/m3	U
2102	669419003	4/16/2024	Radium-226	2.59E-04	6.39E-04	2.07E-03	pCi/m3	U
2102	674392007	5/14/2024	Radium-226	7.72E-04	7.41E-04	2.54E-03	pCi/m3	U
2102	676203001	6/10/2024	Radium-226	-2.40E-04	6.27E-04	1.98E-03	pCi/m3	U
2102	682054001	7/9/2024	Radium-226	1.73E-03	8.97E-04	1.98E-03	pCi/m3	U
2102	691730005	8/5/2024	Radium-226	2.18E-03	1.51E-03	2.40E-03	pCi/m3	U
2102	691734010	8/27/2024	Radium-226	1.60E-03	6.33E-04	2.41E-03	pCi/m3	U
2102	695577002	10/1/2024	Radium-226	9.38E-04	8.57E-04	1.76E-03	pCi/m3	U
2102	702719002	10/28/2024	Radium-226	-5.71E-04	5.65E-04	1.78E-03	pCi/m3	U
2102	703169011	11/26/2024	Radium-226	1.96E-03	6.71E-04	1.59E-03	pCi/m3	
2102	706986007	12/25/2024	Radium-226	-3.03E-04	4.91E-04	1.54E-03	pCi/m3	U
2102	657104001	1/24/2024	Radium-228	3.24E-03	1.45E-03	4.95E-03	pCi/m3	U
2102	659797007	2/20/2024	Radium-228	1.32E-04	1.33E-03	4.72E-03	pCi/m3	U
2102	664161007	3/20/2024	Radium-228	1.20E-04	1.16E-03	3.74E-03	pCi/m3	U
2102	669419003	4/16/2024	Radium-228	-1.38E-03	1.37E-03	4.37E-03	pCi/m3	U
2102	674392007	5/14/2024	Radium-228	4.69E-03	2.16E-03	5.32E-03	pCi/m3	U
2102	676203001	6/10/2024	Radium-228	3.38E-03	1.89E-03	5.35E-03	pCi/m3	U
2102	682054001	7/9/2024	Radium-228	1.51E-03	9.44E-04	3.20E-03	pCi/m3	U
2102	691730005	8/5/2024	Radium-228	9.88E-04	2.89E-03	5.96E-03	pCi/m3	U
2102	691734010	8/27/2024	Radium-228	6.70E-04	1.57E-03	5.46E-03	pCi/m3	U
2102	695577002	10/1/2024	Radium-228	-1.06E-04	1.33E-03	4.47E-03	pCi/m3	U
2102	702719002	10/28/2024	Radium-228	5.65E-03	1.51E-03	5.35E-03	pCi/m3	UI
2102	703169011	11/26/2024	Radium-228	2.01E-03	1.18E-03	4.67E-03	pCi/m3	U
2102	706986007	12/25/2024	Radium-228	-5.08E-04	1.16E-03	3.54E-03	pCi/m3	U
2102	657104001	1/24/2024	Ruthenium-103	3.28E-04	4.18E-04	1.48E-03	pCi/m3	U
2102	659797007	2/20/2024	Ruthenium-103	3.20E-04	3.41E-04	1.21E-03	pCi/m3	U
2102	664161007	3/20/2024	Ruthenium-103	5.38E-05	3.28E-04	1.11E-03	pCi/m3	U
2102	669419003	4/16/2024	Ruthenium-103	-5.75E-04	5.02E-04	1.47E-03	pCi/m3	U
2102	674392007	5/14/2024	Ruthenium-103	6.29E-04	7.49E-04	2.59E-03	pCi/m3	U
2102	676203001	6/10/2024	Ruthenium-103	9.02E-04	4.83E-04	1.78E-03	pCi/m3	U
2102	682054001	7/9/2024	Ruthenium-103	-1.23E-05	5.37E-04	1.76E-03	pCi/m3	U
2102	691730005	8/5/2024	Ruthenium-103	-2.34E-05	1.29E-03	4.31E-03	pCi/m3	U
2102	691734010	8/27/2024	Ruthenium-103	7.52E-04	6.50E-04	2.39E-03	pCi/m3	U
2102	695577002	10/1/2024	Ruthenium-103	4.42E-04	4.96E-04	1.77E-03	pCi/m3	U
2102	702719002	10/28/2024	Ruthenium-103	-2.58E-04	5.61E-04	1.75E-03	pCi/m3	U
2102	703169011	11/26/2024	Ruthenium-103	2.63E-04	5.65E-04	1.93E-03	pCi/m3	U
2102	706986007	12/25/2024	Ruthenium-103	8.10E-05	4.24E-04	1.43E-03	pCi/m3	U
2102	657104001	1/24/2024	Ruthenium-106	3.33E-03	2.06E-03	7.82E-03	pCi/m3	U
2102	659797007	2/20/2024	Ruthenium-106	2.10E-03	2.10E-03	7.47E-03	pCi/m3	U
2102	664161007	3/20/2024	Ruthenium-106	2.56E-03	2.05E-03	7.47E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	669419003	4/16/2024	Ruthenium-106	7.82E-04	2.63E-03	8.77E-03	pCi/m3	U
2102	674392007	5/14/2024	Ruthenium-106	-1.26E-03	3.03E-03	9.42E-03	pCi/m3	U
2102	676203001	6/10/2024	Ruthenium-106	7.98E-03	5.04E-03	6.91E-03	pCi/m3	UI
2102	682054001	7/9/2024	Ruthenium-106	-4.84E-03	2.42E-03	6.13E-03	pCi/m3	U
2102	691730005	8/5/2024	Ruthenium-106	8.12E-04	3.89E-03	1.30E-02	pCi/m3	U
2102	691734010	8/27/2024	Ruthenium-106	-2.53E-03	4.03E-03	1.07E-02	pCi/m3	U
2102	695577002	10/1/2024	Ruthenium-106	1.99E-03	2.45E-03	7.77E-03	pCi/m3	U
2102	702719002	10/28/2024	Ruthenium-106	-1.23E-06	2.38E-03	7.64E-03	pCi/m3	U
2102	703169011	11/26/2024	Ruthenium-106	-2.19E-03	2.34E-03	6.60E-03	pCi/m3	U
2102	706986007	12/25/2024	Ruthenium-106	-4.04E-03	2.38E-03	6.66E-03	pCi/m3	U
2102	657104001	1/24/2024	Selenium-75	3.43E-04	3.28E-04	1.14E-03	pCi/m3	U
2102	659797007	2/20/2024	Selenium-75	3.85E-04	3.17E-04	1.07E-03	pCi/m3	U
2102	664161007	3/20/2024	Selenium-75	-5.05E-04	2.91E-04	7.82E-04	pCi/m3	U
2102	669419003	4/16/2024	Selenium-75	6.67E-04	4.18E-04	1.42E-03	pCi/m3	U
2102	674392007	5/14/2024	Selenium-75	7.50E-04	4.47E-04	1.53E-03	pCi/m3	U
2102	676203001	6/10/2024	Selenium-75	4.61E-04	3.16E-04	1.08E-03	pCi/m3	U
2102	682054001	7/9/2024	Selenium-75	-1.41E-04	3.50E-04	1.06E-03	pCi/m3	U
2102	691730005	8/5/2024	Selenium-75	6.64E-06	5.97E-04	1.87E-03	pCi/m3	U
2102	691734010	8/27/2024	Selenium-75	3.44E-04	3.96E-04	1.32E-03	pCi/m3	U
2102	695577002	10/1/2024	Selenium-75	5.39E-04	2.81E-04	1.05E-03	pCi/m3	U
2102	702719002	10/28/2024	Selenium-75	-2.46E-04	3.06E-04	1.00E-03	pCi/m3	U
2102	703169011	11/26/2024	Selenium-75	6.84E-04	3.37E-04	1.21E-03	pCi/m3	U
2102	706986007	12/25/2024	Selenium-75	1.85E-04	3.32E-04	1.08E-03	pCi/m3	U
2102	657104001	1/24/2024	Silver-108m	2.37E-04	2.22E-04	7.57E-04	pCi/m3	U
2102	659797007	2/20/2024	Silver-108m	2.84E-04	1.72E-04	6.50E-04	pCi/m3	U
2102	664161007	3/20/2024	Silver-108m	-1.25E-05	1.47E-04	4.91E-04	pCi/m3	U
2102	669419003	4/16/2024	Silver-108m	1.36E-04	2.12E-04	7.38E-04	pCi/m3	U
2102	674392007	5/14/2024	Silver-108m	7.87E-05	2.38E-04	8.04E-04	pCi/m3	U
2102	676203001	6/10/2024	Silver-108m	1.67E-04	2.04E-04	7.13E-04	pCi/m3	U
2102	682054001	7/9/2024	Silver-108m	1.85E-06	1.77E-04	5.89E-04	pCi/m3	U
2102	691730005	8/5/2024	Silver-108m	1.11E-04	3.70E-04	1.16E-03	pCi/m3	U
2102	691734010	8/27/2024	Silver-108m	6.03E-05	2.29E-04	7.79E-04	pCi/m3	U
2102	695577002	10/1/2024	Silver-108m	-1.95E-04	1.82E-04	5.20E-04	pCi/m3	U
2102	702719002	10/28/2024	Silver-108m	3.86E-04	1.69E-04	6.53E-04	pCi/m3	U
2102	703169011	11/26/2024	Silver-108m	2.49E-04	2.12E-04	7.17E-04	pCi/m3	U
2102	706986007	12/25/2024	Silver-108m	3.62E-04	2.49E-04	6.98E-04	pCi/m3	U
2102	657104001	1/24/2024	Silver-110m	-7.45E-04	4.58E-04	1.24E-03	pCi/m3	U
2102	659797007	2/20/2024	Silver-110m	-1.61E-05	4.58E-04	1.35E-03	pCi/m3	U
2102	664161007	3/20/2024	Silver-110m	-1.79E-04	2.94E-04	8.50E-04	pCi/m3	U
2102	669419003	4/16/2024	Silver-110m	7.25E-05	3.14E-04	1.10E-03	pCi/m3	U
2102	674392007	5/14/2024	Silver-110m	1.56E-04	4.71E-04	1.62E-03	pCi/m3	U
2102	676203001	6/10/2024	Silver-110m	1.02E-03	4.22E-04	1.68E-03	pCi/m3	U
2102	682054001	7/9/2024	Silver-110m	-4.96E-04	3.35E-04	8.95E-04	pCi/m3	U
2102	691730005	8/5/2024	Silver-110m	8.98E-04	6.67E-04	2.43E-03	pCi/m3	U
2102	691734010	8/27/2024	Silver-110m	-8.69E-04	4.26E-04	9.37E-04	pCi/m3	U
2102	695577002	10/1/2024	Silver-110m	3.61E-04	3.93E-04	1.43E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	702719002	10/28/2024	Silver-110m	-8.67E-05	3.53E-04	1.15E-03	pCi/m3	U
2102	703169011	11/26/2024	Silver-110m	3.77E-04	4.34E-04	1.61E-03	pCi/m3	U
2102	706986007	12/25/2024	Silver-110m	-2.16E-04	4.94E-04	1.32E-03	pCi/m3	U
2102	657104001	1/24/2024	Tellurium-132	-1.07E-01	5.02E-01	0.00E+00	pCi/m3	U
2102	659797007	2/20/2024	Tellurium-132	-4.38E-02	1.54E-01	0.00E+00	pCi/m3	U
2102	664161007	3/20/2024	Tellurium-132	1.03E-01	3.52E-01	0.00E+00	pCi/m3	UI
2102	669419003	4/16/2024	Tellurium-132	7.16E-01	1.34E+01	0.00E+00	pCi/m3	UI
2102	674392007	5/14/2024	Tellurium-132	7.34E+01	1.14E+02	0.00E+00	pCi/m3	UI
2102	676203001	6/10/2024	Tellurium-132	-4.20E+00	2.37E+00	0.00E+00	pCi/m3	U
2102	682054001	7/9/2024	Tellurium-132	1.34E+01	1.51E+01	0.00E+00	pCi/m3	UI
2102	691730005	8/5/2024	Tellurium-132	-2.46E+04	4.73E+04	0.00E+00	pCi/m3	U
2102	691734010	8/27/2024	Tellurium-132	-3.98E+01	2.87E+02	0.00E+00	pCi/m3	U
2102	695577002	10/1/2024	Tellurium-132	-1.79E+00	8.85E+00	0.00E+00	pCi/m3	U
2102	702719002	10/28/2024	Tellurium-132	8.68E+02	1.10E+03	0.00E+00	pCi/m3	UI
2102	703169011	11/26/2024	Tellurium-132	-1.11E+01	6.43E+00	0.00E+00	pCi/m3	U
2102	706986007	12/25/2024	Tellurium-132	6.76E+00	3.89E+00	0.00E+00	pCi/m3	UI
2102	657104001	1/24/2024	Thallium-208	-5.10E-05	3.55E-04	1.13E-03	pCi/m3	U
2102	659797007	2/20/2024	Thallium-208	3.40E-04	4.54E-04	8.74E-04	pCi/m3	U
2102	664161007	3/20/2024	Thallium-208	1.35E-04	4.44E-04	6.76E-04	pCi/m3	U
2102	669419003	4/16/2024	Thallium-208	7.46E-05	6.18E-04	8.20E-04	pCi/m3	U
2102	674392007	5/14/2024	Thallium-208	4.78E-05	3.79E-04	1.14E-03	pCi/m3	U
2102	676203001	6/10/2024	Thallium-208	8.69E-04	5.78E-04	8.45E-04	pCi/m3	UI
2102	682054001	7/9/2024	Thallium-208	1.70E-04	3.20E-04	1.07E-03	pCi/m3	U
2102	691730005	8/5/2024	Thallium-208	5.40E-04	6.31E-04	1.19E-03	pCi/m3	U
2102	691734010	8/27/2024	Thallium-208	-2.03E-04	3.16E-04	8.97E-04	pCi/m3	U
2102	695577002	10/1/2024	Thallium-208	1.21E-04	2.87E-04	9.13E-04	pCi/m3	U
2102	702719002	10/28/2024	Thallium-208	4.62E-04	2.92E-04	6.99E-04	pCi/m3	U
2102	703169011	11/26/2024	Thallium-208	7.09E-04	4.05E-04	7.73E-04	pCi/m3	U
2102	706986007	12/25/2024	Thallium-208	-5.62E-04	3.00E-04	8.69E-04	pCi/m3	U
2102	657104001	1/24/2024	Thorium-228	1.86E-03	7.82E-04	1.72E-03	pCi/m3	UI
2102	659797007	2/20/2024	Thorium-228	1.15E-03	7.27E-04	1.13E-03	pCi/m3	UI
2102	664161007	3/20/2024	Thorium-228	6.31E-04	5.32E-04	1.45E-03	pCi/m3	U
2102	669419003	4/16/2024	Thorium-228	2.16E-03	8.54E-04	1.35E-03	pCi/m3	
2102	674392007	5/14/2024	Thorium-228	1.75E-03	7.44E-04	1.17E-03	pCi/m3	UI
2102	676203001	6/10/2024	Thorium-228	4.67E-04	5.08E-04	1.64E-03	pCi/m3	U
2102	682054001	7/9/2024	Thorium-228	6.89E-04	7.08E-04	1.62E-03	pCi/m3	U
2102	691730005	8/5/2024	Thorium-228	1.09E-03	1.33E-03	1.66E-03	pCi/m3	U
2102	691734010	8/27/2024	Thorium-228	1.26E-03	5.58E-04	1.02E-03	pCi/m3	UI
2102	695577002	10/1/2024	Thorium-228	5.61E-04	7.50E-04	9.10E-04	pCi/m3	U
2102	702719002	10/28/2024	Thorium-228	5.19E-04	6.36E-04	1.47E-03	pCi/m3	U
2102	703169011	11/26/2024	Thorium-228	6.12E-04	5.65E-04	8.44E-04	pCi/m3	U
2102	706986007	12/25/2024	Thorium-228	3.42E-04	4.24E-04	1.40E-03	pCi/m3	U
2102	657104001	1/24/2024	Thorium-230	6.19E-05	6.47E-04	2.02E-03	pCi/m3	U
2102	659797007	2/20/2024	Thorium-230	-6.90E-04	5.38E-04	1.64E-03	pCi/m3	U
2102	664161007	3/20/2024	Thorium-230	4.40E-05	4.53E-04	1.58E-03	pCi/m3	U
2102	669419003	4/16/2024	Thorium-230	2.59E-04	6.39E-04	2.07E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	674392007	5/14/2024	Thorium-230	7.72E-04	7.41E-04	2.54E-03	pCi/m3	U
2102	676203001	6/10/2024	Thorium-230	-2.40E-04	6.27E-04	1.98E-03	pCi/m3	U
2102	682054001	7/9/2024	Thorium-230	1.73E-03	8.97E-04	1.98E-03	pCi/m3	U
2102	691730005	8/5/2024	Thorium-230	2.18E-03	1.51E-03	2.40E-03	pCi/m3	U
2102	691734010	8/27/2024	Thorium-230	1.60E-03	6.33E-04	2.41E-03	pCi/m3	U
2102	695577002	10/1/2024	Thorium-230	9.38E-04	8.57E-04	1.76E-03	pCi/m3	U
2102	702719002	10/28/2024	Thorium-230	-5.71E-04	5.65E-04	1.78E-03	pCi/m3	U
2102	703169011	11/26/2024	Thorium-230	1.96E-03	6.71E-04	1.59E-03	pCi/m3	
2102	706986007	12/25/2024	Thorium-230	-3.03E-04	4.91E-04	1.54E-03	pCi/m3	U
2102	657104001	1/24/2024	Thorium-232	3.24E-03	1.45E-03	4.95E-03	pCi/m3	U
2102	659797007	2/20/2024	Thorium-232	1.32E-04	1.33E-03	4.72E-03	pCi/m3	U
2102	664161007	3/20/2024	Thorium-232	1.20E-04	1.16E-03	3.74E-03	pCi/m3	U
2102	669419003	4/16/2024	Thorium-232	-1.38E-03	1.37E-03	4.37E-03	pCi/m3	U
2102	674392007	5/14/2024	Thorium-232	4.69E-03	2.16E-03	5.32E-03	pCi/m3	U
2102	676203001	6/10/2024	Thorium-232	3.38E-03	1.89E-03	5.35E-03	pCi/m3	U
2102	682054001	7/9/2024	Thorium-232	1.51E-03	9.44E-04	3.20E-03	pCi/m3	U
2102	691730005	8/5/2024	Thorium-232	9.88E-04	2.89E-03	5.96E-03	pCi/m3	U
2102	691734010	8/27/2024	Thorium-232	6.70E-04	1.57E-03	5.46E-03	pCi/m3	U
2102	695577002	10/1/2024	Thorium-232	-1.06E-04	1.33E-03	4.47E-03	pCi/m3	U
2102	702719002	10/28/2024	Thorium-232	5.65E-03	1.51E-03	5.35E-03	pCi/m3	UI
2102	703169011	11/26/2024	Thorium-232	2.01E-03	1.18E-03	4.67E-03	pCi/m3	U
2102	706986007	12/25/2024	Thorium-232	-5.08E-04	1.16E-03	3.54E-03	pCi/m3	U
2102	657104001	1/24/2024	Thorium-234	6.65E-03	2.00E-02	3.13E-02	pCi/m3	U
2102	659797007	2/20/2024	Thorium-234	-1.45E-02	7.49E-03	2.36E-02	pCi/m3	U
2102	664161007	3/20/2024	Thorium-234	-4.09E-03	1.06E-02	3.51E-02	pCi/m3	U
2102	669419003	4/16/2024	Thorium-234	-6.76E-03	7.80E-03	2.55E-02	pCi/m3	U
2102	674392007	5/14/2024	Thorium-234	9.35E-03	1.57E-02	2.82E-02	pCi/m3	U
2102	676203001	6/10/2024	Thorium-234	1.19E-02	1.50E-02	3.19E-02	pCi/m3	U
2102	682054001	7/9/2024	Thorium-234	-8.20E-03	7.84E-03	2.43E-02	pCi/m3	U
2102	691730005	8/5/2024	Thorium-234	-1.88E-02	1.06E-02	3.14E-02	pCi/m3	U
2102	691734010	8/27/2024	Thorium-234	2.91E-03	1.69E-03	6.37E-03	pCi/m3	U
2102	695577002	10/1/2024	Thorium-234	5.85E-04	1.14E-02	2.83E-02	pCi/m3	U
2102	702719002	10/28/2024	Thorium-234	5.32E-03	7.98E-03	1.93E-02	pCi/m3	U
2102	703169011	11/26/2024	Thorium-234	1.73E-03	1.54E-03	5.65E-03	pCi/m3	U
2102	706986007	12/25/2024	Thorium-234	-1.92E-03	8.09E-03	2.75E-02	pCi/m3	U
2102	657104001	1/24/2024	Uranium-234	6.19E-05	6.47E-04	2.02E-03	pCi/m3	U
2102	659797007	2/20/2024	Uranium-234	-6.90E-04	5.38E-04	1.64E-03	pCi/m3	U
2102	664161007	3/20/2024	Uranium-234	4.40E-05	4.53E-04	1.58E-03	pCi/m3	U
2102	669419003	4/16/2024	Uranium-234	2.59E-04	6.39E-04	2.07E-03	pCi/m3	U
2102	674392007	5/14/2024	Uranium-234	7.72E-04	7.41E-04	2.54E-03	pCi/m3	U
2102	676203001	6/10/2024	Uranium-234	-2.40E-04	6.27E-04	1.98E-03	pCi/m3	U
2102	682054001	7/9/2024	Uranium-234	1.73E-03	8.97E-04	1.98E-03	pCi/m3	U
2102	691730005	8/5/2024	Uranium-234	2.18E-03	1.51E-03	2.40E-03	pCi/m3	U
2102	691734010	8/27/2024	Uranium-234	1.60E-03	6.33E-04	2.41E-03	pCi/m3	U
2102	695577002	10/1/2024	Uranium-234	9.38E-04	8.57E-04	1.76E-03	pCi/m3	U
2102	702719002	10/28/2024	Uranium-234	-5.71E-04	5.65E-04	1.78E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	703169011	11/26/2024	Uranium-234	1.96E-03	6.71E-04	1.59E-03	pCi/m3	
2102	706986007	12/25/2024	Uranium-234	-3.03E-04	4.91E-04	1.54E-03	pCi/m3	U
2102	657104001	1/24/2024	Zinc-65	-7.13E-04	6.61E-04	1.97E-03	pCi/m3	U
2102	659797007	2/20/2024	Zinc-65	-7.28E-04	7.33E-04	2.14E-03	pCi/m3	U
2102	664161007	3/20/2024	Zinc-65	-8.75E-04	4.82E-04	1.16E-03	pCi/m3	U
2102	669419003	4/16/2024	Zinc-65	6.97E-04	6.03E-04	2.18E-03	pCi/m3	U
2102	674392007	5/14/2024	Zinc-65	-1.82E-03	8.93E-04	2.30E-03	pCi/m3	U
2102	676203001	6/10/2024	Zinc-65	-1.06E-04	6.45E-04	2.07E-03	pCi/m3	U
2102	682054001	7/9/2024	Zinc-65	3.91E-04	6.32E-04	2.24E-03	pCi/m3	U
2102	691730005	8/5/2024	Zinc-65	-1.08E-04	1.08E-03	3.62E-03	pCi/m3	U
2102	691734010	8/27/2024	Zinc-65	8.44E-04	1.08E-03	3.52E-03	pCi/m3	U
2102	695577002	10/1/2024	Zinc-65	2.22E-04	6.66E-04	2.26E-03	pCi/m3	U
2102	702719002	10/28/2024	Zinc-65	-2.07E-04	6.96E-04	2.20E-03	pCi/m3	U
2102	703169011	11/26/2024	Zinc-65	1.28E-05	6.95E-04	2.29E-03	pCi/m3	U
2102	706986007	12/25/2024	Zinc-65	6.83E-05	6.87E-04	2.33E-03	pCi/m3	U
2102	657104001	1/24/2024	Zirconium-95	8.66E-04	6.67E-04	2.44E-03	pCi/m3	U
2102	659797007	2/20/2024	Zirconium-95	-3.59E-04	6.18E-04	1.82E-03	pCi/m3	U
2102	664161007	3/20/2024	Zirconium-95	-1.02E-04	4.81E-04	1.51E-03	pCi/m3	U
2102	669419003	4/16/2024	Zirconium-95	2.91E-04	8.85E-04	2.64E-03	pCi/m3	U
2102	674392007	5/14/2024	Zirconium-95	-1.70E-04	9.56E-04	2.96E-03	pCi/m3	U
2102	676203001	6/10/2024	Zirconium-95	1.67E-05	6.28E-04	2.13E-03	pCi/m3	U
2102	682054001	7/9/2024	Zirconium-95	-1.62E-03	7.28E-04	1.90E-03	pCi/m3	U
2102	691730005	8/5/2024	Zirconium-95	8.05E-05	1.55E-03	5.05E-03	pCi/m3	U
2102	691734010	8/27/2024	Zirconium-95	1.21E-03	1.03E-03	3.92E-03	pCi/m3	U
2102	695577002	10/1/2024	Zirconium-95	-9.86E-04	5.99E-04	1.47E-03	pCi/m3	U
2102	702719002	10/28/2024	Zirconium-95	-3.88E-04	9.42E-04	2.95E-03	pCi/m3	U
2102	703169011	11/26/2024	Zirconium-95	1.82E-03	7.29E-04	3.11E-03	pCi/m3	U
2102	706986007	12/25/2024	Zirconium-95	-1.95E-04	6.05E-04	1.88E-03	pCi/m3	U
2106	657104002	1/23/2024	Actinium-228	-6.27E-04	1.17E-03	3.90E-03	pCi/m3	U
2106	659797008	2/21/2024	Actinium-228	-1.06E-03	1.32E-03	4.12E-03	pCi/m3	U
2106	664161008	3/19/2024	Actinium-228	-1.20E-03	1.67E-03	5.21E-03	pCi/m3	U
2106	669419010	4/15/2024	Actinium-228	5.47E-04	1.99E-03	4.62E-03	pCi/m3	U
2106	674392008	5/13/2024	Actinium-228	1.22E-03	1.75E-03	4.41E-03	pCi/m3	U
2106	676203008	6/11/2024	Actinium-228	-2.75E-04	1.35E-03	4.42E-03	pCi/m3	U
2106	682054002	7/9/2024	Actinium-228	4.71E-03	2.14E-03	5.24E-03	pCi/m3	U
2106	691730006	8/6/2024	Actinium-228	2.62E-03	2.54E-03	6.67E-03	pCi/m3	U
2106	691734009	8/27/2024	Actinium-228	1.59E-03	1.58E-03	3.90E-03	pCi/m3	U
2106	695577004	10/1/2024	Actinium-228	-6.99E-04	1.38E-03	4.43E-03	pCi/m3	U
2106	702719003	10/28/2024	Actinium-228	1.06E-03	1.35E-03	3.11E-03	pCi/m3	U
2106	703169009	11/26/2024	Actinium-228	1.38E-03	1.11E-03	3.70E-03	pCi/m3	U
2106	706986006	12/25/2024	Actinium-228	3.02E-03	1.06E-03	4.42E-03	pCi/m3	U
2106	657104002	1/23/2024	Americium-241	1.27E-03	7.93E-04	2.80E-03	pCi/m3	U
2106	659797008	2/21/2024	Americium-241	-9.93E-04	7.07E-04	2.05E-03	pCi/m3	U
2106	664161008	3/19/2024	Americium-241	9.55E-05	3.31E-04	9.65E-04	pCi/m3	U
2106	669419010	4/15/2024	Americium-241	-1.35E-03	1.71E-03	5.28E-03	pCi/m3	U
2106	674392008	5/13/2024	Americium-241	1.88E-04	6.49E-04	2.21E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	676203008	6/11/2024	Americium-241	-1.20E-04	9.94E-04	3.24E-03	pCi/m3	U
2106	682054002	7/9/2024	Americium-241	-2.01E-03	9.20E-04	2.58E-03	pCi/m3	U
2106	691730006	8/6/2024	Americium-241	2.91E-04	2.23E-04	8.34E-04	pCi/m3	U
2106	691734009	8/27/2024	Americium-241	-1.47E-04	4.33E-04	1.44E-03	pCi/m3	U
2106	695577004	10/1/2024	Americium-241	-1.29E-04	8.10E-04	2.78E-03	pCi/m3	U
2106	702719003	10/28/2024	Americium-241	7.77E-04	3.93E-04	1.33E-03	pCi/m3	U
2106	703169009	11/26/2024	Americium-241	-5.73E-04	4.87E-04	1.37E-03	pCi/m3	U
2106	706986006	12/25/2024	Americium-241	-1.04E-04	1.26E-04	4.14E-04	pCi/m3	U
2106	657104002	1/23/2024	Antimony-124	-1.18E-03	1.12E-03	3.12E-03	pCi/m3	U
2106	659797008	2/21/2024	Antimony-124	1.82E-04	9.13E-04	3.04E-03	pCi/m3	U
2106	664161008	3/19/2024	Antimony-124	-7.18E-04	1.31E-03	3.96E-03	pCi/m3	U
2106	669419010	4/15/2024	Antimony-124	2.29E-07	1.36E-03	4.47E-03	pCi/m3	U
2106	674392008	5/13/2024	Antimony-124	-1.26E-03	1.64E-03	4.80E-03	pCi/m3	U
2106	676203008	6/11/2024	Antimony-124	-4.18E-04	1.25E-03	3.89E-03	pCi/m3	U
2106	682054002	7/9/2024	Antimony-124	-8.44E-04	1.47E-03	3.76E-03	pCi/m3	U
2106	691730006	8/6/2024	Antimony-124	1.89E-04	3.54E-03	1.19E-02	pCi/m3	U
2106	691734009	8/27/2024	Antimony-124	-4.56E-04	7.65E-04	2.03E-03	pCi/m3	U
2106	695577004	10/1/2024	Antimony-124	2.77E-05	7.90E-04	2.64E-03	pCi/m3	U
2106	702719003	10/28/2024	Antimony-124	1.14E-03	1.07E-03	3.93E-03	pCi/m3	U
2106	703169009	11/26/2024	Antimony-124	1.25E-03	8.31E-04	3.33E-03	pCi/m3	U
2106	706986006	12/25/2024	Antimony-124	-5.15E-04	6.23E-04	1.46E-03	pCi/m3	U
2106	657104002	1/23/2024	Antimony-125	-2.55E-04	6.05E-04	1.96E-03	pCi/m3	U
2106	659797008	2/21/2024	Antimony-125	-1.01E-03	5.88E-04	1.70E-03	pCi/m3	U
2106	664161008	3/19/2024	Antimony-125	-1.38E-03	6.94E-04	1.81E-03	pCi/m3	U
2106	669419010	4/15/2024	Antimony-125	-9.88E-04	9.00E-04	2.35E-03	pCi/m3	U
2106	674392008	5/13/2024	Antimony-125	4.16E-04	6.34E-04	2.22E-03	pCi/m3	U
2106	676203008	6/11/2024	Antimony-125	1.44E-03	6.17E-04	2.38E-03	pCi/m3	U
2106	682054002	7/9/2024	Antimony-125	3.31E-04	7.47E-04	2.30E-03	pCi/m3	U
2106	691730006	8/6/2024	Antimony-125	-2.18E-04	8.66E-04	2.82E-03	pCi/m3	U
2106	691734009	8/27/2024	Antimony-125	-3.69E-04	4.33E-04	1.35E-03	pCi/m3	U
2106	695577004	10/1/2024	Antimony-125	5.59E-04	5.95E-04	2.09E-03	pCi/m3	U
2106	702719003	10/28/2024	Antimony-125	-1.75E-04	4.06E-04	1.31E-03	pCi/m3	U
2106	703169009	11/26/2024	Antimony-125	2.79E-04	4.54E-04	1.58E-03	pCi/m3	U
2106	706986006	12/25/2024	Antimony-125	1.86E-04	4.56E-04	1.57E-03	pCi/m3	U
2106	657104002	1/23/2024	Barium-140	9.56E-03	6.74E-03	2.44E-02	pCi/m3	U
2106	659797008	2/21/2024	Barium-140	7.37E-03	3.94E-03	1.50E-02	pCi/m3	U
2106	664161008	3/19/2024	Barium-140	-3.15E-03	6.09E-03	1.68E-02	pCi/m3	U
2106	669419010	4/15/2024	Barium-140	3.75E-02	1.72E-02	6.34E-02	pCi/m3	U
2106	674392008	5/13/2024	Barium-140	5.29E-03	2.25E-02	7.62E-02	pCi/m3	U
2106	676203008	6/11/2024	Barium-140	7.72E-03	7.47E-03	2.68E-02	pCi/m3	U
2106	682054002	7/9/2024	Barium-140	2.52E-03	1.47E-02	4.84E-02	pCi/m3	U
2106	691730006	8/6/2024	Barium-140	-1.07E-01	1.73E-01	4.84E-01	pCi/m3	U
2106	691734009	8/27/2024	Barium-140	-2.05E-02	2.58E-02	7.04E-02	pCi/m3	U
2106	695577004	10/1/2024	Barium-140	9.80E-03	1.33E-02	4.57E-02	pCi/m3	U
2106	702719003	10/28/2024	Barium-140	1.02E-02	2.40E-02	8.13E-02	pCi/m3	U
2106	703169009	11/26/2024	Barium-140	8.12E-03	1.03E-02	3.24E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	706986006	12/25/2024	Barium-140	3.89E-03	8.64E-03	2.95E-02	pCi/m3	U
2106	657104002	1/23/2024	Beryllium-7	5.65E-02	6.59E-03	7.36E-03	pCi/m3	
2106	659797008	2/21/2024	Beryllium-7	9.94E-02	7.35E-03	7.30E-03	pCi/m3	
2106	664161008	3/19/2024	Beryllium-7	9.84E-02	8.85E-03	1.09E-02	pCi/m3	
2106	669419010	4/15/2024	Beryllium-7	1.28E-01	9.65E-03	1.15E-02	pCi/m3	
2106	674392008	5/13/2024	Beryllium-7	1.15E-01	1.09E-02	1.36E-02	pCi/m3	
2106	676203008	6/11/2024	Beryllium-7	1.33E-01	1.08E-02	1.03E-02	pCi/m3	
2106	682054002	7/9/2024	Beryllium-7	1.20E-01	1.12E-02	1.14E-02	pCi/m3	
2106	691730006	8/6/2024	Beryllium-7	1.43E-01	2.30E-02	2.64E-02	pCi/m3	
2106	691734009	8/27/2024	Beryllium-7	1.27E-01	1.03E-02	1.21E-02	pCi/m3	
2106	695577004	10/1/2024	Beryllium-7	8.54E-02	8.62E-03	1.14E-02	pCi/m3	
2106	702719003	10/28/2024	Beryllium-7	1.28E-01	9.45E-03	9.38E-03	pCi/m3	
2106	703169009	11/26/2024	Beryllium-7	7.46E-02	7.37E-03	7.64E-03	pCi/m3	
2106	706986006	12/25/2024	Beryllium-7	6.29E-02	7.41E-03	8.62E-03	pCi/m3	
2106	650210007	1/2/2024	BETA	3.67E-02	1.64E-03	1.37E-03	pCi/m3	
2106	650994009	1/8/2024	BETA	4.09E-02	1.87E-03	1.56E-03	pCi/m3	
2106	651848021	1/18/2024	BETA	3.36E-02	1.25E-03	8.42E-04	pCi/m3	
2106	652268003	1/23/2024	BETA	3.89E-02	1.96E-03	1.80E-03	pCi/m3	
2106	653178023	1/29/2024	BETA	1.08E-03	5.61E-04	1.55E-03	pCi/m3	U
2106	654187017	2/6/2024	BETA	3.42E-02	1.48E-03	1.14E-03	pCi/m3	
2106	655008004	2/13/2024	BETA	2.45E-02	1.37E-03	1.32E-03	pCi/m3	
2106	655819017	2/21/2024	BETA	3.05E-02	1.38E-03	1.16E-03	pCi/m3	
2106	656511005	2/26/2024	BETA	3.43E-02	1.84E-03	1.63E-03	pCi/m3	
2106	657416003	3/4/2024	BETA	2.57E-02	1.37E-03	1.23E-03	pCi/m3	
2106	658450003	3/12/2024	BETA	2.07E-02	1.18E-03	1.20E-03	pCi/m3	
2106	659313015	3/19/2024	BETA	2.74E-02	1.41E-03	1.20E-03	pCi/m3	
2106	660083001	3/26/2024	BETA	2.90E-02	1.50E-03	1.30E-03	pCi/m3	
2106	660793003	4/1/2024	BETA	3.45E-02	1.72E-03	1.47E-03	pCi/m3	
2106	662052003	4/8/2024	BETA	4.17E-02	1.72E-03	1.19E-03	pCi/m3	
2106	662074025	4/15/2024	BETA	3.00E-02	1.48E-03	1.19E-03	pCi/m3	
2106	664092018	4/23/2024	BETA	2.52E-02	1.25E-03	1.07E-03	pCi/m3	
2106	665204015	4/29/2024	BETA	3.73E-02	1.75E-03	1.38E-03	pCi/m3	
2106	666121009	5/6/2024	BETA	2.25E-02	1.28E-03	1.24E-03	pCi/m3	
2106	667159015	5/13/2024	BETA	2.03E-02	1.14E-03	1.05E-03	pCi/m3	
2106	668220002	5/20/2024	BETA	3.07E-02	1.71E-03	1.64E-03	pCi/m3	
2106	669062017	5/28/2024	BETA	2.47E-02	1.24E-03	1.10E-03	pCi/m3	
2106	669755013	6/4/2024	BETA	2.53E-02	1.39E-03	1.29E-03	pCi/m3	
2106	670837017	6/11/2024	BETA	2.08E-02	1.11E-03	1.03E-03	pCi/m3	
2106	671897005	6/18/2024	BETA	3.26E-02	1.61E-03	1.37E-03	pCi/m3	
2106	672773001	6/24/2024	BETA	3.63E-02	1.76E-03	1.48E-03	pCi/m3	
2106	673676003	7/1/2024	BETA	3.46E-02	1.64E-03	1.38E-03	pCi/m3	
2106	674336003	7/9/2024	BETA	2.69E-02	1.31E-03	1.08E-03	pCi/m3	
2106	675686011	7/15/2024	BETA	3.66E-02	1.80E-03	1.49E-03	pCi/m3	
2106	676802007	7/23/2024	BETA	2.68E-02	1.33E-03	1.20E-03	pCi/m3	
2106	677970021	7/30/2024	BETA	3.84E-02	1.82E-03	1.47E-03	pCi/m3	
2106	679202011	8/6/2024	BETA	3.01E-02	1.42E-03	1.15E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	680237011	8/13/2024	BETA	4.60E-02	1.82E-03	1.19E-03	pCi/m3	
2106	681488013	8/21/2024	BETA	3.50E-02	1.64E-03	1.39E-03	pCi/m3	
2106	682604017	8/27/2024	BETA	4.21E-02	1.75E-03	1.33E-03	pCi/m3	
2106	683692003	9/3/2024	BETA	3.85E-02	1.69E-03	1.30E-03	pCi/m3	
2106	684664005	9/10/2024	BETA	3.26E-02	1.56E-03	1.32E-03	pCi/m3	
2106	685842003	9/17/2024	BETA	3.61E-02	3.03E-03	1.16E-03	pCi/m3	
2106	686976017	9/24/2024	BETA	4.08E-02	1.77E-03	1.33E-03	pCi/m3	
2106	687851007	10/1/2024	BETA	2.75E-02	1.39E-03	1.24E-03	pCi/m3	
2106	689079003	10/8/2024	BETA	5.15E-02	1.92E-03	1.30E-03	pCi/m3	
2106	690093002	10/15/2024	BETA	5.74E-02	1.98E-03	1.25E-03	pCi/m3	
2106	691165013	10/22/2024	BETA	3.35E-02	1.50E-03	1.18E-03	pCi/m3	
2106	692327007	10/28/2024	BETA	6.84E-02	2.40E-03	1.54E-03	pCi/m3	
2106	693531011	11/4/2024	BETA	4.25E-02	1.72E-03	1.27E-03	pCi/m3	
2106	694911005	11/12/2024	BETA	3.29E-02	1.45E-03	1.18E-03	pCi/m3	
2106	696166023	11/20/2024	BETA	4.30E-02	1.59E-03	1.03E-03	pCi/m3	
2106	697367017	11/26/2024	BETA	3.44E-02	1.61E-03	1.42E-03	pCi/m3	
2106	698165009	12/8/2024	BETA	6.02E-02	1.86E-03	1.13E-03	pCi/m3	
2106	699433003	12/10/2024	BETA	1.88E-02	8.30E-04	6.72E-04	pCi/m3	
2106	700752027	12/17/2024	BETA	3.78E-02	1.46E-03	1.11E-03	pCi/m3	
2106	701911011	12/25/2024	BETA	3.33E-02	1.40E-03	1.17E-03	pCi/m3	
2106	657104002	1/23/2024	Bismuth-214	1.63E-04	7.65E-04	1.93E-03	pCi/m3	U
2106	659797008	2/21/2024	Bismuth-214	2.23E-04	6.33E-04	2.01E-03	pCi/m3	U
2106	664161008	3/19/2024	Bismuth-214	1.17E-03	1.00E-03	2.31E-03	pCi/m3	U
2106	669419010	4/15/2024	Bismuth-214	8.62E-04	7.71E-04	2.67E-03	pCi/m3	U
2106	674392008	5/13/2024	Bismuth-214	4.57E-05	6.40E-04	2.02E-03	pCi/m3	U
2106	676203008	6/11/2024	Bismuth-214	1.81E-03	9.90E-04	2.71E-03	pCi/m3	U
2106	682054002	7/9/2024	Bismuth-214	2.16E-03	9.33E-04	2.26E-03	pCi/m3	U
2106	691730006	8/6/2024	Bismuth-214	4.85E-03	1.39E-03	4.43E-03	pCi/m3	UI
2106	691734009	8/27/2024	Bismuth-214	2.22E-03	9.34E-04	2.12E-03	pCi/m3	UI
2106	695577004	10/1/2024	Bismuth-214	1.40E-04	1.04E-03	1.30E-03	pCi/m3	U
2106	702719003	10/28/2024	Bismuth-214	4.58E-04	8.02E-04	1.52E-03	pCi/m3	U
2106	703169009	11/26/2024	Bismuth-214	1.05E-03	8.21E-04	2.05E-03	pCi/m3	U
2106	706986006	12/25/2024	Bismuth-214	8.25E-04	5.73E-04	1.95E-03	pCi/m3	U
2106	657104002	1/23/2024	Cerium-141	-3.44E-04	4.99E-04	1.57E-03	pCi/m3	U
2106	659797008	2/21/2024	Cerium-141	-9.77E-04	4.05E-04	1.08E-03	pCi/m3	U
2106	664161008	3/19/2024	Cerium-141	1.65E-03	1.06E-03	1.57E-03	pCi/m3	UI
2106	669419010	4/15/2024	Cerium-141	-4.64E-04	1.06E-03	3.12E-03	pCi/m3	U
2106	674392008	5/13/2024	Cerium-141	1.15E-03	1.41E-03	2.68E-03	pCi/m3	U
2106	676203008	6/11/2024	Cerium-141	-1.55E-03	6.31E-04	1.73E-03	pCi/m3	U
2106	682054002	7/9/2024	Cerium-141	-2.93E-04	8.98E-04	2.54E-03	pCi/m3	U
2106	691730006	8/6/2024	Cerium-141	5.57E-04	1.92E-03	6.41E-03	pCi/m3	U
2106	691734009	8/27/2024	Cerium-141	-1.50E-03	8.25E-04	2.40E-03	pCi/m3	U
2106	695577004	10/1/2024	Cerium-141	-2.15E-04	9.34E-04	2.73E-03	pCi/m3	U
2106	702719003	10/28/2024	Cerium-141	-1.91E-03	8.46E-04	2.37E-03	pCi/m3	U
2106	703169009	11/26/2024	Cerium-141	-1.29E-03	6.16E-04	1.56E-03	pCi/m3	U
2106	706986006	12/25/2024	Cerium-141	8.23E-04	5.54E-04	1.18E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	657104002	1/23/2024	Cerium-144	4.80E-04	9.47E-04	3.21E-03	pCi/m3	U
2106	659797008	2/21/2024	Cerium-144	2.67E-03	1.53E-03	2.55E-03	pCi/m3	UI
2106	664161008	3/19/2024	Cerium-144	2.12E-04	1.05E-03	3.55E-03	pCi/m3	U
2106	669419010	4/15/2024	Cerium-144	-2.37E-03	1.43E-03	4.52E-03	pCi/m3	U
2106	674392008	5/13/2024	Cerium-144	3.76E-03	1.42E-03	3.15E-03	pCi/m3	UI
2106	676203008	6/11/2024	Cerium-144	5.78E-04	9.19E-04	3.17E-03	pCi/m3	U
2106	682054002	7/9/2024	Cerium-144	2.17E-04	1.22E-03	4.03E-03	pCi/m3	U
2106	691730006	8/6/2024	Cerium-144	3.31E-03	1.67E-03	6.06E-03	pCi/m3	U
2106	691734009	8/27/2024	Cerium-144	-7.27E-04	9.00E-04	2.80E-03	pCi/m3	U
2106	695577004	10/1/2024	Cerium-144	-8.58E-04	1.16E-03	3.69E-03	pCi/m3	U
2106	702719003	10/28/2024	Cerium-144	6.57E-04	8.35E-04	2.76E-03	pCi/m3	U
2106	703169009	11/26/2024	Cerium-144	-1.25E-04	8.83E-04	2.79E-03	pCi/m3	U
2106	706986006	12/25/2024	Cerium-144	2.98E-04	7.58E-04	2.55E-03	pCi/m3	U
2106	657104002	1/23/2024	Cesium-134	6.96E-04	2.99E-04	1.06E-03	pCi/m3	U
2106	659797008	2/21/2024	Cesium-134	6.37E-04	3.80E-04	1.08E-03	pCi/m3	U
2106	664161008	3/19/2024	Cesium-134	5.32E-04	3.83E-04	1.41E-03	pCi/m3	U
2106	669419010	4/15/2024	Cesium-134	6.85E-04	3.60E-04	1.35E-03	pCi/m3	U
2106	674392008	5/13/2024	Cesium-134	-1.27E-04	3.22E-04	1.01E-03	pCi/m3	U
2106	676203008	6/11/2024	Cesium-134	-3.41E-04	2.34E-04	6.30E-04	pCi/m3	U
2106	682054002	7/9/2024	Cesium-134	-1.32E-04	2.85E-04	9.26E-04	pCi/m3	U
2106	691730006	8/6/2024	Cesium-134	-4.59E-04	5.52E-04	1.79E-03	pCi/m3	U
2106	691734009	8/27/2024	Cesium-134	2.03E-04	2.84E-04	9.88E-04	pCi/m3	U
2106	695577004	10/1/2024	Cesium-134	1.08E-04	2.68E-04	9.34E-04	pCi/m3	U
2106	702719003	10/28/2024	Cesium-134	3.68E-04	2.19E-04	7.73E-04	pCi/m3	U
2106	703169009	11/26/2024	Cesium-134	2.34E-05	2.39E-04	7.68E-04	pCi/m3	U
2106	706986006	12/25/2024	Cesium-134	-5.51E-06	2.58E-04	8.70E-04	pCi/m3	U
2106	657104002	1/23/2024	Cesium-137	3.20E-04	2.50E-04	9.06E-04	pCi/m3	U
2106	659797008	2/21/2024	Cesium-137	1.05E-04	2.38E-04	8.02E-04	pCi/m3	U
2106	664161008	3/19/2024	Cesium-137	2.22E-04	2.83E-04	9.55E-04	pCi/m3	U
2106	669419010	4/15/2024	Cesium-137	2.38E-04	3.02E-04	1.04E-03	pCi/m3	U
2106	674392008	5/13/2024	Cesium-137	-5.27E-06	1.99E-04	6.52E-04	pCi/m3	U
2106	676203008	6/11/2024	Cesium-137	-1.41E-04	2.68E-04	8.02E-04	pCi/m3	U
2106	682054002	7/9/2024	Cesium-137	2.27E-04	2.80E-04	9.52E-04	pCi/m3	U
2106	691730006	8/6/2024	Cesium-137	7.80E-05	4.47E-04	1.46E-03	pCi/m3	U
2106	691734009	8/27/2024	Cesium-137	1.89E-04	2.28E-04	7.45E-04	pCi/m3	U
2106	695577004	10/1/2024	Cesium-137	1.08E-04	2.72E-04	8.97E-04	pCi/m3	U
2106	702719003	10/28/2024	Cesium-137	1.06E-04	2.21E-04	6.63E-04	pCi/m3	U
2106	703169009	11/26/2024	Cesium-137	4.20E-04	3.55E-04	5.59E-04	pCi/m3	U
2106	706986006	12/25/2024	Cesium-137	8.05E-05	1.86E-04	6.30E-04	pCi/m3	U
2106	657104002	1/23/2024	Chromium-51	2.91E-03	3.61E-03	1.29E-02	pCi/m3	U
2106	659797008	2/21/2024	Chromium-51	-4.46E-04	3.14E-03	1.05E-02	pCi/m3	U
2106	664161008	3/19/2024	Chromium-51	1.16E-04	4.80E-03	1.56E-02	pCi/m3	U
2106	669419010	4/15/2024	Chromium-51	-1.78E-03	7.56E-03	2.48E-02	pCi/m3	U
2106	674392008	5/13/2024	Chromium-51	-1.44E-02	7.24E-03	2.23E-02	pCi/m3	U
2106	676203008	6/11/2024	Chromium-51	1.49E-03	4.88E-03	1.69E-02	pCi/m3	U
2106	682054002	7/9/2024	Chromium-51	7.41E-03	6.17E-03	2.22E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	691730006	8/6/2024	Chromium-51	-1.93E-02	1.96E-02	6.20E-02	pCi/m3	U
2106	691734009	8/27/2024	Chromium-51	1.29E-03	5.57E-03	1.78E-02	pCi/m3	U
2106	695577004	10/1/2024	Chromium-51	-1.93E-04	6.06E-03	2.06E-02	pCi/m3	U
2106	702719003	10/28/2024	Chromium-51	-1.37E-02	6.73E-03	2.02E-02	pCi/m3	U
2106	703169009	11/26/2024	Chromium-51	8.00E-03	4.26E-03	1.59E-02	pCi/m3	U
2106	706986006	12/25/2024	Chromium-51	3.45E-03	3.81E-03	1.37E-02	pCi/m3	U
2106	657104002	1/23/2024	Cobalt-57	-8.00E-05	1.35E-04	4.01E-04	pCi/m3	U
2106	659797008	2/21/2024	Cobalt-57	5.87E-05	1.12E-04	3.74E-04	pCi/m3	U
2106	664161008	3/19/2024	Cobalt-57	-5.75E-06	1.30E-04	4.38E-04	pCi/m3	U
2106	669419010	4/15/2024	Cobalt-57	2.71E-04	2.10E-04	6.77E-04	pCi/m3	U
2106	674392008	5/13/2024	Cobalt-57	-8.32E-05	1.39E-04	4.40E-04	pCi/m3	U
2106	676203008	6/11/2024	Cobalt-57	5.80E-05	1.34E-04	4.59E-04	pCi/m3	U
2106	682054002	7/9/2024	Cobalt-57	1.63E-04	2.20E-04	4.79E-04	pCi/m3	U
2106	691730006	8/6/2024	Cobalt-57	-7.22E-05	1.75E-04	5.67E-04	pCi/m3	U
2106	691734009	8/27/2024	Cobalt-57	-2.16E-05	1.25E-04	3.83E-04	pCi/m3	U
2106	695577004	10/1/2024	Cobalt-57	-2.53E-04	1.51E-04	4.60E-04	pCi/m3	U
2106	702719003	10/28/2024	Cobalt-57	4.49E-06	1.12E-04	3.59E-04	pCi/m3	U
2106	703169009	11/26/2024	Cobalt-57	-4.59E-05	1.15E-04	3.59E-04	pCi/m3	U
2106	706986006	12/25/2024	Cobalt-57	3.74E-05	8.09E-05	2.76E-04	pCi/m3	U
2106	657104002	1/23/2024	Cobalt-58	-9.75E-05	3.16E-04	1.04E-03	pCi/m3	U
2106	659797008	2/21/2024	Cobalt-58	2.56E-04	3.19E-04	1.10E-03	pCi/m3	U
2106	664161008	3/19/2024	Cobalt-58	1.75E-04	3.90E-04	1.34E-03	pCi/m3	U
2106	669419010	4/15/2024	Cobalt-58	2.16E-03	5.36E-04	1.19E-03	pCi/m3	UI
2106	674392008	5/13/2024	Cobalt-58	1.01E-04	4.43E-04	1.46E-03	pCi/m3	U
2106	676203008	6/11/2024	Cobalt-58	-2.32E-04	4.24E-04	1.23E-03	pCi/m3	U
2106	682054002	7/9/2024	Cobalt-58	-2.50E-05	4.05E-04	1.36E-03	pCi/m3	U
2106	691730006	8/6/2024	Cobalt-58	-9.84E-04	7.42E-04	1.96E-03	pCi/m3	U
2106	691734009	8/27/2024	Cobalt-58	8.69E-04	5.01E-04	1.83E-03	pCi/m3	U
2106	695577004	10/1/2024	Cobalt-58	-2.42E-04	3.33E-04	1.04E-03	pCi/m3	U
2106	702719003	10/28/2024	Cobalt-58	3.79E-04	4.22E-04	1.11E-03	pCi/m3	U
2106	703169009	11/26/2024	Cobalt-58	-6.27E-04	3.05E-04	6.98E-04	pCi/m3	U
2106	706986006	12/25/2024	Cobalt-58	-1.92E-04	2.23E-04	6.42E-04	pCi/m3	U
2106	657104002	1/23/2024	Cobalt-60	-2.46E-04	3.09E-04	8.72E-04	pCi/m3	U
2106	659797008	2/21/2024	Cobalt-60	4.44E-05	3.13E-04	1.05E-03	pCi/m3	U
2106	664161008	3/19/2024	Cobalt-60	-6.65E-04	3.04E-04	6.36E-04	pCi/m3	U
2106	669419010	4/15/2024	Cobalt-60	-1.05E-04	4.74E-04	1.22E-03	pCi/m3	U
2106	674392008	5/13/2024	Cobalt-60	1.27E-05	2.82E-04	8.37E-04	pCi/m3	U
2106	676203008	6/11/2024	Cobalt-60	-1.87E-04	3.35E-04	1.05E-03	pCi/m3	U
2106	682054002	7/9/2024	Cobalt-60	-2.79E-04	3.83E-04	1.13E-03	pCi/m3	U
2106	691730006	8/6/2024	Cobalt-60	1.28E-04	5.70E-04	1.91E-03	pCi/m3	U
2106	691734009	8/27/2024	Cobalt-60	5.82E-04	3.08E-04	1.25E-03	pCi/m3	U
2106	695577004	10/1/2024	Cobalt-60	-2.00E-04	3.46E-04	1.04E-03	pCi/m3	U
2106	702719003	10/28/2024	Cobalt-60	-2.76E-05	2.42E-04	7.86E-04	pCi/m3	U
2106	703169009	11/26/2024	Cobalt-60	-2.74E-04	2.61E-04	6.97E-04	pCi/m3	U
2106	706986006	12/25/2024	Cobalt-60	3.76E-04	3.22E-04	1.20E-03	pCi/m3	U
2106	657104002	1/23/2024	Iron-59	-5.79E-04	8.70E-04	2.61E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	659797008	2/21/2024	Iron-59	-5.66E-05	8.56E-04	2.84E-03	pCi/m3	U
2106	664161008	3/19/2024	Iron-59	-5.32E-04	1.25E-03	3.82E-03	pCi/m3	U
2106	669419010	4/15/2024	Iron-59	-5.59E-04	1.11E-03	3.52E-03	pCi/m3	U
2106	674392008	5/13/2024	Iron-59	-2.33E-03	1.03E-03	1.78E-03	pCi/m3	U
2106	676203008	6/11/2024	Iron-59	-2.51E-03	1.03E-03	1.99E-03	pCi/m3	U
2106	682054002	7/9/2024	Iron-59	-7.28E-04	1.08E-03	3.24E-03	pCi/m3	U
2106	691730006	8/6/2024	Iron-59	1.16E-03	3.00E-03	1.05E-02	pCi/m3	U
2106	691734009	8/27/2024	Iron-59	7.89E-04	1.20E-03	4.38E-03	pCi/m3	U
2106	695577004	10/1/2024	Iron-59	4.51E-04	1.10E-03	3.75E-03	pCi/m3	U
2106	702719003	10/28/2024	Iron-59	1.11E-03	9.98E-04	3.68E-03	pCi/m3	U
2106	703169009	11/26/2024	Iron-59	1.21E-03	6.50E-04	2.71E-03	pCi/m3	U
2106	706986006	12/25/2024	Iron-59	9.95E-04	7.29E-04	2.92E-03	pCi/m3	U
2106	657104002	1/23/2024	Lanthanum-140	-3.50E-03	2.51E-03	6.47E-03	pCi/m3	U
2106	659797008	2/21/2024	Lanthanum-140	-2.45E-03	1.94E-03	4.98E-03	pCi/m3	U
2106	664161008	3/19/2024	Lanthanum-140	-4.23E-03	2.26E-03	4.08E-03	pCi/m3	U
2106	669419010	4/15/2024	Lanthanum-140	3.64E-03	4.39E-03	1.68E-02	pCi/m3	U
2106	674392008	5/13/2024	Lanthanum-140	5.50E-03	8.63E-03	3.09E-02	pCi/m3	U
2106	676203008	6/11/2024	Lanthanum-140	-5.75E-03	4.49E-03	1.21E-02	pCi/m3	U
2106	682054002	7/9/2024	Lanthanum-140	-4.04E-03	4.07E-03	1.08E-02	pCi/m3	U
2106	691730006	8/6/2024	Lanthanum-140	1.43E-02	7.72E-02	2.65E-01	pCi/m3	U
2106	691734009	8/27/2024	Lanthanum-140	-3.63E-03	1.17E-02	3.68E-02	pCi/m3	U
2106	695577004	10/1/2024	Lanthanum-140	-3.59E-03	4.18E-03	1.19E-02	pCi/m3	U
2106	702719003	10/28/2024	Lanthanum-140	1.27E-02	1.18E-02	4.33E-02	pCi/m3	U
2106	703169009	11/26/2024	Lanthanum-140	-7.45E-04	4.11E-03	1.30E-02	pCi/m3	U
2106	706986006	12/25/2024	Lanthanum-140	-3.71E-03	4.04E-03	1.13E-02	pCi/m3	U
2106	657104002	1/23/2024	Lead-210	6.75E-02	4.53E-02	7.71E-02	pCi/m3	U
2106	659797008	2/21/2024	Lead-210	1.28E-01	4.01E-02	5.57E-02	pCi/m3	UI
2106	664161008	3/19/2024	Lead-210	1.06E-02	6.09E-03	9.17E-03	pCi/m3	UI
2106	669419010	4/15/2024	Lead-210	2.76E-03	6.15E-02	1.98E-01	pCi/m3	U
2106	674392008	5/13/2024	Lead-210	1.01E-02	2.50E-02	6.47E-02	pCi/m3	U
2106	676203008	6/11/2024	Lead-210	-6.62E-02	4.34E-02	1.15E-01	pCi/m3	U
2106	682054002	7/9/2024	Lead-210	2.16E-02	2.91E-02	9.71E-02	pCi/m3	U
2106	691730006	8/6/2024	Lead-210	2.68E-02	4.52E-03	6.72E-03	pCi/m3	
2106	691734009	8/27/2024	Lead-210	4.69E-02	2.54E-02	2.98E-02	pCi/m3	UI
2106	695577004	10/1/2024	Lead-210	1.43E-02	2.76E-02	9.84E-02	pCi/m3	U
2106	702719003	10/28/2024	Lead-210	4.78E-02	1.71E-02	2.26E-02	pCi/m3	
2106	703169009	11/26/2024	Lead-210	2.66E-02	1.76E-02	2.70E-02	pCi/m3	U
2106	706986006	12/25/2024	Lead-210	2.15E-02	2.89E-03	4.00E-03	pCi/m3	
2106	657104002	1/23/2024	Lead-212	1.43E-03	5.30E-04	9.01E-04	pCi/m3	UI
2106	659797008	2/21/2024	Lead-212	3.96E-04	8.26E-04	1.68E-03	pCi/m3	U
2106	664161008	3/19/2024	Lead-212	4.79E-04	5.76E-04	1.07E-03	pCi/m3	U
2106	669419010	4/15/2024	Lead-212	7.33E-04	7.81E-04	1.67E-03	pCi/m3	U
2106	674392008	5/13/2024	Lead-212	6.45E-04	5.92E-04	1.48E-03	pCi/m3	U
2106	676203008	6/11/2024	Lead-212	9.82E-04	5.99E-04	1.59E-03	pCi/m3	U
2106	682054002	7/9/2024	Lead-212	6.39E-04	7.53E-04	1.58E-03	pCi/m3	U
2106	691730006	8/6/2024	Lead-212	1.98E-03	1.12E-03	1.55E-03	pCi/m3	UI

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	691734009	8/27/2024	Lead-212	4.79E-04	5.15E-04	9.08E-04	pCi/m3	U
2106	695577004	10/1/2024	Lead-212	9.49E-04	8.47E-04	1.11E-03	pCi/m3	U
2106	702719003	10/28/2024	Lead-212	8.60E-04	4.35E-04	7.75E-04	pCi/m3	UI
2106	703169009	11/26/2024	Lead-212	4.32E-04	5.14E-04	9.39E-04	pCi/m3	U
2106	706986006	12/25/2024	Lead-212	8.77E-04	3.64E-04	8.70E-04	pCi/m3	UI
2106	657104002	1/23/2024	Lead-214	1.64E-03	7.02E-04	1.98E-03	pCi/m3	U
2106	659797008	2/21/2024	Lead-214	5.13E-04	5.20E-04	1.84E-03	pCi/m3	U
2106	664161008	3/19/2024	Lead-214	6.53E-04	6.08E-04	1.99E-03	pCi/m3	U
2106	669419010	4/15/2024	Lead-214	-4.33E-04	6.73E-04	1.99E-03	pCi/m3	U
2106	674392008	5/13/2024	Lead-214	5.59E-04	4.65E-04	1.68E-03	pCi/m3	U
2106	676203008	6/11/2024	Lead-214	6.12E-04	8.12E-04	1.99E-03	pCi/m3	U
2106	682054002	7/9/2024	Lead-214	5.81E-04	8.92E-04	1.89E-03	pCi/m3	U
2106	691730006	8/6/2024	Lead-214	4.26E-03	1.23E-03	3.93E-03	pCi/m3	UI
2106	691734009	8/27/2024	Lead-214	3.53E-05	5.09E-04	1.66E-03	pCi/m3	U
2106	695577004	10/1/2024	Lead-214	2.12E-03	8.99E-04	2.22E-03	pCi/m3	U
2106	702719003	10/28/2024	Lead-214	1.06E-03	6.48E-04	1.35E-03	pCi/m3	U
2106	703169009	11/26/2024	Lead-214	7.41E-04	7.70E-04	1.73E-03	pCi/m3	U
2106	706986006	12/25/2024	Lead-214	3.68E-04	4.64E-04	1.53E-03	pCi/m3	U
2106	657104002	1/23/2024	Manganese-54	-3.21E-04	2.91E-04	8.86E-04	pCi/m3	U
2106	659797008	2/21/2024	Manganese-54	-5.03E-04	2.94E-04	7.45E-04	pCi/m3	U
2106	664161008	3/19/2024	Manganese-54	-1.03E-03	3.62E-04	8.59E-04	pCi/m3	U
2106	669419010	4/15/2024	Manganese-54	7.53E-05	3.44E-04	1.13E-03	pCi/m3	U
2106	674392008	5/13/2024	Manganese-54	3.67E-04	2.93E-04	1.05E-03	pCi/m3	U
2106	676203008	6/11/2024	Manganese-54	3.31E-04	3.12E-04	1.14E-03	pCi/m3	U
2106	682054002	7/9/2024	Manganese-54	-1.33E-04	2.86E-04	9.26E-04	pCi/m3	U
2106	691730006	8/6/2024	Manganese-54	-6.88E-05	5.25E-04	1.74E-03	pCi/m3	U
2106	691734009	8/27/2024	Manganese-54	-9.61E-05	2.37E-04	7.26E-04	pCi/m3	U
2106	695577004	10/1/2024	Manganese-54	1.26E-04	2.74E-04	8.59E-04	pCi/m3	U
2106	702719003	10/28/2024	Manganese-54	1.40E-04	2.03E-04	7.24E-04	pCi/m3	U
2106	703169009	11/26/2024	Manganese-54	-1.54E-04	2.75E-04	8.06E-04	pCi/m3	U
2106	706986006	12/25/2024	Manganese-54	-2.89E-05	1.81E-04	5.96E-04	pCi/m3	U
2106	657104002	1/23/2024	Molybdenum-99	-1.66E+00	2.35E+01	0.00E+00	pCi/m3	U
2106	659797008	2/21/2024	Molybdenum-99	-3.36E+00	4.71E+00	0.00E+00	pCi/m3	U
2106	664161008	3/19/2024	Molybdenum-99	9.28E+00	2.70E+01	0.00E+00	pCi/m3	UI
2106	669419010	4/15/2024	Molybdenum-99	3.48E+02	1.44E+03	0.00E+00	pCi/m3	UI
2106	674392008	5/13/2024	Molybdenum-99	4.93E+03	9.97E+03	0.00E+00	pCi/m3	UI
2106	676203008	6/11/2024	Molybdenum-99	5.16E+01	1.17E+02	0.00E+00	pCi/m3	UI
2106	682054002	7/9/2024	Molybdenum-99	-2.55E+02	1.18E+03	0.00E+00	pCi/m3	U
2106	691730006	8/6/2024	Molybdenum-99	6.90E+06	8.77E+06	0.00E+00	pCi/m3	UI
2106	691734009	8/27/2024	Molybdenum-99	-7.47E+03	2.84E+04	0.00E+00	pCi/m3	U
2106	695577004	10/1/2024	Molybdenum-99	-1.24E+03	7.83E+02	0.00E+00	pCi/m3	U
2106	702719003	10/28/2024	Molybdenum-99	8.04E+04	1.39E+05	0.00E+00	pCi/m3	UI
2106	703169009	11/26/2024	Molybdenum-99	8.60E-01	3.14E+02	0.00E+00	pCi/m3	UI
2106	706986006	12/25/2024	Molybdenum-99	-5.19E+01	2.00E+02	0.00E+00	pCi/m3	U
2106	657104002	1/23/2024	Niobium-95	4.09E-05	3.41E-04	1.10E-03	pCi/m3	U
2106	659797008	2/21/2024	Niobium-95	-3.03E-04	3.12E-04	8.76E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	664161008	3/19/2024	Niobium-95	3.78E-04	4.97E-04	1.74E-03	pCi/m3	U
2106	669419010	4/15/2024	Niobium-95	-7.71E-04	5.32E-04	1.49E-03	pCi/m3	U
2106	674392008	5/13/2024	Niobium-95	3.79E-04	4.62E-04	1.61E-03	pCi/m3	U
2106	676203008	6/11/2024	Niobium-95	-2.02E-04	4.40E-04	1.32E-03	pCi/m3	U
2106	682054002	7/9/2024	Niobium-95	-1.05E-04	4.20E-04	1.40E-03	pCi/m3	U
2106	691730006	8/6/2024	Niobium-95	-5.33E-04	1.08E-03	3.47E-03	pCi/m3	U
2106	691734009	8/27/2024	Niobium-95	-4.67E-04	3.82E-04	1.04E-03	pCi/m3	U
2106	695577004	10/1/2024	Niobium-95	1.42E-04	5.28E-04	1.64E-03	pCi/m3	U
2106	702719003	10/28/2024	Niobium-95	-3.93E-04	4.55E-04	1.24E-03	pCi/m3	U
2106	703169009	11/26/2024	Niobium-95	2.18E-04	3.06E-04	1.05E-03	pCi/m3	U
2106	706986006	12/25/2024	Niobium-95	4.47E-04	4.08E-04	1.51E-03	pCi/m3	U
2106	657104002	1/23/2024	Potassium-40	1.83E-04	4.04E-03	1.44E-02	pCi/m3	U
2106	659797008	2/21/2024	Potassium-40	1.10E-02	4.59E-03	9.54E-03	pCi/m3	UI
2106	664161008	3/19/2024	Potassium-40	7.77E-03	5.22E-03	1.14E-02	pCi/m3	U
2106	669419010	4/15/2024	Potassium-40	7.83E-03	7.11E-03	1.33E-02	pCi/m3	U
2106	674392008	5/13/2024	Potassium-40	3.51E-04	5.02E-03	8.33E-03	pCi/m3	U
2106	676203008	6/11/2024	Potassium-40	3.30E-03	6.48E-03	1.30E-02	pCi/m3	U
2106	682054002	7/9/2024	Potassium-40	1.17E-02	7.76E-03	9.38E-03	pCi/m3	UI
2106	691730006	8/6/2024	Potassium-40	1.14E-02	9.08E-03	1.47E-02	pCi/m3	U
2106	691734009	8/27/2024	Potassium-40	6.84E-03	5.40E-03	4.69E-03	pCi/m3	UI
2106	695577004	10/1/2024	Potassium-40	1.47E-02	5.68E-03	9.15E-03	pCi/m3	U
2106	702719003	10/28/2024	Potassium-40	6.18E-03	4.63E-03	5.66E-03	pCi/m3	UI
2106	703169009	11/26/2024	Potassium-40	5.32E-03	5.65E-03	7.95E-03	pCi/m3	U
2106	706986006	12/25/2024	Potassium-40	2.64E-03	4.46E-03	0.00E+00	pCi/m3	UI
2106	657104002	1/23/2024	Radium-226	1.64E-03	7.02E-04	1.98E-03	pCi/m3	U
2106	659797008	2/21/2024	Radium-226	5.13E-04	5.20E-04	1.84E-03	pCi/m3	U
2106	664161008	3/19/2024	Radium-226	6.53E-04	6.08E-04	1.99E-03	pCi/m3	U
2106	669419010	4/15/2024	Radium-226	-4.33E-04	6.73E-04	1.99E-03	pCi/m3	U
2106	674392008	5/13/2024	Radium-226	5.59E-04	4.65E-04	1.68E-03	pCi/m3	U
2106	676203008	6/11/2024	Radium-226	6.12E-04	8.12E-04	1.99E-03	pCi/m3	U
2106	682054002	7/9/2024	Radium-226	5.81E-04	8.92E-04	1.89E-03	pCi/m3	U
2106	691730006	8/6/2024	Radium-226	4.26E-03	1.23E-03	3.93E-03	pCi/m3	UI
2106	691734009	8/27/2024	Radium-226	3.53E-05	5.09E-04	1.66E-03	pCi/m3	U
2106	695577004	10/1/2024	Radium-226	2.12E-03	8.99E-04	2.22E-03	pCi/m3	U
2106	702719003	10/28/2024	Radium-226	1.06E-03	6.48E-04	1.35E-03	pCi/m3	U
2106	703169009	11/26/2024	Radium-226	7.41E-04	7.70E-04	1.73E-03	pCi/m3	U
2106	706986006	12/25/2024	Radium-226	3.68E-04	4.64E-04	1.53E-03	pCi/m3	U
2106	657104002	1/23/2024	Radium-228	-6.27E-04	1.17E-03	3.90E-03	pCi/m3	U
2106	659797008	2/21/2024	Radium-228	-1.06E-03	1.32E-03	4.12E-03	pCi/m3	U
2106	664161008	3/19/2024	Radium-228	-1.20E-03	1.67E-03	5.21E-03	pCi/m3	U
2106	669419010	4/15/2024	Radium-228	5.47E-04	1.99E-03	4.62E-03	pCi/m3	U
2106	674392008	5/13/2024	Radium-228	1.22E-03	1.75E-03	4.41E-03	pCi/m3	U
2106	676203008	6/11/2024	Radium-228	-2.75E-04	1.35E-03	4.42E-03	pCi/m3	U
2106	682054002	7/9/2024	Radium-228	4.71E-03	2.14E-03	5.24E-03	pCi/m3	U
2106	691730006	8/6/2024	Radium-228	2.62E-03	2.54E-03	6.67E-03	pCi/m3	U
2106	691734009	8/27/2024	Radium-228	1.59E-03	1.58E-03	3.90E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	695577004	10/1/2024	Radium-228	-6.99E-04	1.38E-03	4.43E-03	pCi/m3	U
2106	702719003	10/28/2024	Radium-228	1.06E-03	1.35E-03	3.11E-03	pCi/m3	U
2106	703169009	11/26/2024	Radium-228	1.38E-03	1.11E-03	3.70E-03	pCi/m3	U
2106	706986006	12/25/2024	Radium-228	3.02E-03	1.06E-03	4.42E-03	pCi/m3	U
2106	657104002	1/23/2024	Ruthenium-103	2.64E-04	3.79E-04	1.32E-03	pCi/m3	U
2106	659797008	2/21/2024	Ruthenium-103	1.24E-04	3.37E-04	1.14E-03	pCi/m3	U
2106	664161008	3/19/2024	Ruthenium-103	-2.94E-04	4.01E-04	1.28E-03	pCi/m3	U
2106	669419010	4/15/2024	Ruthenium-103	1.32E-04	6.28E-04	2.09E-03	pCi/m3	U
2106	674392008	5/13/2024	Ruthenium-103	-5.43E-04	6.23E-04	1.96E-03	pCi/m3	U
2106	676203008	6/11/2024	Ruthenium-103	2.08E-04	4.64E-04	1.43E-03	pCi/m3	U
2106	682054002	7/9/2024	Ruthenium-103	1.19E-03	5.04E-04	1.76E-03	pCi/m3	U
2106	691730006	8/6/2024	Ruthenium-103	1.70E-03	1.61E-03	5.79E-03	pCi/m3	U
2106	691734009	8/27/2024	Ruthenium-103	-9.34E-04	5.63E-04	1.53E-03	pCi/m3	U
2106	695577004	10/1/2024	Ruthenium-103	1.98E-04	5.69E-04	1.91E-03	pCi/m3	U
2106	702719003	10/28/2024	Ruthenium-103	-2.19E-04	5.61E-04	1.79E-03	pCi/m3	U
2106	703169009	11/26/2024	Ruthenium-103	6.17E-04	3.37E-04	1.28E-03	pCi/m3	U
2106	706986006	12/25/2024	Ruthenium-103	1.16E-04	4.29E-04	1.44E-03	pCi/m3	U
2106	657104002	1/23/2024	Ruthenium-106	-1.81E-04	2.20E-03	7.05E-03	pCi/m3	U
2106	659797008	2/21/2024	Ruthenium-106	-2.78E-03	2.43E-03	7.06E-03	pCi/m3	U
2106	664161008	3/19/2024	Ruthenium-106	8.55E-04	2.74E-03	9.39E-03	pCi/m3	U
2106	669419010	4/15/2024	Ruthenium-106	2.48E-03	2.61E-03	9.18E-03	pCi/m3	U
2106	674392008	5/13/2024	Ruthenium-106	-3.07E-04	2.33E-03	7.59E-03	pCi/m3	U
2106	676203008	6/11/2024	Ruthenium-106	2.66E-03	2.26E-03	8.10E-03	pCi/m3	U
2106	682054002	7/9/2024	Ruthenium-106	-2.19E-03	2.44E-03	7.25E-03	pCi/m3	U
2106	691730006	8/6/2024	Ruthenium-106	8.55E-05	4.65E-03	1.50E-02	pCi/m3	U
2106	691734009	8/27/2024	Ruthenium-106	-2.72E-03	2.12E-03	6.10E-03	pCi/m3	U
2106	695577004	10/1/2024	Ruthenium-106	-1.39E-03	2.12E-03	6.38E-03	pCi/m3	U
2106	702719003	10/28/2024	Ruthenium-106	2.54E-03	1.69E-03	6.07E-03	pCi/m3	U
2106	703169009	11/26/2024	Ruthenium-106	-1.37E-03	1.97E-03	5.98E-03	pCi/m3	U
2106	706986006	12/25/2024	Ruthenium-106	-3.68E-05	1.61E-03	5.17E-03	pCi/m3	U
2106	657104002	1/23/2024	Selenium-75	-1.70E-04	2.77E-04	8.21E-04	pCi/m3	U
2106	659797008	2/21/2024	Selenium-75	-1.40E-04	2.44E-04	8.05E-04	pCi/m3	U
2106	664161008	3/19/2024	Selenium-75	4.77E-04	3.27E-04	1.16E-03	pCi/m3	U
2106	669419010	4/15/2024	Selenium-75	-4.69E-04	4.17E-04	1.32E-03	pCi/m3	U
2106	674392008	5/13/2024	Selenium-75	7.51E-04	3.45E-04	1.22E-03	pCi/m3	U
2106	676203008	6/11/2024	Selenium-75	3.80E-03	9.71E-04	9.38E-04	pCi/m3	UI
2106	682054002	7/9/2024	Selenium-75	-8.92E-04	4.32E-04	1.11E-03	pCi/m3	U
2106	691730006	8/6/2024	Selenium-75	-1.65E-04	7.37E-04	2.27E-03	pCi/m3	U
2106	691734009	8/27/2024	Selenium-75	3.08E-04	4.57E-04	8.64E-04	pCi/m3	U
2106	695577004	10/1/2024	Selenium-75	8.42E-04	3.36E-04	1.21E-03	pCi/m3	U
2106	702719003	10/28/2024	Selenium-75	1.92E-04	2.50E-04	8.82E-04	pCi/m3	U
2106	703169009	11/26/2024	Selenium-75	8.44E-05	2.66E-04	8.34E-04	pCi/m3	U
2106	706986006	12/25/2024	Selenium-75	-2.08E-04	2.54E-04	7.42E-04	pCi/m3	U
2106	657104002	1/23/2024	Silver-108m	9.84E-06	1.92E-04	6.42E-04	pCi/m3	U
2106	659797008	2/21/2024	Silver-108m	1.45E-04	1.46E-04	5.28E-04	pCi/m3	U
2106	664161008	3/19/2024	Silver-108m	4.66E-05	2.03E-04	6.59E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	669419010	4/15/2024	Silver-108m	-1.14E-04	2.42E-04	7.73E-04	pCi/m3	U
2106	674392008	5/13/2024	Silver-108m	-3.81E-04	2.25E-04	6.53E-04	pCi/m3	U
2106	676203008	6/11/2024	Silver-108m	1.96E-04	1.68E-04	6.11E-04	pCi/m3	U
2106	682054002	7/9/2024	Silver-108m	1.88E-05	2.31E-04	6.93E-04	pCi/m3	U
2106	691730006	8/6/2024	Silver-108m	-1.36E-04	3.25E-04	1.04E-03	pCi/m3	U
2106	691734009	8/27/2024	Silver-108m	6.54E-05	1.47E-04	5.16E-04	pCi/m3	U
2106	695577004	10/1/2024	Silver-108m	-1.81E-04	1.74E-04	5.32E-04	pCi/m3	U
2106	702719003	10/28/2024	Silver-108m	2.14E-04	1.25E-04	4.59E-04	pCi/m3	U
2106	703169009	11/26/2024	Silver-108m	-7.51E-05	1.51E-04	4.82E-04	pCi/m3	U
2106	706986006	12/25/2024	Silver-108m	1.23E-04	1.45E-04	5.17E-04	pCi/m3	U
2106	657104002	1/23/2024	Silver-110m	1.44E-04	3.16E-04	1.12E-03	pCi/m3	U
2106	659797008	2/21/2024	Silver-110m	-7.72E-05	3.45E-04	1.14E-03	pCi/m3	U
2106	664161008	3/19/2024	Silver-110m	-1.73E-04	4.72E-04	1.27E-03	pCi/m3	U
2106	669419010	4/15/2024	Silver-110m	-3.39E-04	5.69E-04	1.73E-03	pCi/m3	U
2106	674392008	5/13/2024	Silver-110m	-2.92E-05	3.42E-04	1.09E-03	pCi/m3	U
2106	676203008	6/11/2024	Silver-110m	-2.82E-04	3.55E-04	1.06E-03	pCi/m3	U
2106	682054002	7/9/2024	Silver-110m	-1.93E-04	5.40E-04	1.04E-03	pCi/m3	U
2106	691730006	8/6/2024	Silver-110m	1.76E-04	7.23E-04	2.50E-03	pCi/m3	U
2106	691734009	8/27/2024	Silver-110m	-1.92E-04	3.38E-04	9.97E-04	pCi/m3	U
2106	695577004	10/1/2024	Silver-110m	-1.69E-04	4.05E-04	1.31E-03	pCi/m3	U
2106	702719003	10/28/2024	Silver-110m	1.20E-04	3.04E-04	1.06E-03	pCi/m3	U
2106	703169009	11/26/2024	Silver-110m	3.55E-04	2.43E-04	9.55E-04	pCi/m3	U
2106	706986006	12/25/2024	Silver-110m	3.49E-05	2.89E-04	9.86E-04	pCi/m3	U
2106	657104002	1/23/2024	Tellurium-132	-5.74E-02	4.91E-01	0.00E+00	pCi/m3	U
2106	659797008	2/21/2024	Tellurium-132	1.30E-01	1.27E-01	4.23E-01	pCi/m3	U
2106	664161008	3/19/2024	Tellurium-132	-6.13E-01	4.90E-01	0.00E+00	pCi/m3	U
2106	669419010	4/15/2024	Tellurium-132	-3.28E+00	1.89E+01	0.00E+00	pCi/m3	U
2106	674392008	5/13/2024	Tellurium-132	3.74E+01	9.84E+01	0.00E+00	pCi/m3	UI
2106	676203008	6/11/2024	Tellurium-132	9.45E-02	1.99E+00	0.00E+00	pCi/m3	UI
2106	682054002	7/9/2024	Tellurium-132	-3.50E+01	1.72E+01	0.00E+00	pCi/m3	U
2106	691730006	8/6/2024	Tellurium-132	-2.33E+04	3.43E+04	0.00E+00	pCi/m3	U
2106	691734009	8/27/2024	Tellurium-132	-5.61E+02	2.32E+02	0.00E+00	pCi/m3	U
2106	695577004	10/1/2024	Tellurium-132	9.49E+00	1.17E+01	0.00E+00	pCi/m3	UI
2106	702719003	10/28/2024	Tellurium-132	5.91E+02	8.29E+02	0.00E+00	pCi/m3	UI
2106	703169009	11/26/2024	Tellurium-132	-6.69E+00	5.08E+00	0.00E+00	pCi/m3	U
2106	706986006	12/25/2024	Tellurium-132	-5.56E+00	3.31E+00	0.00E+00	pCi/m3	U
2106	657104002	1/23/2024	Thallium-208	5.49E-04	3.11E-04	6.95E-04	pCi/m3	U
2106	659797008	2/21/2024	Thallium-208	1.20E-03	3.70E-04	5.75E-04	pCi/m3	UI
2106	664161008	3/19/2024	Thallium-208	9.65E-05	3.39E-04	1.09E-03	pCi/m3	U
2106	669419010	4/15/2024	Thallium-208	-4.61E-04	3.94E-04	1.21E-03	pCi/m3	U
2106	674392008	5/13/2024	Thallium-208	5.89E-04	6.07E-04	7.51E-04	pCi/m3	U
2106	676203008	6/11/2024	Thallium-208	2.86E-04	3.22E-04	7.79E-04	pCi/m3	U
2106	682054002	7/9/2024	Thallium-208	3.22E-04	4.67E-04	8.93E-04	pCi/m3	U
2106	691730006	8/6/2024	Thallium-208	1.31E-03	5.47E-04	2.02E-03	pCi/m3	U
2106	691734009	8/27/2024	Thallium-208	4.18E-04	3.70E-04	6.09E-04	pCi/m3	U
2106	695577004	10/1/2024	Thallium-208	5.03E-04	4.99E-04	6.86E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	702719003	10/28/2024	Thallium-208	3.79E-04	2.81E-04	4.85E-04	pCi/m3	U
2106	703169009	11/26/2024	Thallium-208	1.17E-03	2.87E-04	5.95E-04	pCi/m3	
2106	706986006	12/25/2024	Thallium-208	5.89E-04	2.50E-04	8.53E-04	pCi/m3	U
2106	657104002	1/23/2024	Thorium-228	1.43E-03	5.30E-04	9.01E-04	pCi/m3	UI
2106	659797008	2/21/2024	Thorium-228	3.96E-04	8.26E-04	1.68E-03	pCi/m3	U
2106	664161008	3/19/2024	Thorium-228	4.79E-04	5.76E-04	1.07E-03	pCi/m3	U
2106	669419010	4/15/2024	Thorium-228	7.33E-04	7.81E-04	1.67E-03	pCi/m3	U
2106	674392008	5/13/2024	Thorium-228	6.45E-04	5.92E-04	1.48E-03	pCi/m3	U
2106	676203008	6/11/2024	Thorium-228	9.82E-04	5.99E-04	1.59E-03	pCi/m3	U
2106	682054002	7/9/2024	Thorium-228	6.39E-04	7.53E-04	1.58E-03	pCi/m3	U
2106	691730006	8/6/2024	Thorium-228	1.98E-03	1.12E-03	1.55E-03	pCi/m3	UI
2106	691734009	8/27/2024	Thorium-228	4.79E-04	5.15E-04	9.08E-04	pCi/m3	U
2106	695577004	10/1/2024	Thorium-228	9.49E-04	8.47E-04	1.11E-03	pCi/m3	U
2106	702719003	10/28/2024	Thorium-228	8.60E-04	4.35E-04	7.75E-04	pCi/m3	UI
2106	703169009	11/26/2024	Thorium-228	4.32E-04	5.14E-04	9.39E-04	pCi/m3	U
2106	706986006	12/25/2024	Thorium-228	8.77E-04	3.64E-04	8.70E-04	pCi/m3	UI
2106	657104002	1/23/2024	Thorium-230	1.64E-03	7.02E-04	1.98E-03	pCi/m3	U
2106	659797008	2/21/2024	Thorium-230	5.13E-04	5.20E-04	1.84E-03	pCi/m3	U
2106	664161008	3/19/2024	Thorium-230	6.53E-04	6.08E-04	1.99E-03	pCi/m3	U
2106	669419010	4/15/2024	Thorium-230	-4.33E-04	6.73E-04	1.99E-03	pCi/m3	U
2106	674392008	5/13/2024	Thorium-230	5.59E-04	4.65E-04	1.68E-03	pCi/m3	U
2106	676203008	6/11/2024	Thorium-230	6.12E-04	8.12E-04	1.99E-03	pCi/m3	U
2106	682054002	7/9/2024	Thorium-230	5.81E-04	8.92E-04	1.89E-03	pCi/m3	U
2106	691730006	8/6/2024	Thorium-230	4.26E-03	1.23E-03	3.93E-03	pCi/m3	UI
2106	691734009	8/27/2024	Thorium-230	3.53E-05	5.09E-04	1.66E-03	pCi/m3	U
2106	695577004	10/1/2024	Thorium-230	2.12E-03	8.99E-04	2.22E-03	pCi/m3	U
2106	702719003	10/28/2024	Thorium-230	1.06E-03	6.48E-04	1.35E-03	pCi/m3	U
2106	703169009	11/26/2024	Thorium-230	7.41E-04	7.70E-04	1.73E-03	pCi/m3	U
2106	706986006	12/25/2024	Thorium-230	3.68E-04	4.64E-04	1.53E-03	pCi/m3	U
2106	657104002	1/23/2024	Thorium-232	-6.27E-04	1.17E-03	3.90E-03	pCi/m3	U
2106	659797008	2/21/2024	Thorium-232	-1.06E-03	1.32E-03	4.12E-03	pCi/m3	U
2106	664161008	3/19/2024	Thorium-232	-1.20E-03	1.67E-03	5.21E-03	pCi/m3	U
2106	669419010	4/15/2024	Thorium-232	5.47E-04	1.99E-03	4.62E-03	pCi/m3	U
2106	674392008	5/13/2024	Thorium-232	1.22E-03	1.75E-03	4.41E-03	pCi/m3	U
2106	676203008	6/11/2024	Thorium-232	-2.75E-04	1.35E-03	4.42E-03	pCi/m3	U
2106	682054002	7/9/2024	Thorium-232	4.71E-03	2.14E-03	5.24E-03	pCi/m3	U
2106	691730006	8/6/2024	Thorium-232	2.62E-03	2.54E-03	6.67E-03	pCi/m3	U
2106	691734009	8/27/2024	Thorium-232	1.59E-03	1.58E-03	3.90E-03	pCi/m3	U
2106	695577004	10/1/2024	Thorium-232	-6.99E-04	1.38E-03	4.43E-03	pCi/m3	U
2106	702719003	10/28/2024	Thorium-232	1.06E-03	1.35E-03	3.11E-03	pCi/m3	U
2106	703169009	11/26/2024	Thorium-232	1.38E-03	1.11E-03	3.70E-03	pCi/m3	U
2106	706986006	12/25/2024	Thorium-232	3.02E-03	1.06E-03	4.42E-03	pCi/m3	U
2106	657104002	1/23/2024	Thorium-234	9.85E-03	9.97E-03	2.72E-02	pCi/m3	U
2106	659797008	2/21/2024	Thorium-234	1.95E-03	8.92E-03	1.89E-02	pCi/m3	U
2106	664161008	3/19/2024	Thorium-234	2.01E-03	7.27E-03	1.59E-02	pCi/m3	U
2106	669419010	4/15/2024	Thorium-234	-2.93E-03	1.59E-02	4.98E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	674392008	5/13/2024	Thorium-234	-3.05E-03	6.67E-03	2.10E-02	pCi/m3	U
2106	676203008	6/11/2024	Thorium-234	3.87E-03	1.33E-02	2.37E-02	pCi/m3	U
2106	682054002	7/9/2024	Thorium-234	9.97E-04	1.47E-02	3.00E-02	pCi/m3	U
2106	691730006	8/6/2024	Thorium-234	5.65E-04	2.53E-03	8.83E-03	pCi/m3	U
2106	691734009	8/27/2024	Thorium-234	-6.02E-03	4.93E-03	1.48E-02	pCi/m3	U
2106	695577004	10/1/2024	Thorium-234	-2.06E-03	9.25E-03	2.91E-02	pCi/m3	U
2106	702719003	10/28/2024	Thorium-234	4.33E-03	6.37E-03	1.08E-02	pCi/m3	U
2106	703169009	11/26/2024	Thorium-234	1.77E-03	7.46E-03	1.92E-02	pCi/m3	U
2106	706986006	12/25/2024	Thorium-234	1.87E-03	1.23E-03	4.58E-03	pCi/m3	U
2106	657104002	1/23/2024	Uranium-234	1.64E-03	7.02E-04	1.98E-03	pCi/m3	U
2106	659797008	2/21/2024	Uranium-234	5.13E-04	5.20E-04	1.84E-03	pCi/m3	U
2106	664161008	3/19/2024	Uranium-234	6.53E-04	6.08E-04	1.99E-03	pCi/m3	U
2106	669419010	4/15/2024	Uranium-234	-4.33E-04	6.73E-04	1.99E-03	pCi/m3	U
2106	674392008	5/13/2024	Uranium-234	5.59E-04	4.65E-04	1.68E-03	pCi/m3	U
2106	676203008	6/11/2024	Uranium-234	6.12E-04	8.12E-04	1.99E-03	pCi/m3	U
2106	682054002	7/9/2024	Uranium-234	5.81E-04	8.92E-04	1.89E-03	pCi/m3	U
2106	691730006	8/6/2024	Uranium-234	4.26E-03	1.23E-03	3.93E-03	pCi/m3	U
2106	691734009	8/27/2024	Uranium-234	3.53E-05	5.09E-04	1.66E-03	pCi/m3	U
2106	695577004	10/1/2024	Uranium-234	2.12E-03	8.99E-04	2.22E-03	pCi/m3	U
2106	702719003	10/28/2024	Uranium-234	1.06E-03	6.48E-04	1.35E-03	pCi/m3	U
2106	703169009	11/26/2024	Uranium-234	7.41E-04	7.70E-04	1.73E-03	pCi/m3	U
2106	706986006	12/25/2024	Uranium-234	3.68E-04	4.64E-04	1.53E-03	pCi/m3	U
2106	657104002	1/23/2024	Zinc-65	-1.55E-04	6.20E-04	1.70E-03	pCi/m3	U
2106	659797008	2/21/2024	Zinc-65	3.86E-04	6.42E-04	2.27E-03	pCi/m3	U
2106	664161008	3/19/2024	Zinc-65	-9.88E-05	6.91E-04	2.18E-03	pCi/m3	U
2106	669419010	4/15/2024	Zinc-65	4.70E-04	9.49E-04	2.95E-03	pCi/m3	U
2106	674392008	5/13/2024	Zinc-65	8.54E-04	6.16E-04	2.36E-03	pCi/m3	U
2106	676203008	6/11/2024	Zinc-65	-4.42E-04	7.27E-04	2.18E-03	pCi/m3	U
2106	682054002	7/9/2024	Zinc-65	-2.47E-04	6.45E-04	2.02E-03	pCi/m3	U
2106	691730006	8/6/2024	Zinc-65	1.42E-03	1.57E-03	5.68E-03	pCi/m3	U
2106	691734009	8/27/2024	Zinc-65	9.16E-04	6.86E-04	2.62E-03	pCi/m3	U
2106	695577004	10/1/2024	Zinc-65	-5.23E-04	7.56E-04	1.93E-03	pCi/m3	U
2106	702719003	10/28/2024	Zinc-65	-3.94E-04	4.46E-04	1.35E-03	pCi/m3	U
2106	703169009	11/26/2024	Zinc-65	1.58E-04	6.03E-04	2.06E-03	pCi/m3	U
2106	706986006	12/25/2024	Zinc-65	-1.32E-03	7.68E-04	2.00E-03	pCi/m3	U
2106	657104002	1/23/2024	Zirconium-95	-1.07E-04	6.93E-04	2.16E-03	pCi/m3	U
2106	659797008	2/21/2024	Zirconium-95	-3.26E-04	6.12E-04	1.84E-03	pCi/m3	U
2106	664161008	3/19/2024	Zirconium-95	1.60E-03	8.57E-04	3.25E-03	pCi/m3	U
2106	669419010	4/15/2024	Zirconium-95	5.03E-05	9.67E-04	3.14E-03	pCi/m3	U
2106	674392008	5/13/2024	Zirconium-95	-7.67E-04	7.62E-04	2.22E-03	pCi/m3	U
2106	676203008	6/11/2024	Zirconium-95	-9.86E-04	7.91E-04	2.13E-03	pCi/m3	U
2106	682054002	7/9/2024	Zirconium-95	-9.48E-04	7.10E-04	2.13E-03	pCi/m3	U
2106	691730006	8/6/2024	Zirconium-95	1.43E-03	1.97E-03	7.14E-03	pCi/m3	U
2106	691734009	8/27/2024	Zirconium-95	-1.32E-03	7.88E-04	2.05E-03	pCi/m3	U
2106	695577004	10/1/2024	Zirconium-95	-9.79E-04	7.85E-04	2.42E-03	pCi/m3	U
2106	702719003	10/28/2024	Zirconium-95	1.27E-05	6.87E-04	1.95E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	703169009	11/26/2024	Zirconium-95	-2.23E-04	5.45E-04	1.65E-03	pCi/m3	U
2106	706986006	12/25/2024	Zirconium-95	-1.10E-04	5.60E-04	1.86E-03	pCi/m3	U
2107	657104003	1/23/2024	Actinium-228	1.88E-03	1.01E-03	4.01E-03	pCi/m3	U
2107	659797009	2/20/2024	Actinium-228	5.16E-03	1.63E-03	4.12E-03	pCi/m3	UI
2107	664161009	3/19/2024	Actinium-228	2.17E-03	1.30E-03	4.82E-03	pCi/m3	U
2107	669419011	4/15/2024	Actinium-228	8.80E-04	1.76E-03	5.86E-03	pCi/m3	U
2107	674392009	5/14/2024	Actinium-228	9.41E-04	1.65E-03	4.54E-03	pCi/m3	U
2107	676203009	6/11/2024	Actinium-228	1.25E-03	1.57E-03	5.40E-03	pCi/m3	U
2107	682054005	7/8/2024	Actinium-228	3.42E-03	1.81E-03	7.08E-03	pCi/m3	U
2107	691730002	8/5/2024	Actinium-228	1.09E-03	4.26E-03	7.19E-03	pCi/m3	U
2107	691734007	8/27/2024	Actinium-228	7.62E-04	1.58E-03	4.68E-03	pCi/m3	U
2107	695577001	9/30/2024	Actinium-228	1.45E-04	1.60E-03	4.96E-03	pCi/m3	U
2107	702719004	10/28/2024	Actinium-228	2.44E-03	1.62E-03	5.93E-03	pCi/m3	U
2107	703169008	11/26/2024	Actinium-228	8.85E-04	1.39E-03	4.48E-03	pCi/m3	U
2107	706986010	12/25/2024	Actinium-228	4.54E-04	1.46E-03	5.05E-03	pCi/m3	U
2107	657104003	1/23/2024	Americium-241	1.51E-03	9.07E-04	2.31E-03	pCi/m3	U
2107	659797009	2/20/2024	Americium-241	-4.70E-04	1.45E-03	4.82E-03	pCi/m3	U
2107	664161009	3/19/2024	Americium-241	6.29E-05	2.15E-03	6.76E-03	pCi/m3	U
2107	669419011	4/15/2024	Americium-241	6.43E-04	1.04E-03	3.67E-03	pCi/m3	U
2107	674392009	5/14/2024	Americium-241	-4.05E-04	1.18E-03	3.99E-03	pCi/m3	U
2107	676203009	6/11/2024	Americium-241	-6.15E-04	8.85E-04	2.63E-03	pCi/m3	U
2107	682054005	7/8/2024	Americium-241	-1.54E-04	2.75E-04	9.27E-04	pCi/m3	U
2107	691730002	8/5/2024	Americium-241	-1.59E-04	2.19E-03	7.29E-03	pCi/m3	U
2107	691734007	8/27/2024	Americium-241	8.50E-04	8.22E-04	2.98E-03	pCi/m3	U
2107	695577001	9/30/2024	Americium-241	2.74E-04	2.21E-04	7.60E-04	pCi/m3	U
2107	702719004	10/28/2024	Americium-241	1.61E-04	1.64E-04	5.71E-04	pCi/m3	U
2107	703169008	11/26/2024	Americium-241	-3.99E-03	2.01E-03	6.29E-03	pCi/m3	U
2107	706986010	12/25/2024	Americium-241	1.23E-04	1.97E-04	7.02E-04	pCi/m3	U
2107	657104003	1/23/2024	Antimony-124	1.02E-03	1.06E-03	3.93E-03	pCi/m3	U
2107	659797009	2/20/2024	Antimony-124	-9.68E-04	8.86E-04	2.48E-03	pCi/m3	U
2107	664161009	3/19/2024	Antimony-124	-1.58E-03	1.05E-03	2.31E-03	pCi/m3	U
2107	669419011	4/15/2024	Antimony-124	-5.26E-03	1.59E-03	2.45E-03	pCi/m3	U
2107	674392009	5/14/2024	Antimony-124	6.30E-04	1.51E-03	5.24E-03	pCi/m3	U
2107	676203009	6/11/2024	Antimony-124	-7.68E-04	1.27E-03	3.78E-03	pCi/m3	U
2107	682054005	7/8/2024	Antimony-124	-2.72E-03	1.98E-03	4.74E-03	pCi/m3	U
2107	691730002	8/5/2024	Antimony-124	-3.09E-03	3.48E-03	9.83E-03	pCi/m3	U
2107	691734007	8/27/2024	Antimony-124	-6.57E-03	1.96E-03	2.43E-03	pCi/m3	U
2107	695577001	9/30/2024	Antimony-124	2.22E-04	1.35E-03	4.43E-03	pCi/m3	U
2107	702719004	10/28/2024	Antimony-124	-1.45E-03	1.50E-03	3.59E-03	pCi/m3	U
2107	703169008	11/26/2024	Antimony-124	1.05E-03	1.08E-03	4.03E-03	pCi/m3	U
2107	706986010	12/25/2024	Antimony-124	1.73E-04	1.49E-03	4.85E-03	pCi/m3	U
2107	657104003	1/23/2024	Antimony-125	2.03E-04	5.35E-04	1.84E-03	pCi/m3	U
2107	659797009	2/20/2024	Antimony-125	-4.98E-04	5.60E-04	1.80E-03	pCi/m3	U
2107	664161009	3/19/2024	Antimony-125	1.71E-03	6.72E-04	2.56E-03	pCi/m3	U
2107	669419011	4/15/2024	Antimony-125	1.03E-03	7.80E-04	2.78E-03	pCi/m3	U
2107	674392009	5/14/2024	Antimony-125	-3.62E-04	6.13E-04	1.84E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	676203009	6/11/2024	Antimony-125	-1.89E-04	7.36E-04	2.45E-03	pCi/m3	U
2107	682054005	7/8/2024	Antimony-125	4.95E-04	6.86E-04	2.44E-03	pCi/m3	U
2107	691730002	8/5/2024	Antimony-125	3.51E-04	9.10E-04	3.15E-03	pCi/m3	U
2107	691734007	8/27/2024	Antimony-125	9.03E-05	7.63E-04	2.55E-03	pCi/m3	U
2107	695577001	9/30/2024	Antimony-125	-1.15E-04	6.13E-04	2.03E-03	pCi/m3	U
2107	702719004	10/28/2024	Antimony-125	3.53E-04	6.76E-04	2.35E-03	pCi/m3	U
2107	703169008	11/26/2024	Antimony-125	4.98E-05	7.25E-04	2.35E-03	pCi/m3	U
2107	706986010	12/25/2024	Antimony-125	1.83E-04	7.11E-04	2.21E-03	pCi/m3	U
2107	657104003	1/23/2024	Barium-140	-1.40E-04	5.70E-03	1.86E-02	pCi/m3	U
2107	659797009	2/20/2024	Barium-140	7.13E-03	4.38E-03	1.58E-02	pCi/m3	U
2107	664161009	3/19/2024	Barium-140	1.13E-02	5.64E-03	2.13E-02	pCi/m3	U
2107	669419011	4/15/2024	Barium-140	-9.65E-03	1.58E-02	4.91E-02	pCi/m3	U
2107	674392009	5/14/2024	Barium-140	7.67E-03	2.48E-02	7.88E-02	pCi/m3	U
2107	676203009	6/11/2024	Barium-140	-1.40E-03	8.69E-03	2.86E-02	pCi/m3	U
2107	682054005	7/8/2024	Barium-140	-2.36E-02	1.96E-02	5.52E-02	pCi/m3	U
2107	691730002	8/5/2024	Barium-140	3.19E-02	1.61E-01	5.41E-01	pCi/m3	U
2107	691734007	8/27/2024	Barium-140	2.12E-02	3.71E-02	1.12E-01	pCi/m3	U
2107	695577001	9/30/2024	Barium-140	-2.19E-03	1.62E-02	4.71E-02	pCi/m3	U
2107	702719004	10/28/2024	Barium-140	7.48E-03	6.28E-02	1.82E-01	pCi/m3	U
2107	703169008	11/26/2024	Barium-140	7.49E-03	1.24E-02	4.35E-02	pCi/m3	U
2107	706986010	12/25/2024	Barium-140	6.75E-03	8.09E-03	2.93E-02	pCi/m3	U
2107	657104003	1/23/2024	Beryllium-7	7.18E-02	8.04E-03	1.03E-02	pCi/m3	
2107	659797009	2/20/2024	Beryllium-7	9.19E-02	7.01E-03	8.84E-03	pCi/m3	
2107	664161009	3/19/2024	Beryllium-7	8.61E-02	7.14E-03	9.36E-03	pCi/m3	
2107	669419011	4/15/2024	Beryllium-7	1.27E-01	9.41E-03	1.35E-02	pCi/m3	
2107	674392009	5/14/2024	Beryllium-7	1.35E-01	1.16E-02	1.28E-02	pCi/m3	
2107	676203009	6/11/2024	Beryllium-7	1.16E-01	1.26E-02	1.05E-02	pCi/m3	
2107	682054005	7/8/2024	Beryllium-7	1.47E-01	1.51E-02	1.53E-02	pCi/m3	
2107	691730002	8/5/2024	Beryllium-7	1.20E-01	1.93E-02	3.15E-02	pCi/m3	
2107	691734007	8/27/2024	Beryllium-7	1.36E-01	1.36E-02	1.18E-02	pCi/m3	
2107	695577001	9/30/2024	Beryllium-7	9.38E-02	1.21E-02	1.45E-02	pCi/m3	
2107	702719004	10/28/2024	Beryllium-7	1.23E-01	1.43E-02	1.74E-02	pCi/m3	
2107	703169008	11/26/2024	Beryllium-7	8.12E-02	8.53E-03	1.27E-02	pCi/m3	
2107	706986010	12/25/2024	Beryllium-7	8.29E-02	8.01E-03	1.05E-02	pCi/m3	
2107	650210005	1/2/2024	BETA	3.81E-02	1.84E-03	1.70E-03	pCi/m3	
2107	650994005	1/8/2024	BETA	4.24E-02	1.91E-03	1.65E-03	pCi/m3	
2107	651848007	1/17/2024	BETA	4.22E-02	1.51E-03	1.01E-03	pCi/m3	
2107	652268005	1/23/2024	BETA	4.37E-02	1.93E-03	1.54E-03	pCi/m3	
2107	653178021	1/29/2024	BETA	2.01E-02	1.41E-03	1.66E-03	pCi/m3	
2107	654187019	2/6/2024	BETA	3.66E-02	1.45E-03	1.09E-03	pCi/m3	
2107	655008005	2/13/2024	BETA	2.49E-02	1.54E-03	1.70E-03	pCi/m3	
2107	655819019	2/20/2024	BETA	3.97E-02	1.83E-03	1.46E-03	pCi/m3	
2107	656511007	2/26/2024	BETA	3.16E-02	1.59E-03	1.43E-03	pCi/m3	
2107	657416005	3/4/2024	BETA	2.68E-02	1.43E-03	1.36E-03	pCi/m3	
2107	658450005	3/12/2024	BETA	2.26E-02	1.25E-03	1.13E-03	pCi/m3	
2107	659313017	3/19/2024	BETA	2.99E-02	1.46E-03	1.27E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	660083016	3/27/2024	BETA	2.86E-02	1.44E-03	1.31E-03	pCi/m3	
2107	660793015	4/2/2024	BETA	4.04E-02	1.85E-03	1.41E-03	pCi/m3	
2107	662052005	4/8/2024	BETA	2.22E-02	1.56E-03	1.81E-03	pCi/m3	
2107	662074027	4/15/2024	BETA	2.83E-02	1.58E-03	1.51E-03	pCi/m3	
2107	664092015	4/23/2024	BETA	3.27E-02	1.59E-03	1.28E-03	pCi/m3	
2107	665204021	4/30/2024	BETA	3.63E-02	1.78E-03	1.57E-03	pCi/m3	
2107	666121011	5/7/2024	BETA	2.83E-02	1.58E-03	1.45E-03	pCi/m3	
2107	667159017	5/14/2024	BETA	2.53E-02	1.50E-03	1.52E-03	pCi/m3	
2107	668220008	5/20/2024	BETA	2.73E-02	1.67E-03	1.65E-03	pCi/m3	
2107	669062013	5/28/2024	BETA	2.95E-02	1.50E-03	1.36E-03	pCi/m3	
2107	669755015	6/4/2024	BETA	2.62E-02	1.50E-03	1.49E-03	pCi/m3	
2107	670837019	6/11/2024	BETA	1.94E-02	1.21E-03	1.26E-03	pCi/m3	
2107	671897007	6/18/2024	BETA	4.11E-02	1.88E-03	1.60E-03	pCi/m3	
2107	672773009	6/25/2024	BETA	3.05E-02	1.60E-03	1.44E-03	pCi/m3	
2107	673676005	7/1/2024	BETA	3.73E-02	1.96E-03	1.77E-03	pCi/m3	
2107	674336009	7/8/2024	BETA	3.01E-02	1.52E-03	1.37E-03	pCi/m3	
2107	675686009	7/15/2024	BETA	3.74E-02	1.93E-03	1.71E-03	pCi/m3	
2107	676802017	7/23/2024	BETA	2.64E-02	1.38E-03	1.32E-03	pCi/m3	
2107	677970007	7/30/2024	BETA	2.54E-02	1.55E-03	1.96E-03	pCi/m3	
2107	679202003	8/5/2024	BETA	3.77E-02	2.00E-03	1.78E-03	pCi/m3	
2107	680237019	8/13/2024	BETA	4.27E-02	1.73E-03	1.16E-03	pCi/m3	
2107	681488011	8/20/2024	BETA	3.53E-02	1.74E-03	1.39E-03	pCi/m3	
2107	682604013	8/27/2024	BETA	4.75E-02	2.03E-03	1.53E-03	pCi/m3	
2107	683692007	9/4/2024	BETA	3.83E-02	1.71E-03	1.38E-03	pCi/m3	
2107	684664019	9/10/2024	BETA	3.58E-02	1.89E-03	1.70E-03	pCi/m3	
2107	685842011	9/17/2024	BETA	3.80E-02	3.66E-03	1.57E-03	pCi/m3	
2107	686976019	9/24/2024	BETA	4.02E-02	1.73E-03	1.32E-03	pCi/m3	
2107	687851001	9/30/2024	BETA	3.10E-02	1.62E-03	1.41E-03	pCi/m3	
2107	689079017	10/8/2024	BETA	4.31E-02	1.61E-03	1.12E-03	pCi/m3	
2107	690093003	10/16/2024	BETA	4.34E-02	1.66E-03	1.09E-03	pCi/m3	
2107	691165019	10/22/2024	BETA	6.50E-02	2.27E-03	1.37E-03	pCi/m3	
2107	692327009	10/28/2024	BETA	6.88E-02	2.47E-03	1.61E-03	pCi/m3	
2107	693531017	11/5/2024	BETA	3.95E-02	1.56E-03	1.09E-03	pCi/m3	
2107	694911011	11/12/2024	BETA	3.58E-02	1.60E-03	1.26E-03	pCi/m3	
2107	696166015	11/19/2024	BETA	4.28E-02	1.75E-03	1.26E-03	pCi/m3	
2107	697367015	11/26/2024	BETA	3.48E-02	1.62E-03	1.42E-03	pCi/m3	
2107	698165021	12/4/2024	BETA	5.16E-02	1.81E-03	1.19E-03	pCi/m3	
2107	699433001	12/9/2024	BETA	5.59E-02	2.53E-03	2.04E-03	pCi/m3	
2107	700752001	12/17/2024	BETA	3.88E-02	1.58E-03	1.19E-03	pCi/m3	
2107	701911019	12/25/2024	BETA	3.65E-02	1.53E-03	1.28E-03	pCi/m3	
2107	657104003	1/23/2024	Bismuth-214	4.50E-04	6.21E-04	1.80E-03	pCi/m3	U
2107	659797009	2/20/2024	Bismuth-214	-1.25E-03	7.21E-04	2.20E-03	pCi/m3	U
2107	664161009	3/19/2024	Bismuth-214	5.87E-04	7.40E-04	2.48E-03	pCi/m3	U
2107	669419011	4/15/2024	Bismuth-214	-6.16E-04	7.83E-04	2.51E-03	pCi/m3	U
2107	674392009	5/14/2024	Bismuth-214	4.25E-04	7.03E-04	2.36E-03	pCi/m3	U
2107	676203009	6/11/2024	Bismuth-214	-1.04E-03	7.30E-04	1.95E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	682054005	7/8/2024	Bismuth-214	2.84E-04	1.13E-03	3.35E-03	pCi/m3	U
2107	691730002	8/5/2024	Bismuth-214	2.49E-03	1.62E-03	2.78E-03	pCi/m3	U
2107	691734007	8/27/2024	Bismuth-214	1.87E-04	7.09E-04	2.44E-03	pCi/m3	U
2107	695577001	9/30/2024	Bismuth-214	1.54E-03	1.13E-03	2.58E-03	pCi/m3	U
2107	702719004	10/28/2024	Bismuth-214	2.14E-03	8.32E-04	2.51E-03	pCi/m3	U
2107	703169008	11/26/2024	Bismuth-214	2.34E-04	7.47E-04	2.47E-03	pCi/m3	U
2107	706986010	12/25/2024	Bismuth-214	2.79E-03	1.17E-03	2.39E-03	pCi/m3	UI
2107	657104003	1/23/2024	Cerium-141	-4.73E-04	5.13E-04	1.54E-03	pCi/m3	U
2107	659797009	2/20/2024	Cerium-141	-1.55E-04	5.71E-04	1.61E-03	pCi/m3	U
2107	664161009	3/19/2024	Cerium-141	-6.00E-04	6.28E-04	1.88E-03	pCi/m3	U
2107	669419011	4/15/2024	Cerium-141	-8.10E-04	8.62E-04	2.69E-03	pCi/m3	U
2107	674392009	5/14/2024	Cerium-141	7.86E-04	9.61E-04	3.21E-03	pCi/m3	U
2107	676203009	6/11/2024	Cerium-141	-5.59E-04	6.94E-04	2.15E-03	pCi/m3	U
2107	682054005	7/8/2024	Cerium-141	-2.20E-04	8.17E-04	2.63E-03	pCi/m3	U
2107	691730002	8/5/2024	Cerium-141	-2.14E-03	2.80E-03	8.65E-03	pCi/m3	U
2107	691734007	8/27/2024	Cerium-141	3.99E-04	9.81E-04	3.27E-03	pCi/m3	U
2107	695577001	9/30/2024	Cerium-141	-1.88E-03	6.99E-04	1.97E-03	pCi/m3	U
2107	702719004	10/28/2024	Cerium-141	-6.15E-04	1.04E-03	3.27E-03	pCi/m3	U
2107	703169008	11/26/2024	Cerium-141	3.35E-04	8.42E-04	2.82E-03	pCi/m3	U
2107	706986010	12/25/2024	Cerium-141	-5.17E-04	5.52E-04	1.71E-03	pCi/m3	U
2107	657104003	1/23/2024	Cerium-144	-1.24E-03	1.04E-03	3.08E-03	pCi/m3	U
2107	659797009	2/20/2024	Cerium-144	-7.97E-04	1.14E-03	3.46E-03	pCi/m3	U
2107	664161009	3/19/2024	Cerium-144	3.51E-04	1.12E-03	3.65E-03	pCi/m3	U
2107	669419011	4/15/2024	Cerium-144	-1.10E-03	1.36E-03	4.31E-03	pCi/m3	U
2107	674392009	5/14/2024	Cerium-144	5.36E-04	1.16E-03	3.83E-03	pCi/m3	U
2107	676203009	6/11/2024	Cerium-144	-2.38E-04	1.31E-03	4.22E-03	pCi/m3	U
2107	682054005	7/8/2024	Cerium-144	7.20E-04	9.97E-04	3.44E-03	pCi/m3	U
2107	691730002	8/5/2024	Cerium-144	3.97E-03	2.24E-03	7.90E-03	pCi/m3	U
2107	691734007	8/27/2024	Cerium-144	-1.93E-03	1.09E-03	3.13E-03	pCi/m3	U
2107	695577001	9/30/2024	Cerium-144	-9.81E-04	9.65E-04	3.01E-03	pCi/m3	U
2107	702719004	10/28/2024	Cerium-144	3.01E-04	1.13E-03	3.77E-03	pCi/m3	U
2107	703169008	11/26/2024	Cerium-144	-1.15E-03	1.44E-03	4.60E-03	pCi/m3	U
2107	706986010	12/25/2024	Cerium-144	-4.75E-04	9.57E-04	3.07E-03	pCi/m3	U
2107	657104003	1/23/2024	Cesium-134	-8.21E-05	2.77E-04	8.49E-04	pCi/m3	U
2107	659797009	2/20/2024	Cesium-134	-4.44E-04	2.76E-04	8.22E-04	pCi/m3	U
2107	664161009	3/19/2024	Cesium-134	4.70E-04	3.35E-04	1.18E-03	pCi/m3	U
2107	669419011	4/15/2024	Cesium-134	5.44E-05	4.32E-04	1.25E-03	pCi/m3	U
2107	674392009	5/14/2024	Cesium-134	9.21E-04	3.78E-04	1.47E-03	pCi/m3	U
2107	676203009	6/11/2024	Cesium-134	3.08E-06	4.12E-04	1.34E-03	pCi/m3	U
2107	682054005	7/8/2024	Cesium-134	-1.52E-04	3.97E-04	1.28E-03	pCi/m3	U
2107	691730002	8/5/2024	Cesium-134	2.71E-04	5.76E-04	1.68E-03	pCi/m3	U
2107	691734007	8/27/2024	Cesium-134	-1.75E-04	3.08E-04	9.76E-04	pCi/m3	U
2107	695577001	9/30/2024	Cesium-134	-8.98E-05	2.91E-04	8.93E-04	pCi/m3	U
2107	702719004	10/28/2024	Cesium-134	-4.39E-04	4.69E-04	1.30E-03	pCi/m3	U
2107	703169008	11/26/2024	Cesium-134	-1.17E-04	2.88E-04	7.81E-04	pCi/m3	U
2107	706986010	12/25/2024	Cesium-134	-2.54E-04	4.10E-04	1.21E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	657104003	1/23/2024	Cesium-137	9.47E-05	2.53E-04	8.47E-04	pCi/m3	U
2107	659797009	2/20/2024	Cesium-137	2.54E-04	2.34E-04	8.14E-04	pCi/m3	U
2107	664161009	3/19/2024	Cesium-137	2.75E-04	2.42E-04	8.90E-04	pCi/m3	U
2107	669419011	4/15/2024	Cesium-137	-1.63E-04	2.82E-04	8.51E-04	pCi/m3	U
2107	674392009	5/14/2024	Cesium-137	-1.59E-04	3.11E-04	9.71E-04	pCi/m3	U
2107	676203009	6/11/2024	Cesium-137	7.54E-05	2.90E-04	9.72E-04	pCi/m3	U
2107	682054005	7/8/2024	Cesium-137	-5.68E-04	4.21E-04	1.19E-03	pCi/m3	U
2107	691730002	8/5/2024	Cesium-137	-3.35E-04	4.18E-04	1.26E-03	pCi/m3	U
2107	691734007	8/27/2024	Cesium-137	1.93E-04	2.96E-04	1.01E-03	pCi/m3	U
2107	695577001	9/30/2024	Cesium-137	-1.86E-04	2.95E-04	9.01E-04	pCi/m3	U
2107	702719004	10/28/2024	Cesium-137	2.74E-04	3.38E-04	1.18E-03	pCi/m3	U
2107	703169008	11/26/2024	Cesium-137	-5.55E-04	3.04E-04	8.86E-04	pCi/m3	U
2107	706986010	12/25/2024	Cesium-137	4.14E-05	2.58E-04	8.51E-04	pCi/m3	U
2107	657104003	1/23/2024	Chromium-51	2.48E-03	4.17E-03	1.33E-02	pCi/m3	U
2107	659797009	2/20/2024	Chromium-51	2.81E-03	3.74E-03	1.25E-02	pCi/m3	U
2107	664161009	3/19/2024	Chromium-51	-6.68E-04	4.42E-03	1.45E-02	pCi/m3	U
2107	669419011	4/15/2024	Chromium-51	2.87E-03	7.16E-03	2.48E-02	pCi/m3	U
2107	674392009	5/14/2024	Chromium-51	3.00E-03	7.98E-03	2.68E-02	pCi/m3	U
2107	676203009	6/11/2024	Chromium-51	2.72E-03	5.40E-03	1.90E-02	pCi/m3	U
2107	682054005	7/8/2024	Chromium-51	-7.58E-03	7.06E-03	2.22E-02	pCi/m3	U
2107	691730002	8/5/2024	Chromium-51	-1.50E-02	2.76E-02	8.49E-02	pCi/m3	U
2107	691734007	8/27/2024	Chromium-51	-5.46E-03	9.03E-03	2.60E-02	pCi/m3	U
2107	695577001	9/30/2024	Chromium-51	5.67E-03	5.91E-03	2.14E-02	pCi/m3	U
2107	702719004	10/28/2024	Chromium-51	8.14E-03	1.24E-02	4.00E-02	pCi/m3	U
2107	703169008	11/26/2024	Chromium-51	4.53E-04	6.52E-03	2.12E-02	pCi/m3	U
2107	706986010	12/25/2024	Chromium-51	-7.22E-05	4.64E-03	1.59E-02	pCi/m3	U
2107	657104003	1/23/2024	Cobalt-57	1.53E-04	1.34E-04	3.96E-04	pCi/m3	U
2107	659797009	2/20/2024	Cobalt-57	2.51E-04	1.65E-04	5.26E-04	pCi/m3	U
2107	664161009	3/19/2024	Cobalt-57	-2.71E-04	1.65E-04	4.45E-04	pCi/m3	U
2107	669419011	4/15/2024	Cobalt-57	7.57E-04	2.05E-04	6.00E-04	pCi/m3	UI
2107	674392009	5/14/2024	Cobalt-57	-3.53E-04	1.69E-04	4.63E-04	pCi/m3	U
2107	676203009	6/11/2024	Cobalt-57	-1.01E-04	1.70E-04	5.37E-04	pCi/m3	U
2107	682054005	7/8/2024	Cobalt-57	-1.23E-04	1.31E-04	4.07E-04	pCi/m3	U
2107	691730002	8/5/2024	Cobalt-57	1.69E-05	3.00E-04	9.77E-04	pCi/m3	U
2107	691734007	8/27/2024	Cobalt-57	5.50E-05	1.60E-04	5.36E-04	pCi/m3	U
2107	695577001	9/30/2024	Cobalt-57	4.08E-05	1.25E-04	4.21E-04	pCi/m3	U
2107	702719004	10/28/2024	Cobalt-57	1.33E-04	1.24E-04	4.36E-04	pCi/m3	U
2107	703169008	11/26/2024	Cobalt-57	1.70E-04	1.72E-04	5.92E-04	pCi/m3	U
2107	706986010	12/25/2024	Cobalt-57	1.56E-05	1.06E-04	3.57E-04	pCi/m3	U
2107	657104003	1/23/2024	Cobalt-58	-5.41E-04	4.07E-04	1.10E-03	pCi/m3	U
2107	659797009	2/20/2024	Cobalt-58	2.99E-04	2.94E-04	1.05E-03	pCi/m3	U
2107	664161009	3/19/2024	Cobalt-58	2.91E-04	3.85E-04	1.14E-03	pCi/m3	U
2107	669419011	4/15/2024	Cobalt-58	1.27E-03	5.15E-04	2.02E-03	pCi/m3	U
2107	674392009	5/14/2024	Cobalt-58	1.71E-03	9.47E-04	1.58E-03	pCi/m3	UI
2107	676203009	6/11/2024	Cobalt-58	1.00E-03	4.41E-04	1.71E-03	pCi/m3	U
2107	682054005	7/8/2024	Cobalt-58	1.29E-03	4.28E-04	1.96E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	691730002	8/5/2024	Cobalt-58	1.97E-04	7.35E-04	2.45E-03	pCi/m3	U
2107	691734007	8/27/2024	Cobalt-58	-5.73E-04	4.65E-04	1.42E-03	pCi/m3	U
2107	695577001	9/30/2024	Cobalt-58	-5.06E-05	5.39E-04	1.59E-03	pCi/m3	U
2107	702719004	10/28/2024	Cobalt-58	-7.32E-05	6.63E-04	2.22E-03	pCi/m3	U
2107	703169008	11/26/2024	Cobalt-58	6.36E-04	4.19E-04	1.57E-03	pCi/m3	U
2107	706986010	12/25/2024	Cobalt-58	6.37E-04	3.72E-04	1.44E-03	pCi/m3	U
2107	657104003	1/23/2024	Cobalt-60	-1.73E-04	2.79E-04	8.22E-04	pCi/m3	U
2107	659797009	2/20/2024	Cobalt-60	2.94E-04	2.68E-04	9.82E-04	pCi/m3	U
2107	664161009	3/19/2024	Cobalt-60	8.52E-06	3.37E-04	1.12E-03	pCi/m3	U
2107	669419011	4/15/2024	Cobalt-60	-3.32E-04	4.08E-04	1.19E-03	pCi/m3	U
2107	674392009	5/14/2024	Cobalt-60	-4.98E-04	3.68E-04	1.01E-03	pCi/m3	U
2107	676203009	6/11/2024	Cobalt-60	-1.08E-04	3.44E-04	1.11E-03	pCi/m3	U
2107	682054005	7/8/2024	Cobalt-60	3.64E-04	5.04E-04	1.80E-03	pCi/m3	U
2107	691730002	8/5/2024	Cobalt-60	2.91E-04	4.73E-04	1.71E-03	pCi/m3	U
2107	691734007	8/27/2024	Cobalt-60	-2.19E-04	3.96E-04	1.17E-03	pCi/m3	U
2107	695577001	9/30/2024	Cobalt-60	-3.79E-04	2.93E-04	7.37E-04	pCi/m3	U
2107	702719004	10/28/2024	Cobalt-60	6.44E-04	4.81E-04	1.82E-03	pCi/m3	U
2107	703169008	11/26/2024	Cobalt-60	-4.16E-05	3.78E-04	1.22E-03	pCi/m3	U
2107	706986010	12/25/2024	Cobalt-60	4.62E-05	3.18E-04	1.07E-03	pCi/m3	U
2107	657104003	1/23/2024	Iron-59	-8.37E-04	1.29E-03	2.58E-03	pCi/m3	U
2107	659797009	2/20/2024	Iron-59	6.42E-04	9.31E-04	3.17E-03	pCi/m3	U
2107	664161009	3/19/2024	Iron-59	-1.25E-03	1.25E-03	3.31E-03	pCi/m3	U
2107	669419011	4/15/2024	Iron-59	1.58E-03	1.30E-03	4.44E-03	pCi/m3	U
2107	674392009	5/14/2024	Iron-59	8.40E-04	1.36E-03	4.80E-03	pCi/m3	U
2107	676203009	6/11/2024	Iron-59	3.37E-04	6.31E-04	2.33E-03	pCi/m3	U
2107	682054005	7/8/2024	Iron-59	-3.94E-03	1.70E-03	3.19E-03	pCi/m3	U
2107	691730002	8/5/2024	Iron-59	7.76E-04	2.97E-03	1.04E-02	pCi/m3	U
2107	691734007	8/27/2024	Iron-59	-8.24E-04	1.77E-03	5.49E-03	pCi/m3	U
2107	695577001	9/30/2024	Iron-59	-4.82E-04	1.34E-03	3.96E-03	pCi/m3	U
2107	702719004	10/28/2024	Iron-59	-6.07E-04	1.69E-03	5.20E-03	pCi/m3	U
2107	703169008	11/26/2024	Iron-59	-1.37E-03	1.25E-03	3.66E-03	pCi/m3	U
2107	706986010	12/25/2024	Iron-59	-8.81E-04	1.21E-03	3.68E-03	pCi/m3	U
2107	657104003	1/23/2024	Lanthanum-140	-2.08E-03	3.14E-03	9.18E-03	pCi/m3	U
2107	659797009	2/20/2024	Lanthanum-140	-1.91E-05	1.61E-03	5.26E-03	pCi/m3	U
2107	664161009	3/19/2024	Lanthanum-140	-2.55E-03	2.59E-03	6.87E-03	pCi/m3	U
2107	669419011	4/15/2024	Lanthanum-140	-2.48E-03	6.43E-03	2.04E-02	pCi/m3	U
2107	674392009	5/14/2024	Lanthanum-140	9.38E-03	1.16E-02	4.21E-02	pCi/m3	U
2107	676203009	6/11/2024	Lanthanum-140	1.00E-03	2.98E-03	1.04E-02	pCi/m3	U
2107	682054005	7/8/2024	Lanthanum-140	8.65E-03	1.08E-02	4.01E-02	pCi/m3	U
2107	691730002	8/5/2024	Lanthanum-140	-4.01E-02	3.97E-02	9.14E-02	pCi/m3	U
2107	691734007	8/27/2024	Lanthanum-140	-1.60E-02	1.00E-02	1.99E-02	pCi/m3	U
2107	695577001	9/30/2024	Lanthanum-140	-4.58E-03	6.02E-03	1.26E-02	pCi/m3	U
2107	702719004	10/28/2024	Lanthanum-140	-5.39E-02	2.63E-02	5.49E-02	pCi/m3	U
2107	703169008	11/26/2024	Lanthanum-140	-8.85E-03	4.89E-03	1.09E-02	pCi/m3	U
2107	706986010	12/25/2024	Lanthanum-140	-8.58E-03	4.88E-03	9.98E-03	pCi/m3	U
2107	657104003	1/23/2024	Lead-210	5.26E-02	3.66E-02	6.46E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	659797009	2/20/2024	Lead-210	-2.66E-02	5.75E-02	1.93E-01	pCi/m3	U
2107	664161009	3/19/2024	Lead-210	6.97E-02	1.21E-01	4.23E-01	pCi/m3	U
2107	669419011	4/15/2024	Lead-210	5.13E-05	3.31E-02	1.05E-01	pCi/m3	U
2107	674392009	5/14/2024	Lead-210	-5.64E-02	6.03E-02	1.83E-01	pCi/m3	U
2107	676203009	6/11/2024	Lead-210	-3.08E-03	2.57E-02	7.84E-02	pCi/m3	U
2107	682054005	7/8/2024	Lead-210	2.72E-02	5.65E-03	5.98E-03	pCi/m3	
2107	691730002	8/5/2024	Lead-210	1.23E-01	9.23E-02	3.32E-01	pCi/m3	U
2107	691734007	8/27/2024	Lead-210	8.60E-02	4.83E-02	8.94E-02	pCi/m3	U
2107	695577001	9/30/2024	Lead-210	2.89E-02	5.97E-03	6.60E-03	pCi/m3	
2107	702719004	10/28/2024	Lead-210	3.41E-02	4.67E-03	6.43E-03	pCi/m3	
2107	703169008	11/26/2024	Lead-210	1.33E-01	9.02E-02	3.15E-01	pCi/m3	U
2107	706986010	12/25/2024	Lead-210	3.59E-02	4.60E-03	6.49E-03	pCi/m3	
2107	657104003	1/23/2024	Lead-212	8.02E-04	6.17E-04	1.76E-03	pCi/m3	U
2107	659797009	2/20/2024	Lead-212	1.45E-03	6.50E-04	1.66E-03	pCi/m3	U
2107	664161009	3/19/2024	Lead-212	3.32E-04	4.63E-04	1.66E-03	pCi/m3	U
2107	669419011	4/15/2024	Lead-212	1.39E-03	8.45E-04	1.74E-03	pCi/m3	U
2107	674392009	5/14/2024	Lead-212	2.56E-05	4.56E-04	1.47E-03	pCi/m3	U
2107	676203009	6/11/2024	Lead-212	1.03E-03	7.51E-04	1.81E-03	pCi/m3	U
2107	682054005	7/8/2024	Lead-212	4.66E-04	5.50E-04	1.79E-03	pCi/m3	U
2107	691730002	8/5/2024	Lead-212	1.52E-03	1.17E-03	1.74E-03	pCi/m3	U
2107	691734007	8/27/2024	Lead-212	9.86E-04	6.13E-04	1.76E-03	pCi/m3	U
2107	695577001	9/30/2024	Lead-212	8.45E-04	5.75E-04	1.03E-03	pCi/m3	U
2107	702719004	10/28/2024	Lead-212	7.64E-04	6.75E-04	1.20E-03	pCi/m3	U
2107	703169008	11/26/2024	Lead-212	1.42E-03	7.89E-04	1.81E-03	pCi/m3	U
2107	706986010	12/25/2024	Lead-212	5.07E-04	5.51E-04	9.89E-04	pCi/m3	U
2107	657104003	1/23/2024	Lead-214	4.58E-04	5.34E-04	1.82E-03	pCi/m3	U
2107	659797009	2/20/2024	Lead-214	1.42E-03	7.97E-04	1.52E-03	pCi/m3	U
2107	664161009	3/19/2024	Lead-214	4.31E-05	9.29E-04	2.18E-03	pCi/m3	U
2107	669419011	4/15/2024	Lead-214	2.31E-04	9.86E-04	2.18E-03	pCi/m3	U
2107	674392009	5/14/2024	Lead-214	-9.48E-05	6.02E-04	1.80E-03	pCi/m3	U
2107	676203009	6/11/2024	Lead-214	-1.35E-05	6.41E-04	2.05E-03	pCi/m3	U
2107	682054005	7/8/2024	Lead-214	1.66E-03	1.10E-03	2.02E-03	pCi/m3	U
2107	691730002	8/5/2024	Lead-214	1.88E-03	1.18E-03	3.48E-03	pCi/m3	U
2107	691734007	8/27/2024	Lead-214	1.26E-04	6.51E-04	2.06E-03	pCi/m3	U
2107	695577001	9/30/2024	Lead-214	5.49E-05	8.60E-04	1.56E-03	pCi/m3	U
2107	702719004	10/28/2024	Lead-214	2.03E-03	8.57E-04	2.37E-03	pCi/m3	U
2107	703169008	11/26/2024	Lead-214	2.29E-03	1.29E-03	2.28E-03	pCi/m3	UI
2107	706986010	12/25/2024	Lead-214	2.66E-04	5.10E-04	1.63E-03	pCi/m3	U
2107	657104003	1/23/2024	Manganese-54	-3.46E-05	2.70E-04	8.41E-04	pCi/m3	U
2107	659797009	2/20/2024	Manganese-54	-1.80E-04	2.78E-04	8.33E-04	pCi/m3	U
2107	664161009	3/19/2024	Manganese-54	3.13E-04	3.39E-04	1.09E-03	pCi/m3	U
2107	669419011	4/15/2024	Manganese-54	2.75E-04	3.49E-04	1.24E-03	pCi/m3	U
2107	674392009	5/14/2024	Manganese-54	-4.75E-05	3.65E-04	1.11E-03	pCi/m3	U
2107	676203009	6/11/2024	Manganese-54	1.49E-05	3.56E-04	1.15E-03	pCi/m3	U
2107	682054005	7/8/2024	Manganese-54	1.04E-04	4.00E-04	1.39E-03	pCi/m3	U
2107	691730002	8/5/2024	Manganese-54	-3.65E-04	5.43E-04	1.62E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	691734007	8/27/2024	Manganese-54	3.72E-04	3.13E-04	1.17E-03	pCi/m3	U
2107	695577001	9/30/2024	Manganese-54	-5.32E-04	3.33E-04	8.56E-04	pCi/m3	U
2107	702719004	10/28/2024	Manganese-54	-4.68E-04	4.61E-04	1.41E-03	pCi/m3	U
2107	703169008	11/26/2024	Manganese-54	-6.23E-04	3.18E-04	8.76E-04	pCi/m3	U
2107	706986010	12/25/2024	Manganese-54	-1.27E-04	3.64E-04	9.70E-04	pCi/m3	U
2107	657104003	1/23/2024	Molybdenum-99	5.37E+01	2.09E+01	0.00E+00	pCi/m3	UI
2107	659797009	2/20/2024	Molybdenum-99	-1.30E-01	6.81E+00	0.00E+00	pCi/m3	U
2107	664161009	3/19/2024	Molybdenum-99	-3.23E+01	3.01E+01	0.00E+00	pCi/m3	U
2107	669419011	4/15/2024	Molybdenum-99	4.89E+02	1.29E+03	0.00E+00	pCi/m3	UI
2107	674392009	5/14/2024	Molybdenum-99	-1.31E+04	1.07E+04	0.00E+00	pCi/m3	U
2107	676203009	6/11/2024	Molybdenum-99	-1.73E+02	1.34E+02	0.00E+00	pCi/m3	U
2107	682054005	7/8/2024	Molybdenum-99	1.18E+03	1.81E+03	0.00E+00	pCi/m3	UI
2107	691730002	8/5/2024	Molybdenum-99	-3.77E+06	1.34E+07	0.00E+00	pCi/m3	U
2107	691734007	8/27/2024	Molybdenum-99	-1.78E+04	3.56E+04	0.00E+00	pCi/m3	U
2107	695577001	9/30/2024	Molybdenum-99	-1.68E+03	1.19E+03	0.00E+00	pCi/m3	U
2107	702719004	10/28/2024	Molybdenum-99	1.10E+05	2.53E+05	0.00E+00	pCi/m3	UI
2107	703169008	11/26/2024	Molybdenum-99	6.93E+02	4.76E+02	0.00E+00	pCi/m3	UI
2107	706986010	12/25/2024	Molybdenum-99	-2.09E+02	2.52E+02	0.00E+00	pCi/m3	U
2107	657104003	1/23/2024	Niobium-95	-5.47E-04	4.04E-04	1.10E-03	pCi/m3	U
2107	659797009	2/20/2024	Niobium-95	-1.89E-04	3.30E-04	1.07E-03	pCi/m3	U
2107	664161009	3/19/2024	Niobium-95	1.43E-04	4.10E-04	1.39E-03	pCi/m3	U
2107	669419011	4/15/2024	Niobium-95	1.40E-04	4.58E-04	1.59E-03	pCi/m3	U
2107	674392009	5/14/2024	Niobium-95	5.45E-04	4.60E-04	1.68E-03	pCi/m3	U
2107	676203009	6/11/2024	Niobium-95	7.03E-04	6.84E-04	1.51E-03	pCi/m3	U
2107	682054005	7/8/2024	Niobium-95	7.06E-05	6.12E-04	2.10E-03	pCi/m3	U
2107	691730002	8/5/2024	Niobium-95	-7.15E-04	1.03E-03	3.10E-03	pCi/m3	U
2107	691734007	8/27/2024	Niobium-95	6.32E-04	5.00E-04	1.89E-03	pCi/m3	U
2107	695577001	9/30/2024	Niobium-95	-5.81E-04	5.68E-04	1.45E-03	pCi/m3	U
2107	702719004	10/28/2024	Niobium-95	-8.50E-04	6.92E-04	1.64E-03	pCi/m3	U
2107	703169008	11/26/2024	Niobium-95	1.68E-04	5.12E-04	1.64E-03	pCi/m3	U
2107	706986010	12/25/2024	Niobium-95	8.50E-04	4.35E-04	1.68E-03	pCi/m3	U
2107	657104003	1/23/2024	Potassium-40	5.20E-03	7.40E-03	9.31E-03	pCi/m3	U
2107	659797009	2/20/2024	Potassium-40	1.70E-02	7.55E-03	9.46E-03	pCi/m3	UI
2107	664161009	3/19/2024	Potassium-40	7.28E-03	6.69E-03	1.06E-02	pCi/m3	U
2107	669419011	4/15/2024	Potassium-40	4.99E-03	6.96E-03	1.08E-02	pCi/m3	U
2107	674392009	5/14/2024	Potassium-40	1.01E-02	4.78E-03	1.97E-02	pCi/m3	U
2107	676203009	6/11/2024	Potassium-40	1.67E-02	5.34E-03	7.01E-03	pCi/m3	UI
2107	682054005	7/8/2024	Potassium-40	3.95E-03	5.74E-03	2.09E-02	pCi/m3	U
2107	691730002	8/5/2024	Potassium-40	1.27E-02	8.49E-03	1.40E-02	pCi/m3	U
2107	691734007	8/27/2024	Potassium-40	7.64E-03	5.39E-03	2.15E-02	pCi/m3	U
2107	695577001	9/30/2024	Potassium-40	1.10E-02	8.06E-03	1.58E-02	pCi/m3	U
2107	702719004	10/28/2024	Potassium-40	1.40E-02	4.86E-03	2.13E-02	pCi/m3	U
2107	703169008	11/26/2024	Potassium-40	2.05E-03	4.63E-03	1.74E-02	pCi/m3	U
2107	706986010	12/25/2024	Potassium-40	-4.62E-04	4.53E-03	1.54E-02	pCi/m3	U
2107	657104003	1/23/2024	Radium-226	4.58E-04	5.34E-04	1.82E-03	pCi/m3	U
2107	659797009	2/20/2024	Radium-226	1.42E-03	7.97E-04	1.52E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	664161009	3/19/2024	Radium-226	4.31E-05	9.29E-04	2.18E-03	pCi/m3	U
2107	669419011	4/15/2024	Radium-226	2.31E-04	9.86E-04	2.18E-03	pCi/m3	U
2107	674392009	5/14/2024	Radium-226	-9.48E-05	6.02E-04	1.80E-03	pCi/m3	U
2107	676203009	6/11/2024	Radium-226	-1.35E-05	6.41E-04	2.05E-03	pCi/m3	U
2107	682054005	7/8/2024	Radium-226	1.66E-03	1.10E-03	2.02E-03	pCi/m3	U
2107	691730002	8/5/2024	Radium-226	1.88E-03	1.18E-03	3.48E-03	pCi/m3	U
2107	691734007	8/27/2024	Radium-226	1.26E-04	6.51E-04	2.06E-03	pCi/m3	U
2107	695577001	9/30/2024	Radium-226	5.49E-05	8.60E-04	1.56E-03	pCi/m3	U
2107	702719004	10/28/2024	Radium-226	2.03E-03	8.57E-04	2.37E-03	pCi/m3	U
2107	703169008	11/26/2024	Radium-226	2.29E-03	1.29E-03	2.28E-03	pCi/m3	UI
2107	706986010	12/25/2024	Radium-226	2.66E-04	5.10E-04	1.63E-03	pCi/m3	U
2107	657104003	1/23/2024	Radium-228	1.88E-03	1.01E-03	4.01E-03	pCi/m3	U
2107	659797009	2/20/2024	Radium-228	5.16E-03	1.63E-03	4.12E-03	pCi/m3	UI
2107	664161009	3/19/2024	Radium-228	2.17E-03	1.30E-03	4.82E-03	pCi/m3	U
2107	669419011	4/15/2024	Radium-228	8.80E-04	1.76E-03	5.86E-03	pCi/m3	U
2107	674392009	5/14/2024	Radium-228	9.41E-04	1.65E-03	4.54E-03	pCi/m3	U
2107	676203009	6/11/2024	Radium-228	1.25E-03	1.57E-03	5.40E-03	pCi/m3	U
2107	682054005	7/8/2024	Radium-228	3.42E-03	1.81E-03	7.08E-03	pCi/m3	U
2107	691730002	8/5/2024	Radium-228	1.09E-03	4.26E-03	7.19E-03	pCi/m3	U
2107	691734007	8/27/2024	Radium-228	7.62E-04	1.58E-03	4.68E-03	pCi/m3	U
2107	695577001	9/30/2024	Radium-228	1.45E-04	1.60E-03	4.96E-03	pCi/m3	U
2107	702719004	10/28/2024	Radium-228	2.44E-03	1.62E-03	5.93E-03	pCi/m3	U
2107	703169008	11/26/2024	Radium-228	8.85E-04	1.39E-03	4.48E-03	pCi/m3	U
2107	706986010	12/25/2024	Radium-228	4.54E-04	1.46E-03	5.05E-03	pCi/m3	U
2107	657104003	1/23/2024	Ruthenium-103	-2.52E-04	3.68E-04	1.13E-03	pCi/m3	U
2107	659797009	2/20/2024	Ruthenium-103	-1.69E-05	3.44E-04	1.14E-03	pCi/m3	U
2107	664161009	3/19/2024	Ruthenium-103	4.85E-06	5.39E-04	1.53E-03	pCi/m3	U
2107	669419011	4/15/2024	Ruthenium-103	4.06E-04	6.66E-04	2.27E-03	pCi/m3	U
2107	674392009	5/14/2024	Ruthenium-103	-4.85E-04	5.65E-04	1.76E-03	pCi/m3	U
2107	676203009	6/11/2024	Ruthenium-103	-2.80E-04	5.70E-04	1.85E-03	pCi/m3	U
2107	682054005	7/8/2024	Ruthenium-103	3.49E-04	5.88E-04	2.06E-03	pCi/m3	U
2107	691730002	8/5/2024	Ruthenium-103	-2.27E-04	1.60E-03	5.28E-03	pCi/m3	U
2107	691734007	8/27/2024	Ruthenium-103	-9.95E-05	7.01E-04	2.26E-03	pCi/m3	U
2107	695577001	9/30/2024	Ruthenium-103	1.69E-03	8.94E-04	1.72E-03	pCi/m3	U
2107	702719004	10/28/2024	Ruthenium-103	6.49E-04	8.03E-04	2.85E-03	pCi/m3	U
2107	703169008	11/26/2024	Ruthenium-103	-1.02E-04	5.24E-04	1.65E-03	pCi/m3	U
2107	706986010	12/25/2024	Ruthenium-103	3.20E-04	4.79E-04	1.62E-03	pCi/m3	U
2107	657104003	1/23/2024	Ruthenium-106	-1.86E-03	2.50E-03	7.53E-03	pCi/m3	U
2107	659797009	2/20/2024	Ruthenium-106	-4.51E-03	2.49E-03	7.21E-03	pCi/m3	U
2107	664161009	3/19/2024	Ruthenium-106	-2.64E-03	2.33E-03	7.09E-03	pCi/m3	U
2107	669419011	4/15/2024	Ruthenium-106	2.90E-04	2.59E-03	8.40E-03	pCi/m3	U
2107	674392009	5/14/2024	Ruthenium-106	-3.29E-03	2.30E-03	6.40E-03	pCi/m3	U
2107	676203009	6/11/2024	Ruthenium-106	-3.82E-04	3.03E-03	8.37E-03	pCi/m3	U
2107	682054005	7/8/2024	Ruthenium-106	2.53E-03	3.97E-03	1.35E-02	pCi/m3	U
2107	691730002	8/5/2024	Ruthenium-106	4.01E-03	4.43E-03	1.50E-02	pCi/m3	U
2107	691734007	8/27/2024	Ruthenium-106	-4.98E-07	2.48E-03	7.97E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	695577001	9/30/2024	Ruthenium-106	-1.00E-03	2.44E-03	7.66E-03	pCi/m3	U
2107	702719004	10/28/2024	Ruthenium-106	-4.09E-03	3.21E-03	8.86E-03	pCi/m3	U
2107	703169008	11/26/2024	Ruthenium-106	-2.58E-03	2.86E-03	7.94E-03	pCi/m3	U
2107	706986010	12/25/2024	Ruthenium-106	-2.30E-03	2.90E-03	8.80E-03	pCi/m3	U
2107	657104003	1/23/2024	Selenium-75	2.03E-04	2.95E-04	1.05E-03	pCi/m3	U
2107	659797009	2/20/2024	Selenium-75	5.89E-04	3.04E-04	1.01E-03	pCi/m3	U
2107	664161009	3/19/2024	Selenium-75	-1.54E-04	3.25E-04	1.03E-03	pCi/m3	U
2107	669419011	4/15/2024	Selenium-75	8.28E-05	3.98E-04	1.26E-03	pCi/m3	U
2107	674392009	5/14/2024	Selenium-75	1.63E-04	3.14E-04	1.09E-03	pCi/m3	U
2107	676203009	6/11/2024	Selenium-75	7.12E-04	5.97E-04	1.45E-03	pCi/m3	U
2107	682054005	7/8/2024	Selenium-75	6.69E-04	4.03E-04	1.42E-03	pCi/m3	U
2107	691730002	8/5/2024	Selenium-75	1.14E-03	7.66E-04	2.61E-03	pCi/m3	U
2107	691734007	8/27/2024	Selenium-75	2.27E-04	4.02E-04	1.42E-03	pCi/m3	U
2107	695577001	9/30/2024	Selenium-75	-4.44E-04	3.40E-04	9.68E-04	pCi/m3	U
2107	702719004	10/28/2024	Selenium-75	-2.76E-04	4.21E-04	1.25E-03	pCi/m3	U
2107	703169008	11/26/2024	Selenium-75	1.72E-04	3.93E-04	1.31E-03	pCi/m3	U
2107	706986010	12/25/2024	Selenium-75	-2.79E-05	3.10E-04	9.70E-04	pCi/m3	U
2107	657104003	1/23/2024	Silver-108m	1.57E-04	2.05E-04	7.18E-04	pCi/m3	U
2107	659797009	2/20/2024	Silver-108m	1.16E-04	1.90E-04	6.61E-04	pCi/m3	U
2107	664161009	3/19/2024	Silver-108m	-2.52E-05	2.02E-04	6.45E-04	pCi/m3	U
2107	669419011	4/15/2024	Silver-108m	-4.10E-06	2.05E-04	6.80E-04	pCi/m3	U
2107	674392009	5/14/2024	Silver-108m	1.65E-04	1.81E-04	6.25E-04	pCi/m3	U
2107	676203009	6/11/2024	Silver-108m	-3.16E-04	2.91E-04	8.19E-04	pCi/m3	U
2107	682054005	7/8/2024	Silver-108m	1.59E-04	2.30E-04	8.15E-04	pCi/m3	U
2107	691730002	8/5/2024	Silver-108m	2.61E-04	3.45E-04	1.22E-03	pCi/m3	U
2107	691734007	8/27/2024	Silver-108m	7.99E-05	1.91E-04	6.56E-04	pCi/m3	U
2107	695577001	9/30/2024	Silver-108m	-2.75E-04	2.09E-04	6.37E-04	pCi/m3	U
2107	702719004	10/28/2024	Silver-108m	-1.69E-04	1.96E-04	5.98E-04	pCi/m3	U
2107	703169008	11/26/2024	Silver-108m	-1.50E-04	2.24E-04	6.85E-04	pCi/m3	U
2107	706986010	12/25/2024	Silver-108m	5.73E-05	2.09E-04	7.17E-04	pCi/m3	U
2107	657104003	1/23/2024	Silver-110m	-1.44E-04	3.51E-04	1.14E-03	pCi/m3	U
2107	659797009	2/20/2024	Silver-110m	2.90E-04	3.76E-04	1.32E-03	pCi/m3	U
2107	664161009	3/19/2024	Silver-110m	-4.45E-04	4.23E-04	1.22E-03	pCi/m3	U
2107	669419011	4/15/2024	Silver-110m	6.74E-04	4.34E-04	1.65E-03	pCi/m3	U
2107	674392009	5/14/2024	Silver-110m	5.22E-04	4.73E-04	1.75E-03	pCi/m3	U
2107	676203009	6/11/2024	Silver-110m	-3.22E-04	4.93E-04	1.48E-03	pCi/m3	U
2107	682054005	7/8/2024	Silver-110m	2.08E-04	5.17E-04	1.82E-03	pCi/m3	U
2107	691730002	8/5/2024	Silver-110m	-5.58E-04	6.10E-04	1.68E-03	pCi/m3	U
2107	691734007	8/27/2024	Silver-110m	-7.11E-04	5.05E-04	1.44E-03	pCi/m3	U
2107	695577001	9/30/2024	Silver-110m	-7.14E-04	4.88E-04	1.44E-03	pCi/m3	U
2107	702719004	10/28/2024	Silver-110m	-1.93E-05	5.56E-04	1.81E-03	pCi/m3	U
2107	703169008	11/26/2024	Silver-110m	3.17E-04	3.69E-04	1.33E-03	pCi/m3	U
2107	706986010	12/25/2024	Silver-110m	2.39E-04	3.45E-04	1.27E-03	pCi/m3	U
2107	657104003	1/23/2024	Tellurium-132	6.31E-01	5.89E-01	0.00E+00	pCi/m3	UI
2107	659797009	2/20/2024	Tellurium-132	6.05E-03	1.69E-01	0.00E+00	pCi/m3	UI
2107	664161009	3/19/2024	Tellurium-132	5.76E-01	4.65E-01	0.00E+00	pCi/m3	UI

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	669419011	4/15/2024	Tellurium-132	-2.56E+00	1.92E+01	0.00E+00	pCi/m3	U
2107	674392009	5/14/2024	Tellurium-132	-7.54E+01	8.24E+01	0.00E+00	pCi/m3	U
2107	676203009	6/11/2024	Tellurium-132	-6.94E-01	2.63E+00	0.00E+00	pCi/m3	U
2107	682054005	7/8/2024	Tellurium-132	-1.60E+01	2.37E+01	0.00E+00	pCi/m3	U
2107	691730002	8/5/2024	Tellurium-132	1.41E+05	5.43E+04	0.00E+00	pCi/m3	UI
2107	691734007	8/27/2024	Tellurium-132	-1.78E+01	3.05E+02	0.00E+00	pCi/m3	U
2107	695577001	9/30/2024	Tellurium-132	-1.24E+01	1.23E+01	0.00E+00	pCi/m3	U
2107	702719004	10/28/2024	Tellurium-132	-1.05E+03	1.32E+03	0.00E+00	pCi/m3	U
2107	703169008	11/26/2024	Tellurium-132	5.11E+00	7.54E+00	0.00E+00	pCi/m3	UI
2107	706986010	12/25/2024	Tellurium-132	-7.16E+00	4.11E+00	0.00E+00	pCi/m3	U
2107	657104003	1/23/2024	Thallium-208	-7.13E-04	3.42E-04	1.07E-03	pCi/m3	U
2107	659797009	2/20/2024	Thallium-208	5.78E-04	4.23E-04	7.51E-04	pCi/m3	U
2107	664161009	3/19/2024	Thallium-208	6.78E-05	2.70E-04	8.91E-04	pCi/m3	U
2107	669419011	4/15/2024	Thallium-208	4.08E-04	3.93E-04	1.37E-03	pCi/m3	U
2107	674392009	5/14/2024	Thallium-208	2.72E-04	3.10E-04	1.10E-03	pCi/m3	U
2107	676203009	6/11/2024	Thallium-208	-1.02E-04	3.63E-04	1.17E-03	pCi/m3	U
2107	682054005	7/8/2024	Thallium-208	-4.44E-04	4.06E-04	1.18E-03	pCi/m3	U
2107	691730002	8/5/2024	Thallium-208	3.18E-04	5.25E-04	1.89E-03	pCi/m3	U
2107	691734007	8/27/2024	Thallium-208	-1.04E-04	3.78E-04	1.15E-03	pCi/m3	U
2107	695577001	9/30/2024	Thallium-208	9.16E-04	4.47E-04	8.10E-04	pCi/m3	UI
2107	702719004	10/28/2024	Thallium-208	-6.45E-05	3.76E-04	1.13E-03	pCi/m3	U
2107	703169008	11/26/2024	Thallium-208	6.78E-04	4.54E-04	7.86E-04	pCi/m3	U
2107	706986010	12/25/2024	Thallium-208	9.22E-04	5.58E-04	8.32E-04	pCi/m3	UI
2107	657104003	1/23/2024	Thorium-228	8.02E-04	6.17E-04	1.76E-03	pCi/m3	U
2107	659797009	2/20/2024	Thorium-228	1.45E-03	6.50E-04	1.66E-03	pCi/m3	U
2107	664161009	3/19/2024	Thorium-228	3.32E-04	4.63E-04	1.66E-03	pCi/m3	U
2107	669419011	4/15/2024	Thorium-228	1.39E-03	8.45E-04	1.74E-03	pCi/m3	U
2107	674392009	5/14/2024	Thorium-228	2.56E-05	4.56E-04	1.47E-03	pCi/m3	U
2107	676203009	6/11/2024	Thorium-228	1.03E-03	7.51E-04	1.81E-03	pCi/m3	U
2107	682054005	7/8/2024	Thorium-228	4.66E-04	5.50E-04	1.79E-03	pCi/m3	U
2107	691730002	8/5/2024	Thorium-228	1.52E-03	1.17E-03	1.74E-03	pCi/m3	U
2107	691734007	8/27/2024	Thorium-228	9.86E-04	6.13E-04	1.76E-03	pCi/m3	U
2107	695577001	9/30/2024	Thorium-228	8.45E-04	5.75E-04	1.03E-03	pCi/m3	U
2107	702719004	10/28/2024	Thorium-228	7.64E-04	6.75E-04	1.20E-03	pCi/m3	U
2107	703169008	11/26/2024	Thorium-228	1.42E-03	7.89E-04	1.81E-03	pCi/m3	U
2107	706986010	12/25/2024	Thorium-228	5.07E-04	5.51E-04	9.89E-04	pCi/m3	U
2107	657104003	1/23/2024	Thorium-230	4.58E-04	5.34E-04	1.82E-03	pCi/m3	U
2107	659797009	2/20/2024	Thorium-230	1.42E-03	7.97E-04	1.52E-03	pCi/m3	U
2107	664161009	3/19/2024	Thorium-230	4.31E-05	9.29E-04	2.18E-03	pCi/m3	U
2107	669419011	4/15/2024	Thorium-230	2.31E-04	9.86E-04	2.18E-03	pCi/m3	U
2107	674392009	5/14/2024	Thorium-230	-9.48E-05	6.02E-04	1.80E-03	pCi/m3	U
2107	676203009	6/11/2024	Thorium-230	-1.35E-05	6.41E-04	2.05E-03	pCi/m3	U
2107	682054005	7/8/2024	Thorium-230	1.66E-03	1.10E-03	2.02E-03	pCi/m3	U
2107	691730002	8/5/2024	Thorium-230	1.88E-03	1.18E-03	3.48E-03	pCi/m3	U
2107	691734007	8/27/2024	Thorium-230	1.26E-04	6.51E-04	2.06E-03	pCi/m3	U
2107	695577001	9/30/2024	Thorium-230	5.49E-05	8.60E-04	1.56E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	702719004	10/28/2024	Thorium-230	2.03E-03	8.57E-04	2.37E-03	pCi/m3	U
2107	703169008	11/26/2024	Thorium-230	2.29E-03	1.29E-03	2.28E-03	pCi/m3	UI
2107	706986010	12/25/2024	Thorium-230	2.66E-04	5.10E-04	1.63E-03	pCi/m3	U
2107	657104003	1/23/2024	Thorium-232	1.88E-03	1.01E-03	4.01E-03	pCi/m3	U
2107	659797009	2/20/2024	Thorium-232	5.16E-03	1.63E-03	4.12E-03	pCi/m3	UI
2107	664161009	3/19/2024	Thorium-232	2.17E-03	1.30E-03	4.82E-03	pCi/m3	U
2107	669419011	4/15/2024	Thorium-232	8.80E-04	1.76E-03	5.86E-03	pCi/m3	U
2107	674392009	5/14/2024	Thorium-232	9.41E-04	1.65E-03	4.54E-03	pCi/m3	U
2107	676203009	6/11/2024	Thorium-232	1.25E-03	1.57E-03	5.40E-03	pCi/m3	U
2107	682054005	7/8/2024	Thorium-232	3.42E-03	1.81E-03	7.08E-03	pCi/m3	U
2107	691730002	8/5/2024	Thorium-232	1.09E-03	4.26E-03	7.19E-03	pCi/m3	U
2107	691734007	8/27/2024	Thorium-232	7.62E-04	1.58E-03	4.68E-03	pCi/m3	U
2107	695577001	9/30/2024	Thorium-232	1.45E-04	1.60E-03	4.96E-03	pCi/m3	U
2107	702719004	10/28/2024	Thorium-232	2.44E-03	1.62E-03	5.93E-03	pCi/m3	U
2107	703169008	11/26/2024	Thorium-232	8.85E-04	1.39E-03	4.48E-03	pCi/m3	U
2107	706986010	12/25/2024	Thorium-232	4.54E-04	1.46E-03	5.05E-03	pCi/m3	U
2107	657104003	1/23/2024	Thorium-234	4.04E-03	8.97E-03	1.90E-02	pCi/m3	U
2107	659797009	2/20/2024	Thorium-234	-2.13E-02	1.29E-02	3.65E-02	pCi/m3	U
2107	664161009	3/19/2024	Thorium-234	1.40E-02	1.65E-02	5.46E-02	pCi/m3	U
2107	669419011	4/15/2024	Thorium-234	-1.33E-02	1.00E-02	3.19E-02	pCi/m3	U
2107	674392009	5/14/2024	Thorium-234	-6.94E-03	1.17E-02	3.74E-02	pCi/m3	U
2107	676203009	6/11/2024	Thorium-234	5.30E-03	1.43E-02	2.40E-02	pCi/m3	U
2107	682054005	7/8/2024	Thorium-234	-6.19E-03	3.70E-03	1.19E-02	pCi/m3	U
2107	691730002	8/5/2024	Thorium-234	1.48E-02	1.97E-02	6.48E-02	pCi/m3	U
2107	691734007	8/27/2024	Thorium-234	-5.97E-03	8.67E-03	2.83E-02	pCi/m3	U
2107	695577001	9/30/2024	Thorium-234	8.10E-04	6.00E-03	1.55E-02	pCi/m3	U
2107	702719004	10/28/2024	Thorium-234	4.83E-03	2.94E-03	5.52E-03	pCi/m3	U
2107	703169008	11/26/2024	Thorium-234	7.09E-04	1.57E-02	5.20E-02	pCi/m3	U
2107	706986010	12/25/2024	Thorium-234	-7.37E-03	3.85E-03	1.50E-02	pCi/m3	U
2107	657104003	1/23/2024	Uranium-234	4.58E-04	5.34E-04	1.82E-03	pCi/m3	U
2107	659797009	2/20/2024	Uranium-234	1.42E-03	7.97E-04	1.52E-03	pCi/m3	U
2107	664161009	3/19/2024	Uranium-234	4.31E-05	9.29E-04	2.18E-03	pCi/m3	U
2107	669419011	4/15/2024	Uranium-234	2.31E-04	9.86E-04	2.18E-03	pCi/m3	U
2107	674392009	5/14/2024	Uranium-234	-9.48E-05	6.02E-04	1.80E-03	pCi/m3	U
2107	676203009	6/11/2024	Uranium-234	-1.35E-05	6.41E-04	2.05E-03	pCi/m3	U
2107	682054005	7/8/2024	Uranium-234	1.66E-03	1.10E-03	2.02E-03	pCi/m3	U
2107	691730002	8/5/2024	Uranium-234	1.88E-03	1.18E-03	3.48E-03	pCi/m3	U
2107	691734007	8/27/2024	Uranium-234	1.26E-04	6.51E-04	2.06E-03	pCi/m3	U
2107	695577001	9/30/2024	Uranium-234	5.49E-05	8.60E-04	1.56E-03	pCi/m3	U
2107	702719004	10/28/2024	Uranium-234	2.03E-03	8.57E-04	2.37E-03	pCi/m3	U
2107	703169008	11/26/2024	Uranium-234	2.29E-03	1.29E-03	2.28E-03	pCi/m3	UI
2107	706986010	12/25/2024	Uranium-234	2.66E-04	5.10E-04	1.63E-03	pCi/m3	U
2107	657104003	1/23/2024	Zinc-65	-7.78E-04	5.87E-04	1.59E-03	pCi/m3	U
2107	659797009	2/20/2024	Zinc-65	7.35E-04	6.90E-04	2.41E-03	pCi/m3	U
2107	664161009	3/19/2024	Zinc-65	-7.23E-04	8.13E-04	2.50E-03	pCi/m3	U
2107	669419011	4/15/2024	Zinc-65	-1.75E-04	8.63E-04	2.77E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	674392009	5/14/2024	Zinc-65	-4.26E-04	7.48E-04	2.26E-03	pCi/m3	U
2107	676203009	6/11/2024	Zinc-65	-4.34E-04	6.47E-04	2.02E-03	pCi/m3	U
2107	682054005	7/8/2024	Zinc-65	2.26E-04	8.47E-04	2.60E-03	pCi/m3	U
2107	691730002	8/5/2024	Zinc-65	-5.29E-04	1.66E-03	4.76E-03	pCi/m3	U
2107	691734007	8/27/2024	Zinc-65	-6.66E-04	8.84E-04	2.64E-03	pCi/m3	U
2107	695577001	9/30/2024	Zinc-65	-3.42E-04	7.43E-04	2.34E-03	pCi/m3	U
2107	702719004	10/28/2024	Zinc-65	2.21E-04	1.16E-03	3.88E-03	pCi/m3	U
2107	703169008	11/26/2024	Zinc-65	1.71E-04	7.19E-04	2.13E-03	pCi/m3	U
2107	706986010	12/25/2024	Zinc-65	-5.02E-04	8.37E-04	2.61E-03	pCi/m3	U
2107	657104003	1/23/2024	Zirconium-95	-7.58E-04	6.31E-04	1.71E-03	pCi/m3	U
2107	659797009	2/20/2024	Zirconium-95	-4.56E-04	5.40E-04	1.72E-03	pCi/m3	U
2107	664161009	3/19/2024	Zirconium-95	-1.33E-04	6.82E-04	2.21E-03	pCi/m3	U
2107	669419011	4/15/2024	Zirconium-95	-8.13E-04	7.74E-04	2.38E-03	pCi/m3	U
2107	674392009	5/14/2024	Zirconium-95	1.22E-03	9.77E-04	3.52E-03	pCi/m3	U
2107	676203009	6/11/2024	Zirconium-95	1.74E-04	9.50E-04	3.13E-03	pCi/m3	U
2107	682054005	7/8/2024	Zirconium-95	9.61E-04	9.45E-04	3.58E-03	pCi/m3	U
2107	691730002	8/5/2024	Zirconium-95	1.97E-03	1.64E-03	5.99E-03	pCi/m3	U
2107	691734007	8/27/2024	Zirconium-95	-3.43E-04	1.01E-03	2.86E-03	pCi/m3	U
2107	695577001	9/30/2024	Zirconium-95	-1.77E-03	9.70E-04	2.53E-03	pCi/m3	U
2107	702719004	10/28/2024	Zirconium-95	2.30E-03	1.33E-03	4.36E-03	pCi/m3	U
2107	703169008	11/26/2024	Zirconium-95	1.07E-03	7.17E-04	2.70E-03	pCi/m3	U
2107	706986010	12/25/2024	Zirconium-95	3.13E-04	7.38E-04	2.49E-03	pCi/m3	U
2112	657104004	1/24/2024	Actinium-228	7.99E-04	1.92E-03	4.31E-03	pCi/m3	U
2112	659797010	2/20/2024	Actinium-228	-8.70E-04	1.77E-03	5.40E-03	pCi/m3	U
2112	664161006	3/19/2024	Actinium-228	9.80E-04	1.85E-03	4.40E-03	pCi/m3	U
2112	669419008	4/16/2024	Actinium-228	1.28E-03	1.39E-03	3.89E-03	pCi/m3	U
2112	674392010	5/13/2024	Actinium-228	1.47E-03	2.48E-03	6.83E-03	pCi/m3	U
2112	676203010	6/11/2024	Actinium-228	1.84E-03	1.48E-03	5.37E-03	pCi/m3	U
2112	682054003	7/8/2024	Actinium-228	1.61E-03	1.44E-03	5.02E-03	pCi/m3	U
2112	691730007	8/6/2024	Actinium-228	1.20E-03	1.75E-03	5.09E-03	pCi/m3	U
2112	691734001	8/27/2024	Actinium-228	-3.50E-05	8.39E-04	2.79E-03	pCi/m3	U
2112	695577010	10/1/2024	Actinium-228	3.20E-03	1.64E-03	4.07E-03	pCi/m3	U
2112	702719007	10/28/2024	Actinium-228	3.58E-04	1.64E-03	5.27E-03	pCi/m3	U
2112	703169005	11/25/2024	Actinium-228	2.98E-03	1.75E-03	5.80E-03	pCi/m3	U
2112	706986005	12/24/2024	Actinium-228	6.35E-04	1.20E-03	4.01E-03	pCi/m3	U
2112	657104004	1/24/2024	Americium-241	9.27E-04	1.34E-03	4.62E-03	pCi/m3	U
2112	659797010	2/20/2024	Americium-241	-1.85E-04	9.57E-04	2.94E-03	pCi/m3	U
2112	664161006	3/19/2024	Americium-241	4.97E-04	7.51E-04	2.55E-03	pCi/m3	U
2112	669419008	4/16/2024	Americium-241	-8.18E-04	8.59E-04	2.54E-03	pCi/m3	U
2112	674392010	5/13/2024	Americium-241	2.42E-03	2.46E-03	4.10E-03	pCi/m3	U
2112	676203010	6/11/2024	Americium-241	-6.47E-05	1.81E-04	6.13E-04	pCi/m3	U
2112	682054003	7/8/2024	Americium-241	1.87E-03	1.56E-03	5.47E-03	pCi/m3	U
2112	691730007	8/6/2024	Americium-241	-1.74E-04	4.38E-04	1.43E-03	pCi/m3	U
2112	691734001	8/27/2024	Americium-241	3.34E-04	4.09E-04	1.31E-03	pCi/m3	U
2112	695577010	10/1/2024	Americium-241	-2.77E-04	3.82E-04	1.13E-03	pCi/m3	U
2112	702719007	10/28/2024	Americium-241	2.44E-04	7.78E-04	2.66E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	703169005	11/25/2024	Americium-241	1.25E-03	1.05E-03	3.71E-03	pCi/m3	U
2112	706986005	12/24/2024	Americium-241	4.67E-04	5.35E-04	1.72E-03	pCi/m3	U
2112	657104004	1/24/2024	Antimony-124	1.41E-03	6.13E-04	2.67E-03	pCi/m3	U
2112	659797010	2/20/2024	Antimony-124	-3.19E-04	1.02E-03	3.17E-03	pCi/m3	U
2112	664161006	3/19/2024	Antimony-124	-4.55E-04	7.08E-04	2.00E-03	pCi/m3	U
2112	669419008	4/16/2024	Antimony-124	3.11E-04	1.12E-03	3.94E-03	pCi/m3	U
2112	674392010	5/13/2024	Antimony-124	8.67E-04	1.57E-03	5.70E-03	pCi/m3	U
2112	676203010	6/11/2024	Antimony-124	-3.84E-03	1.66E-03	2.67E-03	pCi/m3	U
2112	682054003	7/8/2024	Antimony-124	-2.37E-04	9.46E-04	2.95E-03	pCi/m3	U
2112	691730007	8/6/2024	Antimony-124	-3.79E-03	1.69E-03	3.41E-03	pCi/m3	U
2112	691734001	8/27/2024	Antimony-124	-7.99E-04	9.71E-04	2.62E-03	pCi/m3	U
2112	695577010	10/1/2024	Antimony-124	-5.28E-04	8.89E-04	2.69E-03	pCi/m3	U
2112	702719007	10/28/2024	Antimony-124	4.16E-04	1.58E-03	5.35E-03	pCi/m3	U
2112	703169005	11/25/2024	Antimony-124	-9.84E-04	1.38E-03	3.91E-03	pCi/m3	U
2112	706986005	12/24/2024	Antimony-124	-7.32E-04	8.04E-04	2.04E-03	pCi/m3	U
2112	657104004	1/24/2024	Antimony-125	-8.32E-05	5.42E-04	1.82E-03	pCi/m3	U
2112	659797010	2/20/2024	Antimony-125	-6.90E-04	7.13E-04	2.25E-03	pCi/m3	U
2112	664161006	3/19/2024	Antimony-125	-1.42E-04	5.59E-04	1.83E-03	pCi/m3	U
2112	669419008	4/16/2024	Antimony-125	-1.40E-04	6.36E-04	2.08E-03	pCi/m3	U
2112	674392010	5/13/2024	Antimony-125	-4.65E-04	7.71E-04	2.43E-03	pCi/m3	U
2112	676203010	6/11/2024	Antimony-125	-5.61E-04	8.58E-04	2.73E-03	pCi/m3	U
2112	682054003	7/8/2024	Antimony-125	3.59E-04	6.29E-04	2.16E-03	pCi/m3	U
2112	691730007	8/6/2024	Antimony-125	1.79E-05	6.38E-04	2.11E-03	pCi/m3	U
2112	691734001	8/27/2024	Antimony-125	1.18E-03	7.84E-04	1.43E-03	pCi/m3	U
2112	695577010	10/1/2024	Antimony-125	-9.65E-04	6.05E-04	1.80E-03	pCi/m3	U
2112	702719007	10/28/2024	Antimony-125	1.91E-03	1.19E-03	2.56E-03	pCi/m3	U
2112	703169005	11/25/2024	Antimony-125	9.01E-05	6.53E-04	2.19E-03	pCi/m3	U
2112	706986005	12/24/2024	Antimony-125	-4.91E-04	4.60E-04	1.38E-03	pCi/m3	U
2112	657104004	1/24/2024	Barium-140	3.78E-03	5.36E-03	1.85E-02	pCi/m3	U
2112	659797010	2/20/2024	Barium-140	8.96E-03	5.53E-03	2.05E-02	pCi/m3	U
2112	664161006	3/19/2024	Barium-140	3.06E-03	5.55E-03	1.91E-02	pCi/m3	U
2112	669419008	4/16/2024	Barium-140	-1.22E-02	1.42E-02	4.26E-02	pCi/m3	U
2112	674392010	5/13/2024	Barium-140	3.11E-03	3.44E-02	1.13E-01	pCi/m3	U
2112	676203010	6/11/2024	Barium-140	7.09E-03	1.11E-02	3.84E-02	pCi/m3	U
2112	682054003	7/8/2024	Barium-140	-2.52E-02	1.54E-02	4.57E-02	pCi/m3	U
2112	691730007	8/6/2024	Barium-140	2.11E-01	8.26E-02	3.24E-01	pCi/m3	U
2112	691734001	8/27/2024	Barium-140	1.27E-03	2.01E-02	6.60E-02	pCi/m3	U
2112	695577010	10/1/2024	Barium-140	-4.31E-03	9.79E-03	3.05E-02	pCi/m3	U
2112	702719007	10/28/2024	Barium-140	4.42E-02	4.19E-02	1.51E-01	pCi/m3	U
2112	703169005	11/25/2024	Barium-140	1.46E-02	1.32E-02	4.75E-02	pCi/m3	U
2112	706986005	12/24/2024	Barium-140	-1.02E-02	9.81E-03	2.91E-02	pCi/m3	U
2112	657104004	1/24/2024	Beryllium-7	5.60E-02	6.54E-03	9.30E-03	pCi/m3	U
2112	659797010	2/20/2024	Beryllium-7	7.76E-02	9.02E-03	1.22E-02	pCi/m3	U
2112	664161006	3/19/2024	Beryllium-7	8.66E-02	7.71E-03	8.64E-03	pCi/m3	U
2112	669419008	4/16/2024	Beryllium-7	1.24E-01	1.35E-02	1.31E-02	pCi/m3	U
2112	674392010	5/13/2024	Beryllium-7	1.32E-01	1.41E-02	2.06E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	676203010	6/11/2024	Beryllium-7	1.35E-01	1.17E-02	1.32E-02	pCi/m3	
2112	682054003	7/8/2024	Beryllium-7	1.22E-01	9.95E-03	1.17E-02	pCi/m3	
2112	691730007	8/6/2024	Beryllium-7	1.06E-01	1.04E-02	1.73E-02	pCi/m3	
2112	691734001	8/27/2024	Beryllium-7	1.23E-01	1.20E-02	9.53E-03	pCi/m3	
2112	695577010	10/1/2024	Beryllium-7	8.82E-02	7.59E-03	9.61E-03	pCi/m3	
2112	702719007	10/28/2024	Beryllium-7	1.06E-01	1.44E-02	1.81E-02	pCi/m3	
2112	703169005	11/25/2024	Beryllium-7	7.21E-02	1.03E-02	1.15E-02	pCi/m3	
2112	706986005	12/24/2024	Beryllium-7	6.50E-02	1.05E-02	9.09E-03	pCi/m3	
2112	650210023	1/2/2024	BETA	3.95E-02	1.72E-03	1.36E-03	pCi/m3	
2112	650994015	1/8/2024	BETA	4.12E-02	1.90E-03	1.69E-03	pCi/m3	
2112	651848019	1/18/2024	BETA	4.14E-02	1.53E-03	1.04E-03	pCi/m3	
2112	652268007	1/24/2024	BETA	4.19E-02	2.12E-03	1.88E-03	pCi/m3	
2112	653178019	1/30/2024	BETA	1.57E-02	1.36E-03	1.91E-03	pCi/m3	
2112	654187021	2/6/2024	BETA	4.13E-02	2.13E-03	1.91E-03	pCi/m3	
2112	655008007	2/13/2024	BETA	2.24E-02	1.35E-03	1.37E-03	pCi/m3	
2112	655819021	2/20/2024	BETA	3.26E-02	1.65E-03	1.52E-03	pCi/m3	
2112	656511009	2/27/2024	BETA	3.32E-02	1.69E-03	1.50E-03	pCi/m3	
2112	657416007	3/4/2024	BETA	2.76E-02	1.48E-03	1.31E-03	pCi/m3	
2112	658450007	3/12/2024	BETA	2.24E-02	1.20E-03	1.12E-03	pCi/m3	
2112	659313011	3/19/2024	BETA	2.55E-02	1.38E-03	1.30E-03	pCi/m3	
2112	660083003	3/26/2024	BETA	3.24E-02	1.56E-03	1.29E-03	pCi/m3	
2112	660793011	4/1/2024	BETA	3.17E-02	1.54E-03	1.29E-03	pCi/m3	
2112	662052007	4/9/2024	BETA	2.42E-02	1.43E-03	1.41E-03	pCi/m3	
2112	662074021	4/16/2024	BETA	3.05E-02	1.73E-03	1.59E-03	pCi/m3	
2112	664092011	4/23/2024	BETA	3.05E-02	1.74E-03	1.60E-03	pCi/m3	
2112	665204001	4/30/2024	BETA	3.70E-02	1.94E-03	1.78E-03	pCi/m3	
2112	666121013	5/7/2024	BETA	2.42E-02	1.34E-03	1.27E-03	pCi/m3	
2112	667159019	5/13/2024	BETA	2.35E-02	1.42E-03	1.42E-03	pCi/m3	
2112	668220014	5/20/2024	BETA	2.08E-02	1.19E-03	1.14E-03	pCi/m3	
2112	669062001	5/28/2024	BETA	2.45E-02	1.35E-03	1.30E-03	pCi/m3	
2112	669755009	6/3/2024	BETA	2.92E-02	1.69E-03	1.63E-03	pCi/m3	
2112	670837021	6/11/2024	BETA	2.07E-02	1.12E-03	1.10E-03	pCi/m3	
2112	671897009	6/18/2024	BETA	4.05E-02	1.79E-03	1.38E-03	pCi/m3	
2112	672773013	6/25/2024	BETA	3.51E-02	1.67E-03	1.39E-03	pCi/m3	
2112	673676019	7/2/2024	BETA	3.10E-02	1.63E-03	1.52E-03	pCi/m3	
2112	674336005	7/8/2024	BETA	2.58E-02	1.61E-03	1.74E-03	pCi/m3	
2112	675686015	7/16/2024	BETA	3.20E-02	1.35E-03	9.98E-04	pCi/m3	
2112	676802009	7/23/2024	BETA	2.26E-02	1.21E-03	1.18E-03	pCi/m3	
2112	677970019	7/30/2024	BETA	3.00E-02	1.42E-03	1.16E-03	pCi/m3	
2112	679202013	8/6/2024	BETA	3.56E-02	1.56E-03	1.54E-03	pCi/m3	
2112	680237013	8/13/2024	BETA	4.41E-02	1.70E-03	1.21E-03	pCi/m3	
2112	681488007	8/20/2024	BETA	3.88E-02	1.60E-03	1.15E-03	pCi/m3	
2112	682604001	8/27/2024	BETA	3.87E-02	1.58E-03	1.18E-03	pCi/m3	
2112	683692019	9/4/2024	BETA	3.33E-02	1.37E-03	9.96E-04	pCi/m3	
2112	684664017	9/10/2024	BETA	5.42E-02	2.02E-03	1.35E-03	pCi/m3	
2112	685842023	9/17/2024	BETA	3.49E-02	2.93E-03	1.15E-03	pCi/m3	

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	686976009	9/23/2024	BETA	3.60E-02	1.77E-03	1.49E-03	pCi/m3	
2112	687851019	10/1/2024	BETA	2.71E-02	1.31E-03	1.15E-03	pCi/m3	
2112	689079005	10/8/2024	BETA	5.31E-02	2.13E-03	1.59E-03	pCi/m3	
2112	690093004	10/15/2024	BETA	6.66E-02	2.48E-03	1.63E-03	pCi/m3	
2112	691165011	10/22/2024	BETA	5.68E-02	2.37E-03	1.69E-03	pCi/m3	
2112	692327019	10/28/2024	BETA	6.88E-02	2.50E-03	1.66E-03	pCi/m3	
2112	693531009	11/4/2024	BETA	4.28E-02	1.86E-03	1.42E-03	pCi/m3	
2112	694911021	11/13/2024	BETA	3.39E-02	1.56E-03	1.32E-03	pCi/m3	
2112	696166011	11/19/2024	BETA	6.03E-02	2.55E-03	1.84E-03	pCi/m3	
2112	697367009	11/25/2024	BETA	3.26E-02	1.76E-03	1.75E-03	pCi/m3	
2112	698165011	12/4/2024	BETA	5.48E-02	1.89E-03	1.19E-03	pCi/m3	
2112	699433021	12/10/2024	BETA	4.88E-02	2.01E-03	1.53E-03	pCi/m3	
2112	700752017	12/17/2024	BETA	4.27E-02	1.82E-03	1.49E-03	pCi/m3	
2112	701911010	12/24/2024	BETA	3.00E-02	1.51E-03	1.40E-03	pCi/m3	
2112	657104004	1/24/2024	Bismuth-214	1.09E-03	7.09E-04	2.46E-03	pCi/m3	U
2112	659797010	2/20/2024	Bismuth-214	-3.33E-04	7.31E-04	2.30E-03	pCi/m3	U
2112	664161006	3/19/2024	Bismuth-214	6.95E-04	7.00E-04	2.27E-03	pCi/m3	U
2112	669419008	4/16/2024	Bismuth-214	-8.77E-04	7.19E-04	2.15E-03	pCi/m3	U
2112	674392010	5/13/2024	Bismuth-214	3.67E-03	1.35E-03	3.79E-03	pCi/m3	U
2112	676203010	6/11/2024	Bismuth-214	1.43E-03	1.08E-03	2.87E-03	pCi/m3	U
2112	682054003	7/8/2024	Bismuth-214	3.83E-03	1.08E-03	1.92E-03	pCi/m3	UI
2112	691730007	8/6/2024	Bismuth-214	6.59E-04	8.61E-04	1.92E-03	pCi/m3	U
2112	691734001	8/27/2024	Bismuth-214	-8.68E-05	4.13E-04	1.24E-03	pCi/m3	U
2112	695577010	10/1/2024	Bismuth-214	-6.74E-04	6.92E-04	2.10E-03	pCi/m3	U
2112	702719007	10/28/2024	Bismuth-214	1.92E-04	7.37E-04	2.46E-03	pCi/m3	U
2112	703169005	11/25/2024	Bismuth-214	1.04E-03	9.96E-04	2.84E-03	pCi/m3	U
2112	706986005	12/24/2024	Bismuth-214	1.33E-03	8.44E-04	2.00E-03	pCi/m3	U
2112	657104004	1/24/2024	Cerium-141	9.73E-05	6.12E-04	1.93E-03	pCi/m3	U
2112	659797010	2/20/2024	Cerium-141	-6.40E-04	6.30E-04	1.94E-03	pCi/m3	U
2112	664161006	3/19/2024	Cerium-141	1.16E-03	8.93E-04	1.72E-03	pCi/m3	U
2112	669419008	4/16/2024	Cerium-141	-4.74E-04	8.59E-04	2.72E-03	pCi/m3	U
2112	674392010	5/13/2024	Cerium-141	-4.11E-03	1.70E-03	4.26E-03	pCi/m3	U
2112	676203010	6/11/2024	Cerium-141	5.27E-04	6.03E-04	2.07E-03	pCi/m3	U
2112	682054003	7/8/2024	Cerium-141	-5.94E-04	8.62E-04	2.59E-03	pCi/m3	U
2112	691730007	8/6/2024	Cerium-141	-1.97E-03	1.71E-03	4.83E-03	pCi/m3	U
2112	691734001	8/27/2024	Cerium-141	-2.23E-04	7.71E-04	2.40E-03	pCi/m3	U
2112	695577010	10/1/2024	Cerium-141	-1.39E-04	6.61E-04	2.09E-03	pCi/m3	U
2112	702719007	10/28/2024	Cerium-141	-4.27E-03	1.44E-03	3.57E-03	pCi/m3	U
2112	703169005	11/25/2024	Cerium-141	-1.56E-03	7.20E-04	2.03E-03	pCi/m3	U
2112	706986005	12/24/2024	Cerium-141	7.33E-04	5.97E-04	1.91E-03	pCi/m3	U
2112	657104004	1/24/2024	Cerium-144	-3.73E-05	1.15E-03	3.60E-03	pCi/m3	U
2112	659797010	2/20/2024	Cerium-144	2.14E-03	1.95E-03	4.41E-03	pCi/m3	U
2112	664161006	3/19/2024	Cerium-144	-2.01E-03	1.06E-03	3.01E-03	pCi/m3	U
2112	669419008	4/16/2024	Cerium-144	6.58E-04	1.23E-03	4.15E-03	pCi/m3	U
2112	674392010	5/13/2024	Cerium-144	-1.88E-04	1.74E-03	5.57E-03	pCi/m3	U
2112	676203010	6/11/2024	Cerium-144	-4.56E-04	1.04E-03	3.34E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	682054003	7/8/2024	Cerium-144	-4.26E-04	1.36E-03	4.21E-03	pCi/m3	U
2112	691730007	8/6/2024	Cerium-144	-4.43E-04	1.16E-03	3.66E-03	pCi/m3	U
2112	691734001	8/27/2024	Cerium-144	5.68E-04	8.13E-04	2.70E-03	pCi/m3	U
2112	695577010	10/1/2024	Cerium-144	6.94E-04	9.63E-04	3.22E-03	pCi/m3	U
2112	702719007	10/28/2024	Cerium-144	1.19E-03	1.32E-03	4.50E-03	pCi/m3	U
2112	703169005	11/25/2024	Cerium-144	-1.10E-03	1.12E-03	3.46E-03	pCi/m3	U
2112	706986005	12/24/2024	Cerium-144	-6.80E-04	1.09E-03	3.33E-03	pCi/m3	U
2112	657104004	1/24/2024	Cesium-134	1.94E-04	2.48E-04	8.79E-04	pCi/m3	U
2112	659797010	2/20/2024	Cesium-134	-1.15E-04	3.62E-04	1.14E-03	pCi/m3	U
2112	664161006	3/19/2024	Cesium-134	-1.24E-04	3.23E-04	9.90E-04	pCi/m3	U
2112	669419008	4/16/2024	Cesium-134	-1.98E-05	3.55E-04	1.20E-03	pCi/m3	U
2112	674392010	5/13/2024	Cesium-134	-2.79E-04	3.82E-04	1.20E-03	pCi/m3	U
2112	676203010	6/11/2024	Cesium-134	-1.52E-05	3.27E-04	1.10E-03	pCi/m3	U
2112	682054003	7/8/2024	Cesium-134	3.26E-04	3.20E-04	1.14E-03	pCi/m3	U
2112	691730007	8/6/2024	Cesium-134	2.69E-04	2.39E-04	9.00E-04	pCi/m3	U
2112	691734001	8/27/2024	Cesium-134	-3.51E-04	2.30E-04	5.92E-04	pCi/m3	U
2112	695577010	10/1/2024	Cesium-134	7.81E-05	2.58E-04	8.94E-04	pCi/m3	U
2112	702719007	10/28/2024	Cesium-134	-4.90E-04	2.92E-04	7.22E-04	pCi/m3	U
2112	703169005	11/25/2024	Cesium-134	-5.74E-05	3.98E-04	1.32E-03	pCi/m3	U
2112	706986005	12/24/2024	Cesium-134	-3.08E-04	2.63E-04	7.17E-04	pCi/m3	U
2112	657104004	1/24/2024	Cesium-137	-7.34E-07	2.59E-04	8.39E-04	pCi/m3	U
2112	659797010	2/20/2024	Cesium-137	-1.91E-04	3.44E-04	1.08E-03	pCi/m3	U
2112	664161006	3/19/2024	Cesium-137	-1.94E-04	2.57E-04	7.66E-04	pCi/m3	U
2112	669419008	4/16/2024	Cesium-137	1.44E-04	2.65E-04	9.01E-04	pCi/m3	U
2112	674392010	5/13/2024	Cesium-137	6.38E-04	6.38E-04	1.11E-03	pCi/m3	U
2112	676203010	6/11/2024	Cesium-137	2.88E-04	3.17E-04	1.12E-03	pCi/m3	U
2112	682054003	7/8/2024	Cesium-137	6.45E-04	2.93E-04	1.07E-03	pCi/m3	U
2112	691730007	8/6/2024	Cesium-137	-3.81E-04	3.15E-04	8.82E-04	pCi/m3	U
2112	691734001	8/27/2024	Cesium-137	-1.10E-04	1.88E-04	5.68E-04	pCi/m3	U
2112	695577010	10/1/2024	Cesium-137	9.17E-05	2.23E-04	7.41E-04	pCi/m3	U
2112	702719007	10/28/2024	Cesium-137	3.36E-04	2.90E-04	1.04E-03	pCi/m3	U
2112	703169005	11/25/2024	Cesium-137	-5.24E-04	3.32E-04	8.64E-04	pCi/m3	U
2112	706986005	12/24/2024	Cesium-137	-1.88E-04	1.97E-04	5.60E-04	pCi/m3	U
2112	657104004	1/24/2024	Chromium-51	3.03E-03	4.11E-03	1.38E-02	pCi/m3	U
2112	659797010	2/20/2024	Chromium-51	-2.45E-03	4.69E-03	1.57E-02	pCi/m3	U
2112	664161006	3/19/2024	Chromium-51	-4.74E-03	3.92E-03	1.24E-02	pCi/m3	U
2112	669419008	4/16/2024	Chromium-51	8.44E-03	6.18E-03	2.27E-02	pCi/m3	U
2112	674392010	5/13/2024	Chromium-51	-4.58E-03	1.11E-02	3.66E-02	pCi/m3	U
2112	676203010	6/11/2024	Chromium-51	-2.11E-03	4.73E-03	1.56E-02	pCi/m3	U
2112	682054003	7/8/2024	Chromium-51	-6.75E-03	6.63E-03	2.02E-02	pCi/m3	U
2112	691730007	8/6/2024	Chromium-51	-8.12E-03	1.43E-02	4.68E-02	pCi/m3	U
2112	691734001	8/27/2024	Chromium-51	7.32E-03	6.35E-03	2.28E-02	pCi/m3	U
2112	695577010	10/1/2024	Chromium-51	9.09E-03	5.43E-03	1.98E-02	pCi/m3	U
2112	702719007	10/28/2024	Chromium-51	1.63E-02	1.10E-02	4.06E-02	pCi/m3	U
2112	703169005	11/25/2024	Chromium-51	3.54E-03	6.72E-03	2.36E-02	pCi/m3	U
2112	706986005	12/24/2024	Chromium-51	-4.61E-03	4.55E-03	1.44E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	657104004	1/24/2024	Cobalt-57	-6.07E-05	1.61E-04	5.01E-04	pCi/m3	U
2112	659797010	2/20/2024	Cobalt-57	-4.26E-04	1.78E-04	5.10E-04	pCi/m3	U
2112	664161006	3/19/2024	Cobalt-57	1.43E-04	1.32E-04	4.49E-04	pCi/m3	U
2112	669419008	4/16/2024	Cobalt-57	1.39E-04	1.59E-04	5.48E-04	pCi/m3	U
2112	674392010	5/13/2024	Cobalt-57	7.17E-05	2.02E-04	6.66E-04	pCi/m3	U
2112	676203010	6/11/2024	Cobalt-57	3.46E-05	1.23E-04	4.13E-04	pCi/m3	U
2112	682054003	7/8/2024	Cobalt-57	-4.85E-05	1.81E-04	5.64E-04	pCi/m3	U
2112	691730007	8/6/2024	Cobalt-57	9.02E-05	1.40E-04	4.70E-04	pCi/m3	U
2112	691734001	8/27/2024	Cobalt-57	-5.86E-06	1.03E-04	3.27E-04	pCi/m3	U
2112	695577010	10/1/2024	Cobalt-57	3.72E-05	1.23E-04	4.04E-04	pCi/m3	U
2112	702719007	10/28/2024	Cobalt-57	4.30E-04	2.82E-04	5.04E-04	pCi/m3	U
2112	703169005	11/25/2024	Cobalt-57	9.52E-05	1.45E-04	5.04E-04	pCi/m3	U
2112	706986005	12/24/2024	Cobalt-57	6.33E-05	1.28E-04	4.20E-04	pCi/m3	U
2112	657104004	1/24/2024	Cobalt-58	2.84E-04	3.19E-04	1.02E-03	pCi/m3	U
2112	659797010	2/20/2024	Cobalt-58	-3.48E-05	4.33E-04	1.39E-03	pCi/m3	U
2112	664161006	3/19/2024	Cobalt-58	1.72E-04	2.83E-04	9.73E-04	pCi/m3	U
2112	669419008	4/16/2024	Cobalt-58	-3.72E-04	3.67E-04	1.08E-03	pCi/m3	U
2112	674392010	5/13/2024	Cobalt-58	7.05E-04	5.65E-04	2.11E-03	pCi/m3	U
2112	676203010	6/11/2024	Cobalt-58	1.68E-04	5.50E-04	1.71E-03	pCi/m3	U
2112	682054003	7/8/2024	Cobalt-58	6.79E-04	4.68E-04	1.70E-03	pCi/m3	U
2112	691730007	8/6/2024	Cobalt-58	7.51E-04	5.57E-04	2.09E-03	pCi/m3	U
2112	691734001	8/27/2024	Cobalt-58	2.38E-04	3.56E-04	1.21E-03	pCi/m3	U
2112	695577010	10/1/2024	Cobalt-58	1.66E-04	2.98E-04	1.06E-03	pCi/m3	U
2112	702719007	10/28/2024	Cobalt-58	-5.05E-04	5.26E-04	1.49E-03	pCi/m3	U
2112	703169005	11/25/2024	Cobalt-58	3.73E-04	4.98E-04	1.78E-03	pCi/m3	U
2112	706986005	12/24/2024	Cobalt-58	-5.41E-05	3.26E-04	9.59E-04	pCi/m3	U
2112	657104004	1/24/2024	Cobalt-60	2.23E-04	3.29E-04	1.15E-03	pCi/m3	U
2112	659797010	2/20/2024	Cobalt-60	-1.55E-04	3.33E-04	1.04E-03	pCi/m3	U
2112	664161006	3/19/2024	Cobalt-60	6.25E-05	2.68E-04	9.20E-04	pCi/m3	U
2112	669419008	4/16/2024	Cobalt-60	6.66E-05	3.08E-04	1.03E-03	pCi/m3	U
2112	674392010	5/13/2024	Cobalt-60	1.27E-03	4.88E-04	1.74E-03	pCi/m3	U
2112	676203010	6/11/2024	Cobalt-60	5.45E-04	3.88E-04	1.54E-03	pCi/m3	U
2112	682054003	7/8/2024	Cobalt-60	4.75E-04	3.09E-04	1.17E-03	pCi/m3	U
2112	691730007	8/6/2024	Cobalt-60	5.60E-04	3.09E-04	1.22E-03	pCi/m3	U
2112	691734001	8/27/2024	Cobalt-60	1.55E-04	1.80E-04	6.74E-04	pCi/m3	U
2112	695577010	10/1/2024	Cobalt-60	3.44E-04	2.65E-04	9.96E-04	pCi/m3	U
2112	702719007	10/28/2024	Cobalt-60	-3.65E-04	3.00E-04	8.01E-04	pCi/m3	U
2112	703169005	11/25/2024	Cobalt-60	9.24E-04	4.28E-04	1.77E-03	pCi/m3	U
2112	706986005	12/24/2024	Cobalt-60	-2.22E-04	2.80E-04	8.18E-04	pCi/m3	U
2112	657104004	1/24/2024	Iron-59	1.26E-04	9.43E-04	2.69E-03	pCi/m3	U
2112	659797010	2/20/2024	Iron-59	1.87E-03	7.96E-04	2.12E-03	pCi/m3	U
2112	664161006	3/19/2024	Iron-59	-2.63E-04	5.49E-04	1.71E-03	pCi/m3	U
2112	669419008	4/16/2024	Iron-59	1.26E-03	1.18E-03	4.41E-03	pCi/m3	U
2112	674392010	5/13/2024	Iron-59	-1.87E-03	1.73E-03	4.94E-03	pCi/m3	U
2112	676203010	6/11/2024	Iron-59	-7.70E-04	1.18E-03	3.44E-03	pCi/m3	U
2112	682054003	7/8/2024	Iron-59	3.54E-04	1.14E-03	3.79E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	691730007	8/6/2024	Iron-59	-1.27E-03	1.94E-03	5.93E-03	pCi/m3	U
2112	691734001	8/27/2024	Iron-59	1.06E-03	1.08E-03	3.86E-03	pCi/m3	U
2112	695577010	10/1/2024	Iron-59	-1.66E-03	9.85E-04	2.60E-03	pCi/m3	U
2112	702719007	10/28/2024	Iron-59	3.47E-04	1.71E-03	5.88E-03	pCi/m3	U
2112	703169005	11/25/2024	Iron-59	-2.12E-03	1.58E-03	4.27E-03	pCi/m3	U
2112	706986005	12/24/2024	Iron-59	-1.02E-03	9.20E-04	2.65E-03	pCi/m3	U
2112	657104004	1/24/2024	Lanthanum-140	1.46E-03	2.33E-03	8.10E-03	pCi/m3	U
2112	659797010	2/20/2024	Lanthanum-140	-3.73E-03	2.39E-03	6.01E-03	pCi/m3	U
2112	664161006	3/19/2024	Lanthanum-140	1.32E-03	1.83E-03	6.75E-03	pCi/m3	U
2112	669419008	4/16/2024	Lanthanum-140	-7.28E-03	5.24E-03	1.26E-02	pCi/m3	U
2112	674392010	5/13/2024	Lanthanum-140	3.37E-02	1.12E-02	4.68E-02	pCi/m3	U
2112	676203010	6/11/2024	Lanthanum-140	-9.66E-03	5.85E-03	1.43E-02	pCi/m3	U
2112	682054003	7/8/2024	Lanthanum-140	-3.53E-03	6.28E-03	1.92E-02	pCi/m3	U
2112	691730007	8/6/2024	Lanthanum-140	4.38E-02	4.60E-02	1.56E-01	pCi/m3	U
2112	691734001	8/27/2024	Lanthanum-140	-1.97E-03	1.03E-02	3.26E-02	pCi/m3	U
2112	695577010	10/1/2024	Lanthanum-140	-9.56E-04	5.49E-03	1.81E-02	pCi/m3	U
2112	702719007	10/28/2024	Lanthanum-140	3.89E-03	1.88E-02	6.34E-02	pCi/m3	U
2112	703169005	11/25/2024	Lanthanum-140	-8.57E-03	5.95E-03	1.44E-02	pCi/m3	U
2112	706986005	12/24/2024	Lanthanum-140	2.19E-03	4.54E-03	1.56E-02	pCi/m3	U
2112	657104004	1/24/2024	Lead-210	3.36E-01	1.39E-01	2.08E-01	pCi/m3	UI
2112	659797010	2/20/2024	Lead-210	2.09E-02	2.49E-02	8.73E-02	pCi/m3	U
2112	664161006	3/19/2024	Lead-210	1.46E-02	4.38E-02	7.03E-02	pCi/m3	U
2112	669419008	4/16/2024	Lead-210	-2.99E-03	3.67E-02	1.21E-01	pCi/m3	U
2112	674392010	5/13/2024	Lead-210	4.34E-02	4.48E-02	1.58E-01	pCi/m3	U
2112	676203010	6/11/2024	Lead-210	2.66E-02	3.97E-03	5.48E-03	pCi/m3	
2112	682054003	7/8/2024	Lead-210	-1.30E-02	6.56E-02	2.21E-01	pCi/m3	U
2112	691730007	8/6/2024	Lead-210	2.12E-02	1.42E-02	2.69E-02	pCi/m3	U
2112	691734001	8/27/2024	Lead-210	3.05E-02	1.52E-02	2.50E-02	pCi/m3	UI
2112	695577010	10/1/2024	Lead-210	5.31E-02	1.80E-02	2.32E-02	pCi/m3	
2112	702719007	10/28/2024	Lead-210	4.28E-02	3.98E-02	7.37E-02	pCi/m3	U
2112	703169005	11/25/2024	Lead-210	-3.63E-03	5.58E-02	1.55E-01	pCi/m3	U
2112	706986005	12/24/2024	Lead-210	5.74E-02	2.02E-02	2.83E-02	pCi/m3	
2112	657104004	1/24/2024	Lead-212	1.40E-03	6.95E-04	1.63E-03	pCi/m3	U
2112	659797010	2/20/2024	Lead-212	1.15E-03	8.24E-04	1.79E-03	pCi/m3	U
2112	664161006	3/19/2024	Lead-212	1.91E-03	7.10E-04	1.05E-03	pCi/m3	UI
2112	669419008	4/16/2024	Lead-212	1.27E-03	6.06E-04	1.71E-03	pCi/m3	U
2112	674392010	5/13/2024	Lead-212	1.04E-03	9.40E-04	2.17E-03	pCi/m3	U
2112	676203010	6/11/2024	Lead-212	2.73E-03	8.83E-04	9.75E-04	pCi/m3	
2112	682054003	7/8/2024	Lead-212	1.86E-03	8.04E-04	1.82E-03	pCi/m3	UI
2112	691730007	8/6/2024	Lead-212	9.68E-04	8.03E-04	1.19E-03	pCi/m3	U
2112	691734001	8/27/2024	Lead-212	1.48E-03	6.24E-04	1.23E-03	pCi/m3	UI
2112	695577010	10/1/2024	Lead-212	4.85E-04	4.79E-04	1.40E-03	pCi/m3	U
2112	702719007	10/28/2024	Lead-212	4.64E-04	6.88E-04	1.94E-03	pCi/m3	U
2112	703169005	11/25/2024	Lead-212	4.49E-04	8.28E-04	1.88E-03	pCi/m3	U
2112	706986005	12/24/2024	Lead-212	1.57E-03	7.61E-04	9.18E-04	pCi/m3	UI
2112	657104004	1/24/2024	Lead-214	2.85E-04	5.92E-04	1.90E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	659797010	2/20/2024	Lead-214	-1.63E-03	7.57E-04	2.21E-03	pCi/m3	U
2112	664161006	3/19/2024	Lead-214	2.04E-04	7.09E-04	1.90E-03	pCi/m3	U
2112	669419008	4/16/2024	Lead-214	1.40E-03	9.48E-04	2.18E-03	pCi/m3	U
2112	674392010	5/13/2024	Lead-214	1.59E-03	9.37E-04	2.78E-03	pCi/m3	U
2112	676203010	6/11/2024	Lead-214	3.39E-03	7.21E-04	1.60E-03	pCi/m3	
2112	682054003	7/8/2024	Lead-214	1.64E-03	8.15E-04	2.02E-03	pCi/m3	U
2112	691730007	8/6/2024	Lead-214	1.50E-03	9.73E-04	2.32E-03	pCi/m3	U
2112	691734001	8/27/2024	Lead-214	7.42E-04	5.67E-04	1.48E-03	pCi/m3	U
2112	695577010	10/1/2024	Lead-214	1.59E-03	8.70E-04	1.86E-03	pCi/m3	U
2112	702719007	10/28/2024	Lead-214	4.76E-04	6.07E-04	2.10E-03	pCi/m3	U
2112	703169005	11/25/2024	Lead-214	1.40E-04	6.56E-04	2.06E-03	pCi/m3	U
2112	706986005	12/24/2024	Lead-214	-4.70E-04	4.92E-04	1.43E-03	pCi/m3	U
2112	657104004	1/24/2024	Manganese-54	-1.73E-05	2.84E-04	9.46E-04	pCi/m3	U
2112	659797010	2/20/2024	Manganese-54	5.22E-04	3.95E-04	1.41E-03	pCi/m3	U
2112	664161006	3/19/2024	Manganese-54	-1.11E-04	2.63E-04	8.05E-04	pCi/m3	U
2112	669419008	4/16/2024	Manganese-54	-1.88E-04	3.06E-04	9.68E-04	pCi/m3	U
2112	674392010	5/13/2024	Manganese-54	4.09E-04	4.27E-04	1.54E-03	pCi/m3	U
2112	676203010	6/11/2024	Manganese-54	-4.90E-04	3.86E-04	1.12E-03	pCi/m3	U
2112	682054003	7/8/2024	Manganese-54	7.15E-04	3.23E-04	1.22E-03	pCi/m3	U
2112	691730007	8/6/2024	Manganese-54	-1.03E-04	2.96E-04	9.66E-04	pCi/m3	U
2112	691734001	8/27/2024	Manganese-54	3.65E-04	1.59E-04	6.72E-04	pCi/m3	U
2112	695577010	10/1/2024	Manganese-54	-3.60E-04	2.66E-04	6.99E-04	pCi/m3	U
2112	702719007	10/28/2024	Manganese-54	1.47E-04	3.27E-04	1.10E-03	pCi/m3	U
2112	703169005	11/25/2024	Manganese-54	8.11E-05	2.56E-04	8.02E-04	pCi/m3	U
2112	706986005	12/24/2024	Manganese-54	1.16E-04	2.22E-04	7.92E-04	pCi/m3	U
2112	657104004	1/24/2024	Molybdenum-99	1.45E+01	1.79E+01	0.00E+00	pCi/m3	UI
2112	659797010	2/20/2024	Molybdenum-99	-9.16E+00	7.02E+00	0.00E+00	pCi/m3	U
2112	664161006	3/19/2024	Molybdenum-99	1.84E+00	1.87E+01	0.00E+00	pCi/m3	UI
2112	669419008	4/16/2024	Molybdenum-99	-1.74E+03	1.14E+03	0.00E+00	pCi/m3	U
2112	674392010	5/13/2024	Molybdenum-99	-5.59E+03	2.01E+04	0.00E+00	pCi/m3	U
2112	676203010	6/11/2024	Molybdenum-99	1.12E+02	1.97E+02	0.00E+00	pCi/m3	UI
2112	682054003	7/8/2024	Molybdenum-99	2.96E+02	1.72E+03	0.00E+00	pCi/m3	UI
2112	691730007	8/6/2024	Molybdenum-99	2.08E+06	7.05E+06	0.00E+00	pCi/m3	UI
2112	691734001	8/27/2024	Molybdenum-99	3.47E+04	2.38E+04	0.00E+00	pCi/m3	UI
2112	695577010	10/1/2024	Molybdenum-99	-5.16E+02	6.97E+02	0.00E+00	pCi/m3	U
2112	702719007	10/28/2024	Molybdenum-99	-1.56E+05	2.11E+05	0.00E+00	pCi/m3	U
2112	703169005	11/25/2024	Molybdenum-99	-1.26E+01	5.59E+02	0.00E+00	pCi/m3	U
2112	706986005	12/24/2024	Molybdenum-99	4.13E+02	2.73E+02	0.00E+00	pCi/m3	UI
2112	657104004	1/24/2024	Niobium-95	3.95E-04	3.33E-04	1.20E-03	pCi/m3	U
2112	659797010	2/20/2024	Niobium-95	2.54E-04	4.65E-04	1.58E-03	pCi/m3	U
2112	664161006	3/19/2024	Niobium-95	-1.52E-04	3.70E-04	1.15E-03	pCi/m3	U
2112	669419008	4/16/2024	Niobium-95	-3.19E-04	4.19E-04	1.31E-03	pCi/m3	U
2112	674392010	5/13/2024	Niobium-95	-4.06E-04	7.14E-04	2.32E-03	pCi/m3	U
2112	676203010	6/11/2024	Niobium-95	2.47E-04	4.68E-04	1.68E-03	pCi/m3	U
2112	682054003	7/8/2024	Niobium-95	1.09E-03	5.10E-04	1.76E-03	pCi/m3	U
2112	691730007	8/6/2024	Niobium-95	-1.10E-04	5.69E-04	1.90E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	691734001	8/27/2024	Niobium-95	2.04E-04	4.00E-04	1.34E-03	pCi/m3	U
2112	695577010	10/1/2024	Niobium-95	2.33E-04	3.52E-04	1.26E-03	pCi/m3	U
2112	702719007	10/28/2024	Niobium-95	1.04E-03	9.60E-04	1.52E-03	pCi/m3	U
2112	703169005	11/25/2024	Niobium-95	2.88E-04	4.57E-04	1.63E-03	pCi/m3	U
2112	706986005	12/24/2024	Niobium-95	-5.88E-04	3.75E-04	9.99E-04	pCi/m3	U
2112	657104004	1/24/2024	Potassium-40	-1.99E-03	4.27E-03	1.40E-02	pCi/m3	U
2112	659797010	2/20/2024	Potassium-40	5.20E-03	5.59E-03	1.13E-02	pCi/m3	U
2112	664161006	3/19/2024	Potassium-40	4.68E-03	4.00E-03	1.60E-02	pCi/m3	U
2112	669419008	4/16/2024	Potassium-40	6.41E-03	8.03E-03	1.20E-02	pCi/m3	U
2112	674392010	5/13/2024	Potassium-40	5.19E-03	8.55E-03	1.33E-02	pCi/m3	U
2112	676203010	6/11/2024	Potassium-40	1.04E-02	7.13E-03	1.32E-02	pCi/m3	U
2112	682054003	7/8/2024	Potassium-40	7.74E-03	8.05E-03	9.97E-03	pCi/m3	U
2112	691730007	8/6/2024	Potassium-40	1.40E-02	5.41E-03	1.12E-02	pCi/m3	UI
2112	691734001	8/27/2024	Potassium-40	9.81E-03	4.40E-03	5.00E-03	pCi/m3	UI
2112	695577010	10/1/2024	Potassium-40	9.24E-03	4.11E-03	1.67E-02	pCi/m3	U
2112	702719007	10/28/2024	Potassium-40	3.20E-03	5.17E-03	1.87E-02	pCi/m3	U
2112	703169005	11/25/2024	Potassium-40	1.44E-02	7.01E-03	9.91E-03	pCi/m3	UI
2112	706986005	12/24/2024	Potassium-40	1.75E-02	4.15E-03	4.81E-03	pCi/m3	UI
2112	657104004	1/24/2024	Radium-226	2.85E-04	5.92E-04	1.90E-03	pCi/m3	U
2112	659797010	2/20/2024	Radium-226	-1.63E-03	7.57E-04	2.21E-03	pCi/m3	U
2112	664161006	3/19/2024	Radium-226	2.04E-04	7.09E-04	1.90E-03	pCi/m3	U
2112	669419008	4/16/2024	Radium-226	1.40E-03	9.48E-04	2.18E-03	pCi/m3	U
2112	674392010	5/13/2024	Radium-226	1.59E-03	9.37E-04	2.78E-03	pCi/m3	U
2112	676203010	6/11/2024	Radium-226	3.39E-03	7.21E-04	1.60E-03	pCi/m3	U
2112	682054003	7/8/2024	Radium-226	1.64E-03	8.15E-04	2.02E-03	pCi/m3	U
2112	691730007	8/6/2024	Radium-226	1.50E-03	9.73E-04	2.32E-03	pCi/m3	U
2112	691734001	8/27/2024	Radium-226	7.42E-04	5.67E-04	1.48E-03	pCi/m3	U
2112	695577010	10/1/2024	Radium-226	1.59E-03	8.70E-04	1.86E-03	pCi/m3	U
2112	702719007	10/28/2024	Radium-226	4.76E-04	6.07E-04	2.10E-03	pCi/m3	U
2112	703169005	11/25/2024	Radium-226	1.40E-04	6.56E-04	2.06E-03	pCi/m3	U
2112	706986005	12/24/2024	Radium-226	-4.70E-04	4.92E-04	1.43E-03	pCi/m3	U
2112	657104004	1/24/2024	Radium-228	7.99E-04	1.92E-03	4.31E-03	pCi/m3	U
2112	659797010	2/20/2024	Radium-228	-8.70E-04	1.77E-03	5.40E-03	pCi/m3	U
2112	664161006	3/19/2024	Radium-228	9.80E-04	1.85E-03	4.40E-03	pCi/m3	U
2112	669419008	4/16/2024	Radium-228	1.28E-03	1.39E-03	3.89E-03	pCi/m3	U
2112	674392010	5/13/2024	Radium-228	1.47E-03	2.48E-03	6.83E-03	pCi/m3	U
2112	676203010	6/11/2024	Radium-228	1.84E-03	1.48E-03	5.37E-03	pCi/m3	U
2112	682054003	7/8/2024	Radium-228	1.61E-03	1.44E-03	5.02E-03	pCi/m3	U
2112	691730007	8/6/2024	Radium-228	1.20E-03	1.75E-03	5.09E-03	pCi/m3	U
2112	691734001	8/27/2024	Radium-228	-3.50E-05	8.39E-04	2.79E-03	pCi/m3	U
2112	695577010	10/1/2024	Radium-228	3.20E-03	1.64E-03	4.07E-03	pCi/m3	U
2112	702719007	10/28/2024	Radium-228	3.58E-04	1.64E-03	5.27E-03	pCi/m3	U
2112	703169005	11/25/2024	Radium-228	2.98E-03	1.75E-03	5.80E-03	pCi/m3	U
2112	706986005	12/24/2024	Radium-228	6.35E-04	1.20E-03	4.01E-03	pCi/m3	U
2112	657104004	1/24/2024	Ruthenium-103	1.93E-04	3.62E-04	1.24E-03	pCi/m3	U
2112	659797010	2/20/2024	Ruthenium-103	-2.55E-04	4.47E-04	1.44E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	664161006	3/19/2024	Ruthenium-103	3.34E-04	4.09E-04	1.43E-03	pCi/m3	U
2112	669419008	4/16/2024	Ruthenium-103	-1.12E-04	6.43E-04	2.08E-03	pCi/m3	U
2112	674392010	5/13/2024	Ruthenium-103	-1.59E-03	8.31E-04	2.27E-03	pCi/m3	U
2112	676203010	6/11/2024	Ruthenium-103	3.03E-05	6.14E-04	2.03E-03	pCi/m3	U
2112	682054003	7/8/2024	Ruthenium-103	-2.23E-04	5.83E-04	1.90E-03	pCi/m3	U
2112	691730007	8/6/2024	Ruthenium-103	1.20E-03	9.49E-04	3.40E-03	pCi/m3	U
2112	691734001	8/27/2024	Ruthenium-103	7.57E-04	5.45E-04	1.97E-03	pCi/m3	U
2112	695577010	10/1/2024	Ruthenium-103	-5.18E-04	4.48E-04	1.33E-03	pCi/m3	U
2112	702719007	10/28/2024	Ruthenium-103	1.16E-03	8.69E-04	3.16E-03	pCi/m3	U
2112	703169005	11/25/2024	Ruthenium-103	1.29E-03	9.32E-04	2.03E-03	pCi/m3	U
2112	706986005	12/24/2024	Ruthenium-103	7.67E-04	3.45E-04	1.36E-03	pCi/m3	U
2112	657104004	1/24/2024	Ruthenium-106	1.80E-03	2.21E-03	7.56E-03	pCi/m3	U
2112	659797010	2/20/2024	Ruthenium-106	2.54E-03	3.50E-03	9.89E-03	pCi/m3	U
2112	664161006	3/19/2024	Ruthenium-106	-5.46E-04	2.10E-03	6.72E-03	pCi/m3	U
2112	669419008	4/16/2024	Ruthenium-106	3.75E-03	2.34E-03	8.78E-03	pCi/m3	U
2112	674392010	5/13/2024	Ruthenium-106	5.86E-03	3.74E-03	1.34E-02	pCi/m3	U
2112	676203010	6/11/2024	Ruthenium-106	4.38E-03	2.91E-03	1.08E-02	pCi/m3	U
2112	682054003	7/8/2024	Ruthenium-106	-7.66E-04	2.77E-03	8.89E-03	pCi/m3	U
2112	691730007	8/6/2024	Ruthenium-106	1.91E-03	2.56E-03	8.75E-03	pCi/m3	U
2112	691734001	8/27/2024	Ruthenium-106	-3.50E-03	2.02E-03	5.48E-03	pCi/m3	U
2112	695577010	10/1/2024	Ruthenium-106	3.40E-04	2.21E-03	7.20E-03	pCi/m3	U
2112	702719007	10/28/2024	Ruthenium-106	-2.63E-03	2.74E-03	8.19E-03	pCi/m3	U
2112	703169005	11/25/2024	Ruthenium-106	-2.49E-03	3.04E-03	8.92E-03	pCi/m3	U
2112	706986005	12/24/2024	Ruthenium-106	4.40E-04	2.13E-03	7.01E-03	pCi/m3	U
2112	657104004	1/24/2024	Selenium-75	7.51E-05	2.88E-04	9.59E-04	pCi/m3	U
2112	659797010	2/20/2024	Selenium-75	-5.89E-04	3.98E-04	1.13E-03	pCi/m3	U
2112	664161006	3/19/2024	Selenium-75	-1.01E-04	2.85E-04	9.57E-04	pCi/m3	U
2112	669419008	4/16/2024	Selenium-75	2.12E-04	3.49E-04	1.14E-03	pCi/m3	U
2112	674392010	5/13/2024	Selenium-75	-9.36E-05	5.07E-04	1.54E-03	pCi/m3	U
2112	676203010	6/11/2024	Selenium-75	-3.05E-04	3.49E-04	1.01E-03	pCi/m3	U
2112	682054003	7/8/2024	Selenium-75	-3.22E-04	3.56E-04	1.12E-03	pCi/m3	U
2112	691730007	8/6/2024	Selenium-75	-1.20E-04	3.36E-04	1.12E-03	pCi/m3	U
2112	691734001	8/27/2024	Selenium-75	-2.22E-04	2.58E-04	8.36E-04	pCi/m3	U
2112	695577010	10/1/2024	Selenium-75	1.05E-04	3.23E-04	1.12E-03	pCi/m3	U
2112	702719007	10/28/2024	Selenium-75	-4.38E-05	4.49E-04	1.39E-03	pCi/m3	U
2112	703169005	11/25/2024	Selenium-75	2.74E-04	3.52E-04	1.17E-03	pCi/m3	U
2112	706986005	12/24/2024	Selenium-75	1.88E-04	2.67E-04	9.46E-04	pCi/m3	U
2112	657104004	1/24/2024	Silver-108m	-6.46E-05	1.74E-04	5.76E-04	pCi/m3	U
2112	659797010	2/20/2024	Silver-108m	-1.96E-04	3.17E-04	9.08E-04	pCi/m3	U
2112	664161006	3/19/2024	Silver-108m	8.58E-05	1.85E-04	6.35E-04	pCi/m3	U
2112	669419008	4/16/2024	Silver-108m	-4.17E-05	1.89E-04	6.16E-04	pCi/m3	U
2112	674392010	5/13/2024	Silver-108m	-1.85E-04	2.88E-04	7.96E-04	pCi/m3	U
2112	676203010	6/11/2024	Silver-108m	1.04E-04	2.17E-04	7.51E-04	pCi/m3	U
2112	682054003	7/8/2024	Silver-108m	-4.09E-04	2.00E-04	4.81E-04	pCi/m3	U
2112	691730007	8/6/2024	Silver-108m	1.64E-04	2.01E-04	6.98E-04	pCi/m3	U
2112	691734001	8/27/2024	Silver-108m	3.31E-04	1.50E-04	5.70E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	695577010	10/1/2024	Silver-108m	-1.21E-04	1.58E-04	4.91E-04	pCi/m3	U
2112	702719007	10/28/2024	Silver-108m	5.89E-04	3.13E-04	8.35E-04	pCi/m3	U
2112	703169005	11/25/2024	Silver-108m	-1.41E-04	2.71E-04	7.67E-04	pCi/m3	U
2112	706986005	12/24/2024	Silver-108m	-1.26E-04	1.90E-04	6.01E-04	pCi/m3	U
2112	657104004	1/24/2024	Silver-110m	-5.02E-04	4.20E-04	1.29E-03	pCi/m3	U
2112	659797010	2/20/2024	Silver-110m	1.00E-03	4.30E-04	1.71E-03	pCi/m3	U
2112	664161006	3/19/2024	Silver-110m	-8.23E-05	3.02E-04	9.27E-04	pCi/m3	U
2112	669419008	4/16/2024	Silver-110m	5.35E-04	4.48E-04	1.61E-03	pCi/m3	U
2112	674392010	5/13/2024	Silver-110m	7.51E-04	6.26E-04	2.24E-03	pCi/m3	U
2112	676203010	6/11/2024	Silver-110m	-1.25E-04	5.02E-04	1.63E-03	pCi/m3	U
2112	682054003	7/8/2024	Silver-110m	-2.16E-04	4.28E-04	1.07E-03	pCi/m3	U
2112	691730007	8/6/2024	Silver-110m	4.41E-06	3.99E-04	1.34E-03	pCi/m3	U
2112	691734001	8/27/2024	Silver-110m	1.72E-04	2.77E-04	9.99E-04	pCi/m3	U
2112	695577010	10/1/2024	Silver-110m	2.20E-05	3.39E-04	1.15E-03	pCi/m3	U
2112	702719007	10/28/2024	Silver-110m	7.36E-04	5.06E-04	1.85E-03	pCi/m3	U
2112	703169005	11/25/2024	Silver-110m	-8.30E-04	5.83E-04	1.67E-03	pCi/m3	U
2112	706986005	12/24/2024	Silver-110m	-9.94E-05	2.94E-04	8.76E-04	pCi/m3	U
2112	657104004	1/24/2024	Tellurium-132	9.53E-02	4.32E-01	0.00E+00	pCi/m3	UI
2112	659797010	2/20/2024	Tellurium-132	-2.26E-01	2.12E-01	0.00E+00	pCi/m3	U
2112	664161006	3/19/2024	Tellurium-132	1.03E-01	5.01E-01	0.00E+00	pCi/m3	UI
2112	669419008	4/16/2024	Tellurium-132	1.26E+01	1.31E+01	0.00E+00	pCi/m3	UI
2112	674392010	5/13/2024	Tellurium-132	4.27E+01	1.81E+02	0.00E+00	pCi/m3	UI
2112	676203010	6/11/2024	Tellurium-132	-3.93E+00	2.53E+00	0.00E+00	pCi/m3	U
2112	682054003	7/8/2024	Tellurium-132	2.02E+01	2.00E+01	0.00E+00	pCi/m3	UI
2112	691730007	8/6/2024	Tellurium-132	1.91E+04	2.35E+04	0.00E+00	pCi/m3	UI
2112	691734001	8/27/2024	Tellurium-132	3.30E+01	1.92E+02	0.00E+00	pCi/m3	UI
2112	695577010	10/1/2024	Tellurium-132	5.20E+00	8.85E+00	0.00E+00	pCi/m3	UI
2112	702719007	10/28/2024	Tellurium-132	-6.13E+02	1.23E+03	0.00E+00	pCi/m3	U
2112	703169005	11/25/2024	Tellurium-132	1.02E+01	8.77E+00	0.00E+00	pCi/m3	UI
2112	706986005	12/24/2024	Tellurium-132	1.81E+00	4.19E+00	0.00E+00	pCi/m3	UI
2112	657104004	1/24/2024	Thallium-208	-7.02E-05	3.11E-04	1.03E-03	pCi/m3	U
2112	659797010	2/20/2024	Thallium-208	-1.18E-04	4.50E-04	1.28E-03	pCi/m3	U
2112	664161006	3/19/2024	Thallium-208	-7.63E-07	2.84E-04	9.30E-04	pCi/m3	U
2112	669419008	4/16/2024	Thallium-208	9.70E-05	4.93E-04	8.28E-04	pCi/m3	U
2112	674392010	5/13/2024	Thallium-208	2.74E-04	4.58E-04	1.43E-03	pCi/m3	U
2112	676203010	6/11/2024	Thallium-208	1.35E-04	3.95E-04	1.21E-03	pCi/m3	U
2112	682054003	7/8/2024	Thallium-208	4.29E-04	4.31E-04	8.07E-04	pCi/m3	U
2112	691730007	8/6/2024	Thallium-208	3.41E-04	3.35E-04	1.14E-03	pCi/m3	U
2112	691734001	8/27/2024	Thallium-208	6.47E-05	2.56E-04	7.94E-04	pCi/m3	U
2112	695577010	10/1/2024	Thallium-208	4.87E-04	2.62E-04	5.53E-04	pCi/m3	U
2112	702719007	10/28/2024	Thallium-208	3.42E-04	3.35E-04	8.60E-04	pCi/m3	U
2112	703169005	11/25/2024	Thallium-208	3.70E-04	3.42E-04	8.50E-04	pCi/m3	U
2112	706986005	12/24/2024	Thallium-208	4.02E-04	4.97E-04	6.73E-04	pCi/m3	U
2112	657104004	1/24/2024	Thorium-228	1.40E-03	6.95E-04	1.63E-03	pCi/m3	U
2112	659797010	2/20/2024	Thorium-228	1.15E-03	8.24E-04	1.79E-03	pCi/m3	U
2112	664161006	3/19/2024	Thorium-228	1.91E-03	7.10E-04	1.05E-03	pCi/m3	UI

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	669419008	4/16/2024	Thorium-228	1.27E-03	6.06E-04	1.71E-03	pCi/m3	U
2112	674392010	5/13/2024	Thorium-228	1.04E-03	9.40E-04	2.17E-03	pCi/m3	U
2112	676203010	6/11/2024	Thorium-228	2.73E-03	8.83E-04	9.75E-04	pCi/m3	
2112	682054003	7/8/2024	Thorium-228	1.86E-03	8.04E-04	1.82E-03	pCi/m3	UI
2112	691730007	8/6/2024	Thorium-228	9.68E-04	8.03E-04	1.19E-03	pCi/m3	U
2112	691734001	8/27/2024	Thorium-228	1.48E-03	6.24E-04	1.23E-03	pCi/m3	UI
2112	695577010	10/1/2024	Thorium-228	4.85E-04	4.79E-04	1.40E-03	pCi/m3	U
2112	702719007	10/28/2024	Thorium-228	4.64E-04	6.88E-04	1.94E-03	pCi/m3	U
2112	703169005	11/25/2024	Thorium-228	4.49E-04	8.28E-04	1.88E-03	pCi/m3	U
2112	706986005	12/24/2024	Thorium-228	1.57E-03	7.61E-04	9.18E-04	pCi/m3	UI
2112	657104004	1/24/2024	Thorium-230	2.85E-04	5.92E-04	1.90E-03	pCi/m3	U
2112	659797010	2/20/2024	Thorium-230	-1.63E-03	7.57E-04	2.21E-03	pCi/m3	U
2112	664161006	3/19/2024	Thorium-230	2.04E-04	7.09E-04	1.90E-03	pCi/m3	U
2112	669419008	4/16/2024	Thorium-230	1.40E-03	9.48E-04	2.18E-03	pCi/m3	U
2112	674392010	5/13/2024	Thorium-230	1.59E-03	9.37E-04	2.78E-03	pCi/m3	U
2112	676203010	6/11/2024	Thorium-230	3.39E-03	7.21E-04	1.60E-03	pCi/m3	
2112	682054003	7/8/2024	Thorium-230	1.64E-03	8.15E-04	2.02E-03	pCi/m3	U
2112	691730007	8/6/2024	Thorium-230	1.50E-03	9.73E-04	2.32E-03	pCi/m3	U
2112	691734001	8/27/2024	Thorium-230	7.42E-04	5.67E-04	1.48E-03	pCi/m3	U
2112	695577010	10/1/2024	Thorium-230	1.59E-03	8.69E-04	1.86E-03	pCi/m3	U
2112	702719007	10/28/2024	Thorium-230	4.76E-04	6.07E-04	2.10E-03	pCi/m3	U
2112	703169005	11/25/2024	Thorium-230	1.39E-04	6.56E-04	2.06E-03	pCi/m3	U
2112	706986005	12/24/2024	Thorium-230	-4.70E-04	4.92E-04	1.43E-03	pCi/m3	U
2112	657104004	1/24/2024	Thorium-232	7.99E-04	1.92E-03	4.31E-03	pCi/m3	U
2112	659797010	2/20/2024	Thorium-232	-8.70E-04	1.77E-03	5.40E-03	pCi/m3	U
2112	664161006	3/19/2024	Thorium-232	9.80E-04	1.85E-03	4.40E-03	pCi/m3	U
2112	669419008	4/16/2024	Thorium-232	1.28E-03	1.39E-03	3.89E-03	pCi/m3	U
2112	674392010	5/13/2024	Thorium-232	1.47E-03	2.48E-03	6.83E-03	pCi/m3	U
2112	676203010	6/11/2024	Thorium-232	1.84E-03	1.48E-03	5.37E-03	pCi/m3	U
2112	682054003	7/8/2024	Thorium-232	1.61E-03	1.44E-03	5.02E-03	pCi/m3	U
2112	691730007	8/6/2024	Thorium-232	1.20E-03	1.75E-03	5.09E-03	pCi/m3	U
2112	691734001	8/27/2024	Thorium-232	-3.50E-05	8.39E-04	2.79E-03	pCi/m3	U
2112	695577010	10/1/2024	Thorium-232	3.20E-03	1.64E-03	4.07E-03	pCi/m3	U
2112	702719007	10/28/2024	Thorium-232	3.58E-04	1.64E-03	5.27E-03	pCi/m3	U
2112	703169005	11/25/2024	Thorium-232	2.98E-03	1.75E-03	5.80E-03	pCi/m3	U
2112	706986005	12/24/2024	Thorium-232	6.35E-04	1.20E-03	4.01E-03	pCi/m3	U
2112	657104004	1/24/2024	Thorium-234	3.35E-03	1.22E-02	3.92E-02	pCi/m3	U
2112	659797010	2/20/2024	Thorium-234	1.73E-02	1.50E-02	2.27E-02	pCi/m3	U
2112	664161006	3/19/2024	Thorium-234	6.68E-04	8.25E-03	2.76E-02	pCi/m3	U
2112	669419008	4/16/2024	Thorium-234	8.42E-03	1.17E-02	2.36E-02	pCi/m3	U
2112	674392010	5/13/2024	Thorium-234	-2.25E-02	1.61E-02	5.19E-02	pCi/m3	U
2112	676203010	6/11/2024	Thorium-234	1.33E-03	1.79E-03	6.44E-03	pCi/m3	U
2112	682054003	7/8/2024	Thorium-234	2.42E-02	1.84E-02	3.81E-02	pCi/m3	U
2112	691730007	8/6/2024	Thorium-234	-8.47E-03	5.08E-03	1.70E-02	pCi/m3	U
2112	691734001	8/27/2024	Thorium-234	2.05E-02	9.43E-03	1.67E-02	pCi/m3	UI
2112	695577010	10/1/2024	Thorium-234	6.78E-03	5.33E-03	9.62E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	702719007	10/28/2024	Thorium-234	-1.88E-02	9.80E-03	3.12E-02	pCi/m3	U
2112	703169005	11/25/2024	Thorium-234	2.78E-02	2.55E-02	2.60E-02	pCi/m3	UI
2112	706986005	12/24/2024	Thorium-234	1.62E-02	1.09E-02	1.59E-02	pCi/m3	UI
2112	657104004	1/24/2024	Uranium-234	2.85E-04	5.92E-04	1.90E-03	pCi/m3	U
2112	659797010	2/20/2024	Uranium-234	-1.63E-03	7.57E-04	2.21E-03	pCi/m3	U
2112	664161006	3/19/2024	Uranium-234	2.04E-04	7.09E-04	1.90E-03	pCi/m3	U
2112	669419008	4/16/2024	Uranium-234	1.40E-03	9.48E-04	2.18E-03	pCi/m3	U
2112	674392010	5/13/2024	Uranium-234	1.59E-03	9.37E-04	2.78E-03	pCi/m3	U
2112	676203010	6/11/2024	Uranium-234	3.39E-03	7.21E-04	1.60E-03	pCi/m3	U
2112	682054003	7/8/2024	Uranium-234	1.64E-03	8.15E-04	2.02E-03	pCi/m3	U
2112	691730007	8/6/2024	Uranium-234	1.50E-03	9.73E-04	2.32E-03	pCi/m3	U
2112	691734001	8/27/2024	Uranium-234	7.42E-04	5.67E-04	1.48E-03	pCi/m3	U
2112	695577010	10/1/2024	Uranium-234	1.59E-03	8.69E-04	1.86E-03	pCi/m3	U
2112	702719007	10/28/2024	Uranium-234	4.76E-04	6.07E-04	2.10E-03	pCi/m3	U
2112	703169005	11/25/2024	Uranium-234	1.39E-04	6.56E-04	2.06E-03	pCi/m3	U
2112	706986005	12/24/2024	Uranium-234	-4.70E-04	4.92E-04	1.43E-03	pCi/m3	U
2112	657104004	1/24/2024	Zinc-65	-2.43E-04	6.95E-04	2.19E-03	pCi/m3	U
2112	659797010	2/20/2024	Zinc-65	-5.87E-04	6.87E-04	1.73E-03	pCi/m3	U
2112	664161006	3/19/2024	Zinc-65	-7.46E-04	5.61E-04	1.61E-03	pCi/m3	U
2112	669419008	4/16/2024	Zinc-65	-2.27E-04	7.35E-04	1.98E-03	pCi/m3	U
2112	674392010	5/13/2024	Zinc-65	2.00E-04	8.76E-04	2.95E-03	pCi/m3	U
2112	676203010	6/11/2024	Zinc-65	-1.21E-03	9.45E-04	2.54E-03	pCi/m3	U
2112	682054003	7/8/2024	Zinc-65	1.39E-04	9.54E-04	2.71E-03	pCi/m3	U
2112	691730007	8/6/2024	Zinc-65	-6.39E-04	8.11E-04	2.45E-03	pCi/m3	U
2112	691734001	8/27/2024	Zinc-65	1.77E-04	4.36E-04	1.38E-03	pCi/m3	U
2112	695577010	10/1/2024	Zinc-65	-5.22E-05	6.52E-04	2.13E-03	pCi/m3	U
2112	702719007	10/28/2024	Zinc-65	-8.72E-05	8.09E-04	2.69E-03	pCi/m3	U
2112	703169005	11/25/2024	Zinc-65	1.08E-03	6.98E-04	2.75E-03	pCi/m3	U
2112	706986005	12/24/2024	Zinc-65	-3.89E-04	5.03E-04	1.50E-03	pCi/m3	U
2112	657104004	1/24/2024	Zirconium-95	-5.09E-04	5.67E-04	1.79E-03	pCi/m3	U
2112	659797010	2/20/2024	Zirconium-95	-6.02E-04	7.77E-04	2.34E-03	pCi/m3	U
2112	664161006	3/19/2024	Zirconium-95	3.43E-04	5.50E-04	1.89E-03	pCi/m3	U
2112	669419008	4/16/2024	Zirconium-95	-1.10E-03	7.92E-04	2.31E-03	pCi/m3	U
2112	674392010	5/13/2024	Zirconium-95	-1.88E-03	1.11E-03	3.18E-03	pCi/m3	U
2112	676203010	6/11/2024	Zirconium-95	-1.44E-03	9.02E-04	2.53E-03	pCi/m3	U
2112	682054003	7/8/2024	Zirconium-95	-4.52E-04	7.55E-04	2.45E-03	pCi/m3	U
2112	691730007	8/6/2024	Zirconium-95	4.65E-04	1.20E-03	4.06E-03	pCi/m3	U
2112	691734001	8/27/2024	Zirconium-95	2.42E-04	5.90E-04	1.97E-03	pCi/m3	U
2112	695577010	10/1/2024	Zirconium-95	3.90E-04	6.15E-04	2.20E-03	pCi/m3	U
2112	702719007	10/28/2024	Zirconium-95	7.07E-04	9.79E-04	3.41E-03	pCi/m3	U
2112	703169005	11/25/2024	Zirconium-95	-9.61E-04	7.64E-04	2.19E-03	pCi/m3	U
2112	706986005	12/24/2024	Zirconium-95	-3.31E-04	5.73E-04	1.69E-03	pCi/m3	U
2115	657104005	1/23/2024	Actinium-228	1.47E-03	1.63E-03	4.40E-03	pCi/m3	U
2115	659797006	2/20/2024	Actinium-228	6.59E-04	1.64E-03	5.30E-03	pCi/m3	U
2115	664161010	3/18/2024	Actinium-228	5.32E-04	1.70E-03	5.18E-03	pCi/m3	U
2115	669419009	4/16/2024	Actinium-228	-1.77E-03	1.22E-03	3.72E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	674392006	5/13/2024	Actinium-228	-3.60E-04	1.35E-03	4.15E-03	pCi/m3	U
2115	676203007	6/11/2024	Actinium-228	-8.35E-04	1.42E-03	4.51E-03	pCi/m3	U
2115	682054004	7/8/2024	Actinium-228	-1.55E-04	1.13E-03	3.67E-03	pCi/m3	U
2115	691730001	8/5/2024	Actinium-228	3.90E-03	2.84E-03	9.63E-03	pCi/m3	U
2115	691734006	8/27/2024	Actinium-228	1.71E-03	1.02E-03	4.04E-03	pCi/m3	U
2115	695577011	10/2/2024	Actinium-228	-1.17E-03	1.96E-03	6.39E-03	pCi/m3	U
2115	702719006	10/28/2024	Actinium-228	4.52E-04	1.61E-03	3.75E-03	pCi/m3	U
2115	703169007	11/26/2024	Actinium-228	2.14E-03	1.42E-03	4.97E-03	pCi/m3	U
2115	706986009	12/25/2024	Actinium-228	-2.54E-04	1.38E-03	4.55E-03	pCi/m3	U
2115	657104005	1/23/2024	Americium-241	4.39E-04	5.66E-04	1.72E-03	pCi/m3	U
2115	659797006	2/20/2024	Americium-241	-1.75E-03	1.72E-03	4.66E-03	pCi/m3	U
2115	664161010	3/18/2024	Americium-241	1.21E-03	9.93E-04	3.40E-03	pCi/m3	U
2115	669419009	4/16/2024	Americium-241	-1.66E-03	6.54E-04	1.80E-03	pCi/m3	U
2115	674392006	5/13/2024	Americium-241	-4.71E-04	1.22E-03	4.12E-03	pCi/m3	U
2115	676203007	6/11/2024	Americium-241	4.57E-04	9.30E-04	3.34E-03	pCi/m3	U
2115	682054004	7/8/2024	Americium-241	2.81E-04	6.20E-04	2.13E-03	pCi/m3	U
2115	691730001	8/5/2024	Americium-241	-2.04E-04	4.56E-04	1.38E-03	pCi/m3	U
2115	691734006	8/27/2024	Americium-241	2.84E-04	4.38E-04	1.51E-03	pCi/m3	U
2115	695577011	10/2/2024	Americium-241	3.77E-04	2.67E-04	8.90E-04	pCi/m3	U
2115	702719006	10/28/2024	Americium-241	1.17E-03	5.78E-04	1.16E-03	pCi/m3	UI
2115	703169007	11/26/2024	Americium-241	1.16E-03	9.59E-04	3.53E-03	pCi/m3	U
2115	706986009	12/25/2024	Americium-241	3.23E-04	1.38E-03	4.36E-03	pCi/m3	U
2115	657104005	1/23/2024	Antimony-124	-3.63E-05	6.29E-04	2.10E-03	pCi/m3	U
2115	659797006	2/20/2024	Antimony-124	1.64E-03	8.78E-04	3.77E-03	pCi/m3	U
2115	664161010	3/18/2024	Antimony-124	-1.45E-03	8.96E-04	1.75E-03	pCi/m3	U
2115	669419009	4/16/2024	Antimony-124	-5.62E-04	1.45E-03	4.19E-03	pCi/m3	U
2115	674392006	5/13/2024	Antimony-124	2.22E-03	1.19E-03	5.12E-03	pCi/m3	U
2115	676203007	6/11/2024	Antimony-124	-1.27E-03	1.28E-03	3.50E-03	pCi/m3	U
2115	682054004	7/8/2024	Antimony-124	-3.27E-04	7.04E-04	2.06E-03	pCi/m3	U
2115	691730001	8/5/2024	Antimony-124	-1.33E-03	2.89E-03	8.98E-03	pCi/m3	U
2115	691734006	8/27/2024	Antimony-124	-1.40E-03	1.04E-03	2.56E-03	pCi/m3	U
2115	695577011	10/2/2024	Antimony-124	7.61E-04	1.46E-03	5.27E-03	pCi/m3	U
2115	702719006	10/28/2024	Antimony-124	-9.90E-04	1.01E-03	2.78E-03	pCi/m3	U
2115	703169007	11/26/2024	Antimony-124	3.02E-03	1.24E-03	5.28E-03	pCi/m3	U
2115	706986009	12/25/2024	Antimony-124	-4.62E-04	1.10E-03	3.28E-03	pCi/m3	U
2115	657104005	1/23/2024	Antimony-125	1.85E-03	9.16E-04	1.91E-03	pCi/m3	U
2115	659797006	2/20/2024	Antimony-125	-1.90E-05	7.90E-04	2.50E-03	pCi/m3	U
2115	664161010	3/18/2024	Antimony-125	-8.54E-04	6.36E-04	1.88E-03	pCi/m3	U
2115	669419009	4/16/2024	Antimony-125	3.29E-04	6.42E-04	2.21E-03	pCi/m3	U
2115	674392006	5/13/2024	Antimony-125	7.17E-04	6.33E-04	2.20E-03	pCi/m3	U
2115	676203007	6/11/2024	Antimony-125	-2.48E-04	6.04E-04	1.94E-03	pCi/m3	U
2115	682054004	7/8/2024	Antimony-125	3.11E-04	5.44E-04	1.90E-03	pCi/m3	U
2115	691730001	8/5/2024	Antimony-125	-2.89E-04	1.10E-03	3.45E-03	pCi/m3	U
2115	691734006	8/27/2024	Antimony-125	6.95E-04	5.81E-04	2.08E-03	pCi/m3	U
2115	695577011	10/2/2024	Antimony-125	1.43E-03	8.47E-04	2.26E-03	pCi/m3	U
2115	702719006	10/28/2024	Antimony-125	-4.75E-04	5.41E-04	1.55E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	703169007	11/26/2024	Antimony-125	-8.95E-05	5.66E-04	1.78E-03	pCi/m3	U
2115	706986009	12/25/2024	Antimony-125	4.95E-04	6.61E-04	2.34E-03	pCi/m3	U
2115	657104005	1/23/2024	Barium-140	-3.47E-04	5.79E-03	1.83E-02	pCi/m3	U
2115	659797006	2/20/2024	Barium-140	1.60E-02	9.99E-03	1.92E-02	pCi/m3	U
2115	664161010	3/18/2024	Barium-140	-9.55E-04	5.47E-03	1.75E-02	pCi/m3	U
2115	669419009	4/16/2024	Barium-140	2.92E-02	1.14E-02	4.20E-02	pCi/m3	U
2115	674392006	5/13/2024	Barium-140	-2.71E-02	3.36E-02	8.92E-02	pCi/m3	U
2115	676203007	6/11/2024	Barium-140	-5.99E-03	8.24E-03	2.48E-02	pCi/m3	U
2115	682054004	7/8/2024	Barium-140	-2.10E-03	1.26E-02	4.14E-02	pCi/m3	U
2115	691730001	8/5/2024	Barium-140	-2.34E-01	2.04E-01	5.81E-01	pCi/m3	U
2115	691734006	8/27/2024	Barium-140	4.95E-02	2.99E-02	1.09E-01	pCi/m3	U
2115	695577011	10/2/2024	Barium-140	2.60E-02	1.66E-02	5.98E-02	pCi/m3	U
2115	702719006	10/28/2024	Barium-140	1.47E-02	3.23E-02	1.09E-01	pCi/m3	U
2115	703169007	11/26/2024	Barium-140	9.63E-03	8.55E-03	3.00E-02	pCi/m3	U
2115	706986009	12/25/2024	Barium-140	-7.93E-03	9.72E-03	2.95E-02	pCi/m3	U
2115	657104005	1/23/2024	Beryllium-7	6.50E-02	6.27E-03	6.53E-03	pCi/m3	
2115	659797006	2/20/2024	Beryllium-7	9.45E-02	9.66E-03	1.13E-02	pCi/m3	
2115	664161010	3/18/2024	Beryllium-7	1.10E-01	9.16E-03	7.75E-03	pCi/m3	
2115	669419009	4/16/2024	Beryllium-7	1.10E-01	1.08E-02	1.27E-02	pCi/m3	
2115	674392006	5/13/2024	Beryllium-7	1.27E-01	1.07E-02	9.52E-03	pCi/m3	
2115	676203007	6/11/2024	Beryllium-7	1.27E-01	9.22E-03	8.64E-03	pCi/m3	
2115	682054004	7/8/2024	Beryllium-7	1.25E-01	9.07E-03	8.66E-03	pCi/m3	
2115	691730001	8/5/2024	Beryllium-7	8.40E-02	2.39E-02	4.07E-02	pCi/m3	
2115	691734006	8/27/2024	Beryllium-7	1.30E-01	1.17E-02	1.10E-02	pCi/m3	
2115	695577011	10/2/2024	Beryllium-7	8.73E-02	1.12E-02	1.16E-02	pCi/m3	
2115	702719006	10/28/2024	Beryllium-7	1.20E-01	9.75E-03	1.14E-02	pCi/m3	
2115	703169007	11/26/2024	Beryllium-7	6.22E-02	8.23E-03	9.06E-03	pCi/m3	
2115	706986009	12/25/2024	Beryllium-7	8.49E-02	9.60E-03	1.22E-02	pCi/m3	
2115	650210021	1/2/2024	BETA	4.09E-02	1.72E-03	1.34E-03	pCi/m3	
2115	650994011	1/8/2024	BETA	4.64E-02	2.08E-03	1.72E-03	pCi/m3	
2115	651848009	1/17/2024	BETA	4.74E-02	1.72E-03	1.18E-03	pCi/m3	
2115	652268009	1/23/2024	BETA	4.56E-02	2.19E-03	1.90E-03	pCi/m3	
2115	653178017	1/30/2024	BETA	1.38E-02	1.30E-03	1.91E-03	pCi/m3	
2115	654187013	2/6/2024	BETA	4.58E-02	1.98E-03	1.52E-03	pCi/m3	
2115	655008009	2/13/2024	BETA	2.40E-02	1.26E-03	1.25E-03	pCi/m3	
2115	655819013	2/20/2024	BETA	3.01E-02	1.53E-03	1.41E-03	pCi/m3	
2115	656511011	2/27/2024	BETA	3.41E-02	1.63E-03	1.37E-03	pCi/m3	
2115	657416009	3/5/2024	BETA	2.54E-02	1.46E-03	1.47E-03	pCi/m3	
2115	658450009	3/12/2024	BETA	2.00E-02	1.24E-03	1.27E-03	pCi/m3	
2115	659313019	3/18/2024	BETA	2.70E-02	1.58E-03	1.58E-03	pCi/m3	
2115	660083013	3/27/2024	BETA	2.90E-02	1.33E-03	1.02E-03	pCi/m3	
2115	660793017	4/2/2024	BETA	3.49E-02	1.75E-03	1.54E-03	pCi/m3	
2115	662052009	4/9/2024	BETA	1.98E-02	1.27E-03	1.39E-03	pCi/m3	
2115	662074023	4/16/2024	BETA	3.41E-02	1.63E-03	1.35E-03	pCi/m3	
2115	664092013	4/23/2024	BETA	2.90E-02	1.46E-03	1.28E-03	pCi/m3	
2115	665204003	4/30/2024	BETA	3.48E-02	1.65E-03	1.32E-03	pCi/m3	

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	666121001	5/6/2024	BETA	2.68E-02	1.53E-03	1.48E-03	pCi/m3	
2115	667159011	5/13/2024	BETA	2.44E-02	1.38E-03	1.30E-03	pCi/m3	
2115	668220012	5/20/2024	BETA	2.75E-02	1.44E-03	1.27E-03	pCi/m3	
2115	669062009	5/28/2024	BETA	3.51E-02	1.55E-03	1.22E-03	pCi/m3	
2115	669755017	6/3/2024	BETA	2.68E-02	1.61E-03	1.59E-03	pCi/m3	
2115	670837015	6/11/2024	BETA	2.02E-02	1.07E-03	9.65E-04	pCi/m3	
2115	671897011	6/18/2024	BETA	3.88E-02	1.58E-03	1.16E-03	pCi/m3	
2115	672773011	6/25/2024	BETA	4.00E-02	1.56E-03	1.11E-03	pCi/m3	
2115	673676009	7/2/2024	BETA	3.17E-02	1.41E-03	1.11E-03	pCi/m3	
2115	674336007	7/8/2024	BETA	2.55E-02	1.38E-03	1.27E-03	pCi/m3	
2115	675686005	7/15/2024	BETA	3.58E-02	1.49E-03	1.08E-03	pCi/m3	
2115	676802019	7/23/2024	BETA	2.20E-02	1.09E-03	9.46E-04	pCi/m3	
2115	677970009	7/30/2024	BETA	2.84E-02	1.36E-03	1.18E-03	pCi/m3	
2115	679202001	8/5/2024	BETA	3.10E-02	1.59E-03	1.40E-03	pCi/m3	
2115	680237017	8/13/2024	BETA	4.43E-02	1.51E-03	9.52E-04	pCi/m3	
2115	681488009	8/20/2024	BETA	3.52E-02	1.50E-03	1.17E-03	pCi/m3	
2115	682604011	8/27/2024	BETA	5.79E-02	1.86E-03	1.13E-03	pCi/m3	
2115	684664007	9/10/2024	BETA	5.66E-02	1.94E-03	1.20E-03	pCi/m3	
2115	685842013	9/17/2024	BETA	3.49E-02	3.23E-03	1.34E-03	pCi/m3	
2115	686976011	9/23/2024	BETA	3.79E-02	1.62E-03	1.22E-03	pCi/m3	
2115	687851021	10/2/2024	BETA	2.75E-02	1.10E-03	7.94E-04	pCi/m3	
2115	689079015	10/8/2024	BETA	5.03E-02	1.80E-03	1.13E-03	pCi/m3	
2115	690093005	10/16/2024	BETA	2.87E-02	1.25E-03	9.28E-04	pCi/m3	
2115	691165001	10/22/2024	BETA	6.45E-03	7.84E-04	1.33E-03	pCi/m3	M
2115	692327015	10/28/2024	BETA	6.81E-02	2.27E-03	1.35E-03	pCi/m3	
2115	693531019	11/5/2024	BETA	3.54E-02	1.50E-03	1.14E-03	pCi/m3	
2115	694911023	11/13/2024	BETA	3.65E-02	1.49E-03	1.06E-03	pCi/m3	
2115	696166013	11/19/2024	BETA	3.79E-02	1.78E-03	1.54E-03	pCi/m3	
2115	697367013	11/26/2024	BETA	3.29E-02	1.50E-03	1.33E-03	pCi/m3	
2115	698165001	12/4/2024	BETA	4.86E-02	1.71E-03	1.10E-03	pCi/m3	
2115	699433023	12/10/2024	BETA	4.37E-02	1.87E-03	1.47E-03	pCi/m3	
2115	700752007	12/17/2024	BETA	3.98E-02	1.86E-03	1.53E-03	pCi/m3	
2115	701911018	12/25/2024	BETA	3.80E-02	1.85E-03	1.67E-03	pCi/m3	
2115	657104005	1/23/2024	Bismuth-214	4.46E-04	6.24E-04	2.10E-03	pCi/m3	U
2115	659797006	2/20/2024	Bismuth-214	9.31E-04	1.03E-03	1.90E-03	pCi/m3	U
2115	664161010	3/18/2024	Bismuth-214	5.00E-04	8.12E-04	2.56E-03	pCi/m3	U
2115	669419009	4/16/2024	Bismuth-214	8.93E-05	6.48E-04	2.13E-03	pCi/m3	U
2115	674392006	5/13/2024	Bismuth-214	1.59E-03	6.89E-04	2.17E-03	pCi/m3	U
2115	676203007	6/11/2024	Bismuth-214	4.00E-04	7.04E-04	2.19E-03	pCi/m3	U
2115	682054004	7/8/2024	Bismuth-214	2.21E-03	7.31E-04	2.04E-03	pCi/m3	UI
2115	691730001	8/5/2024	Bismuth-214	2.16E-03	1.70E-03	4.51E-03	pCi/m3	U
2115	691734006	8/27/2024	Bismuth-214	1.68E-04	6.75E-04	2.22E-03	pCi/m3	U
2115	695577011	10/2/2024	Bismuth-214	5.79E-04	8.97E-04	3.08E-03	pCi/m3	U
2115	702719006	10/28/2024	Bismuth-214	3.23E-04	9.40E-04	1.43E-03	pCi/m3	U
2115	703169007	11/26/2024	Bismuth-214	8.11E-04	6.80E-04	2.13E-03	pCi/m3	U
2115	706986009	12/25/2024	Bismuth-214	-2.19E-04	6.97E-04	2.17E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	657104005	1/23/2024	Cerium-141	-6.21E-04	4.98E-04	1.58E-03	pCi/m3	U
2115	659797006	2/20/2024	Cerium-141	-5.13E-04	5.76E-04	1.86E-03	pCi/m3	U
2115	664161010	3/18/2024	Cerium-141	1.25E-04	5.76E-04	1.90E-03	pCi/m3	U
2115	669419009	4/16/2024	Cerium-141	-6.95E-04	6.60E-04	1.96E-03	pCi/m3	U
2115	674392006	5/13/2024	Cerium-141	4.34E-03	2.06E-03	2.36E-03	pCi/m3	UI
2115	676203007	6/11/2024	Cerium-141	-2.31E-03	6.12E-04	1.47E-03	pCi/m3	U
2115	682054004	7/8/2024	Cerium-141	9.76E-04	7.10E-04	2.45E-03	pCi/m3	U
2115	691730001	8/5/2024	Cerium-141	2.62E-04	5.71E-03	9.01E-03	pCi/m3	U
2115	691734006	8/27/2024	Cerium-141	-4.50E-04	1.08E-03	3.20E-03	pCi/m3	U
2115	695577011	10/2/2024	Cerium-141	-5.67E-04	8.67E-04	2.83E-03	pCi/m3	U
2115	702719006	10/28/2024	Cerium-141	1.90E-03	1.29E-03	2.77E-03	pCi/m3	U
2115	703169007	11/26/2024	Cerium-141	-3.45E-04	5.75E-04	1.61E-03	pCi/m3	U
2115	706986009	12/25/2024	Cerium-141	1.05E-03	1.26E-03	2.44E-03	pCi/m3	U
2115	657104005	1/23/2024	Cerium-144	1.49E-03	8.74E-04	3.21E-03	pCi/m3	U
2115	659797006	2/20/2024	Cerium-144	-3.23E-04	1.17E-03	3.90E-03	pCi/m3	U
2115	664161010	3/18/2024	Cerium-144	4.48E-04	1.23E-03	4.09E-03	pCi/m3	U
2115	669419009	4/16/2024	Cerium-144	-2.85E-03	1.07E-03	2.80E-03	pCi/m3	U
2115	674392006	5/13/2024	Cerium-144	-2.47E-05	1.06E-03	3.41E-03	pCi/m3	U
2115	676203007	6/11/2024	Cerium-144	-5.17E-04	1.01E-03	3.25E-03	pCi/m3	U
2115	682054004	7/8/2024	Cerium-144	-2.59E-05	1.02E-03	3.32E-03	pCi/m3	U
2115	691730001	8/5/2024	Cerium-144	-1.52E-04	2.14E-03	7.16E-03	pCi/m3	U
2115	691734006	8/27/2024	Cerium-144	-5.91E-04	1.09E-03	3.39E-03	pCi/m3	U
2115	695577011	10/2/2024	Cerium-144	8.82E-04	1.34E-03	4.63E-03	pCi/m3	U
2115	702719006	10/28/2024	Cerium-144	1.61E-03	1.34E-03	3.15E-03	pCi/m3	U
2115	703169007	11/26/2024	Cerium-144	5.96E-04	8.47E-04	2.86E-03	pCi/m3	U
2115	706986009	12/25/2024	Cerium-144	1.40E-03	1.29E-03	4.44E-03	pCi/m3	U
2115	657104005	1/23/2024	Cesium-134	-5.05E-05	2.44E-04	8.01E-04	pCi/m3	U
2115	659797006	2/20/2024	Cesium-134	3.57E-04	3.71E-04	1.31E-03	pCi/m3	U
2115	664161010	3/18/2024	Cesium-134	1.99E-04	3.15E-04	1.13E-03	pCi/m3	U
2115	669419009	4/16/2024	Cesium-134	-3.25E-04	2.49E-04	6.31E-04	pCi/m3	U
2115	674392006	5/13/2024	Cesium-134	-2.51E-05	3.23E-04	1.03E-03	pCi/m3	U
2115	676203007	6/11/2024	Cesium-134	2.56E-04	3.24E-04	1.16E-03	pCi/m3	U
2115	682054004	7/8/2024	Cesium-134	5.10E-05	2.96E-04	9.74E-04	pCi/m3	U
2115	691730001	8/5/2024	Cesium-134	-1.81E-04	7.51E-04	2.43E-03	pCi/m3	U
2115	691734006	8/27/2024	Cesium-134	-2.38E-04	3.00E-04	9.49E-04	pCi/m3	U
2115	695577011	10/2/2024	Cesium-134	4.87E-06	3.89E-04	1.30E-03	pCi/m3	U
2115	702719006	10/28/2024	Cesium-134	1.39E-04	2.45E-04	8.66E-04	pCi/m3	U
2115	703169007	11/26/2024	Cesium-134	-8.52E-05	2.90E-04	9.00E-04	pCi/m3	U
2115	706986009	12/25/2024	Cesium-134	3.80E-04	3.25E-04	1.18E-03	pCi/m3	U
2115	657104005	1/23/2024	Cesium-137	9.65E-05	2.05E-04	7.21E-04	pCi/m3	U
2115	659797006	2/20/2024	Cesium-137	-4.72E-04	3.26E-04	9.51E-04	pCi/m3	U
2115	664161010	3/18/2024	Cesium-137	-5.01E-04	2.77E-04	6.91E-04	pCi/m3	U
2115	669419009	4/16/2024	Cesium-137	2.92E-04	2.32E-04	7.96E-04	pCi/m3	U
2115	674392006	5/13/2024	Cesium-137	1.69E-06	2.67E-04	8.74E-04	pCi/m3	U
2115	676203007	6/11/2024	Cesium-137	3.76E-04	2.12E-04	8.23E-04	pCi/m3	U
2115	682054004	7/8/2024	Cesium-137	-2.90E-04	2.60E-04	7.10E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	691730001	8/5/2024	Cesium-137	-5.45E-04	5.74E-04	1.51E-03	pCi/m3	U
2115	691734006	8/27/2024	Cesium-137	5.15E-04	2.64E-04	9.56E-04	pCi/m3	U
2115	695577011	10/2/2024	Cesium-137	2.15E-04	2.93E-04	1.06E-03	pCi/m3	U
2115	702719006	10/28/2024	Cesium-137	-7.32E-05	2.03E-04	6.24E-04	pCi/m3	U
2115	703169007	11/26/2024	Cesium-137	2.32E-04	2.64E-04	9.24E-04	pCi/m3	U
2115	706986009	12/25/2024	Cesium-137	-4.31E-04	3.12E-04	8.43E-04	pCi/m3	U
2115	657104005	1/23/2024	Chromium-51	-3.43E-03	3.86E-03	1.19E-02	pCi/m3	U
2115	659797006	2/20/2024	Chromium-51	-7.09E-04	4.03E-03	1.29E-02	pCi/m3	U
2115	664161010	3/18/2024	Chromium-51	-1.61E-03	4.06E-03	1.34E-02	pCi/m3	U
2115	669419009	4/16/2024	Chromium-51	1.41E-02	8.10E-03	1.61E-02	pCi/m3	U
2115	674392006	5/13/2024	Chromium-51	-6.36E-03	7.51E-03	2.32E-02	pCi/m3	U
2115	676203007	6/11/2024	Chromium-51	2.87E-04	4.63E-03	1.59E-02	pCi/m3	U
2115	682054004	7/8/2024	Chromium-51	8.06E-03	5.48E-03	2.01E-02	pCi/m3	U
2115	691730001	8/5/2024	Chromium-51	-1.62E-02	3.21E-02	1.02E-01	pCi/m3	U
2115	691734006	8/27/2024	Chromium-51	6.70E-04	8.32E-03	2.82E-02	pCi/m3	U
2115	695577011	10/2/2024	Chromium-51	1.24E-02	9.60E-03	2.72E-02	pCi/m3	U
2115	702719006	10/28/2024	Chromium-51	-7.38E-03	7.86E-03	2.51E-02	pCi/m3	U
2115	703169007	11/26/2024	Chromium-51	-8.50E-03	4.35E-03	1.21E-02	pCi/m3	U
2115	706986009	12/25/2024	Chromium-51	6.51E-03	6.27E-03	2.26E-02	pCi/m3	U
2115	657104005	1/23/2024	Cobalt-57	8.77E-05	1.22E-04	4.28E-04	pCi/m3	U
2115	659797006	2/20/2024	Cobalt-57	-5.89E-05	1.61E-04	5.36E-04	pCi/m3	U
2115	664161010	3/18/2024	Cobalt-57	3.60E-04	1.99E-04	4.69E-04	pCi/m3	U
2115	669419009	4/16/2024	Cobalt-57	-2.87E-04	1.57E-04	4.55E-04	pCi/m3	U
2115	674392006	5/13/2024	Cobalt-57	-2.13E-04	1.58E-04	4.55E-04	pCi/m3	U
2115	676203007	6/11/2024	Cobalt-57	-1.23E-04	1.20E-04	3.76E-04	pCi/m3	U
2115	682054004	7/8/2024	Cobalt-57	-1.51E-04	1.28E-04	3.92E-04	pCi/m3	U
2115	691730001	8/5/2024	Cobalt-57	1.77E-04	2.69E-04	9.33E-04	pCi/m3	U
2115	691734006	8/27/2024	Cobalt-57	1.05E-04	1.28E-04	4.34E-04	pCi/m3	U
2115	695577011	10/2/2024	Cobalt-57	2.14E-05	1.63E-04	5.53E-04	pCi/m3	U
2115	702719006	10/28/2024	Cobalt-57	-8.70E-05	1.26E-04	3.93E-04	pCi/m3	U
2115	703169007	11/26/2024	Cobalt-57	1.93E-05	1.08E-04	3.56E-04	pCi/m3	U
2115	706986009	12/25/2024	Cobalt-57	-8.79E-05	1.63E-04	5.12E-04	pCi/m3	U
2115	657104005	1/23/2024	Cobalt-58	1.44E-04	3.20E-04	1.12E-03	pCi/m3	U
2115	659797006	2/20/2024	Cobalt-58	4.17E-04	4.14E-04	1.40E-03	pCi/m3	U
2115	664161010	3/18/2024	Cobalt-58	3.48E-04	3.99E-04	1.46E-03	pCi/m3	U
2115	669419009	4/16/2024	Cobalt-58	-2.91E-04	3.65E-04	1.03E-03	pCi/m3	U
2115	674392006	5/13/2024	Cobalt-58	9.91E-04	4.41E-04	1.78E-03	pCi/m3	U
2115	676203007	6/11/2024	Cobalt-58	2.84E-04	3.67E-04	1.33E-03	pCi/m3	U
2115	682054004	7/8/2024	Cobalt-58	4.92E-04	3.38E-04	1.25E-03	pCi/m3	U
2115	691730001	8/5/2024	Cobalt-58	-2.43E-03	1.35E-03	3.77E-03	pCi/m3	U
2115	691734006	8/27/2024	Cobalt-58	1.44E-03	6.32E-04	1.41E-03	pCi/m3	U
2115	695577011	10/2/2024	Cobalt-58	1.07E-03	4.91E-04	1.96E-03	pCi/m3	U
2115	702719006	10/28/2024	Cobalt-58	-1.27E-04	4.36E-04	1.44E-03	pCi/m3	U
2115	703169007	11/26/2024	Cobalt-58	5.80E-04	3.75E-04	1.33E-03	pCi/m3	U
2115	706986009	12/25/2024	Cobalt-58	-2.37E-04	4.62E-04	1.35E-03	pCi/m3	U
2115	657104005	1/23/2024	Cobalt-60	2.99E-04	2.83E-04	1.04E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	659797006	2/20/2024	Cobalt-60	-5.28E-05	4.09E-04	1.34E-03	pCi/m3	U
2115	664161010	3/18/2024	Cobalt-60	4.79E-04	3.02E-04	1.22E-03	pCi/m3	U
2115	669419009	4/16/2024	Cobalt-60	2.80E-04	2.92E-04	1.09E-03	pCi/m3	U
2115	674392006	5/13/2024	Cobalt-60	6.73E-04	3.63E-04	1.45E-03	pCi/m3	U
2115	676203007	6/11/2024	Cobalt-60	-1.15E-04	3.10E-04	9.88E-04	pCi/m3	U
2115	682054004	7/8/2024	Cobalt-60	9.66E-05	1.99E-04	7.16E-04	pCi/m3	U
2115	691730001	8/5/2024	Cobalt-60	-4.47E-04	7.84E-04	2.53E-03	pCi/m3	U
2115	691734006	8/27/2024	Cobalt-60	-5.79E-05	2.34E-04	7.27E-04	pCi/m3	U
2115	695577011	10/2/2024	Cobalt-60	8.42E-04	7.95E-04	1.85E-03	pCi/m3	U
2115	702719006	10/28/2024	Cobalt-60	4.18E-04	2.48E-04	9.20E-04	pCi/m3	U
2115	703169007	11/26/2024	Cobalt-60	1.34E-04	2.80E-04	9.95E-04	pCi/m3	U
2115	706986009	12/25/2024	Cobalt-60	-7.70E-04	4.27E-04	1.12E-03	pCi/m3	U
2115	657104005	1/23/2024	Iron-59	-7.20E-05	5.92E-04	1.91E-03	pCi/m3	U
2115	659797006	2/20/2024	Iron-59	1.06E-03	8.91E-04	3.38E-03	pCi/m3	U
2115	664161010	3/18/2024	Iron-59	-1.03E-03	8.87E-04	2.38E-03	pCi/m3	U
2115	669419009	4/16/2024	Iron-59	2.66E-04	1.22E-03	4.17E-03	pCi/m3	U
2115	674392006	5/13/2024	Iron-59	-1.38E-03	1.26E-03	3.45E-03	pCi/m3	U
2115	676203007	6/11/2024	Iron-59	9.84E-04	1.21E-03	4.26E-03	pCi/m3	U
2115	682054004	7/8/2024	Iron-59	-6.19E-04	8.86E-04	2.76E-03	pCi/m3	U
2115	691730001	8/5/2024	Iron-59	1.00E-03	3.66E-03	1.24E-02	pCi/m3	U
2115	691734006	8/27/2024	Iron-59	4.31E-04	1.42E-03	4.82E-03	pCi/m3	U
2115	695577011	10/2/2024	Iron-59	3.16E-04	1.41E-03	4.76E-03	pCi/m3	U
2115	702719006	10/28/2024	Iron-59	-1.98E-03	1.33E-03	3.53E-03	pCi/m3	U
2115	703169007	11/26/2024	Iron-59	3.90E-04	9.02E-04	3.12E-03	pCi/m3	U
2115	706986009	12/25/2024	Iron-59	-2.86E-03	1.23E-03	3.01E-03	pCi/m3	U
2115	657104005	1/23/2024	Lanthanum-140	-6.23E-04	2.21E-03	6.73E-03	pCi/m3	U
2115	659797006	2/20/2024	Lanthanum-140	-2.60E-03	1.81E-03	4.15E-03	pCi/m3	U
2115	664161010	3/18/2024	Lanthanum-140	-1.21E-03	2.89E-03	9.06E-03	pCi/m3	U
2115	669419009	4/16/2024	Lanthanum-140	1.00E-03	4.60E-03	1.55E-02	pCi/m3	U
2115	674392006	5/13/2024	Lanthanum-140	-2.39E-02	1.14E-02	2.50E-02	pCi/m3	U
2115	676203007	6/11/2024	Lanthanum-140	-4.71E-03	3.75E-03	9.59E-03	pCi/m3	U
2115	682054004	7/8/2024	Lanthanum-140	-4.55E-03	3.40E-03	7.10E-03	pCi/m3	U
2115	691730001	8/5/2024	Lanthanum-140	3.61E-02	6.47E-02	2.28E-01	pCi/m3	U
2115	691734006	8/27/2024	Lanthanum-140	-1.02E-02	1.13E-02	3.32E-02	pCi/m3	U
2115	695577011	10/2/2024	Lanthanum-140	-1.10E-02	6.17E-03	1.24E-02	pCi/m3	U
2115	702719006	10/28/2024	Lanthanum-140	9.68E-03	1.20E-02	4.51E-02	pCi/m3	U
2115	703169007	11/26/2024	Lanthanum-140	2.54E-03	3.79E-03	1.39E-02	pCi/m3	U
2115	706986009	12/25/2024	Lanthanum-140	2.65E-03	4.63E-03	1.65E-02	pCi/m3	U
2115	657104005	1/23/2024	Lead-210	4.46E-02	2.33E-02	3.34E-02	pCi/m3	UI
2115	659797006	2/20/2024	Lead-210	8.60E-02	5.69E-02	1.95E-01	pCi/m3	U
2115	664161010	3/18/2024	Lead-210	6.61E-03	3.23E-02	1.04E-01	pCi/m3	U
2115	669419009	4/16/2024	Lead-210	4.54E-02	3.65E-02	6.05E-02	pCi/m3	U
2115	674392006	5/13/2024	Lead-210	5.46E-02	6.02E-02	2.05E-01	pCi/m3	U
2115	676203007	6/11/2024	Lead-210	9.91E-02	6.62E-02	9.10E-02	pCi/m3	UI
2115	682054004	7/8/2024	Lead-210	-3.42E-03	2.23E-02	7.06E-02	pCi/m3	U
2115	691730001	8/5/2024	Lead-210	2.00E-02	5.63E-03	7.91E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	691734006	8/27/2024	Lead-210	8.22E-03	9.98E-03	3.49E-02	pCi/m3	U
2115	695577011	10/2/2024	Lead-210	3.07E-02	3.50E-03	3.99E-03	pCi/m3	
2115	702719006	10/28/2024	Lead-210	5.55E-02	1.44E-02	2.37E-02	pCi/m3	
2115	703169007	11/26/2024	Lead-210	5.88E-02	4.53E-02	1.69E-01	pCi/m3	U
2115	706986009	12/25/2024	Lead-210	3.00E-02	7.54E-02	2.38E-01	pCi/m3	U
2115	657104005	1/23/2024	Lead-212	9.25E-04	5.33E-04	1.40E-03	pCi/m3	U
2115	659797006	2/20/2024	Lead-212	1.02E-03	7.35E-04	2.02E-03	pCi/m3	U
2115	664161010	3/18/2024	Lead-212	9.42E-04	7.44E-04	1.77E-03	pCi/m3	U
2115	669419009	4/16/2024	Lead-212	1.16E-03	5.83E-04	1.81E-03	pCi/m3	U
2115	674392006	5/13/2024	Lead-212	1.54E-03	7.26E-04	9.98E-04	pCi/m3	UI
2115	676203007	6/11/2024	Lead-212	1.21E-03	4.56E-04	1.48E-03	pCi/m3	U
2115	682054004	7/8/2024	Lead-212	1.90E-03	6.64E-04	1.34E-03	pCi/m3	UI
2115	691730001	8/5/2024	Lead-212	1.33E-03	1.27E-03	3.18E-03	pCi/m3	U
2115	691734006	8/27/2024	Lead-212	1.58E-04	6.39E-04	1.11E-03	pCi/m3	U
2115	695577011	10/2/2024	Lead-212	1.50E-03	7.86E-04	1.88E-03	pCi/m3	U
2115	702719006	10/28/2024	Lead-212	1.24E-03	4.52E-04	1.34E-03	pCi/m3	U
2115	703169007	11/26/2024	Lead-212	8.43E-04	5.01E-04	1.41E-03	pCi/m3	U
2115	706986009	12/25/2024	Lead-212	5.85E-04	9.26E-04	1.87E-03	pCi/m3	U
2115	657104005	1/23/2024	Lead-214	7.81E-04	6.96E-04	1.67E-03	pCi/m3	U
2115	659797006	2/20/2024	Lead-214	1.50E-03	1.11E-03	2.33E-03	pCi/m3	U
2115	664161010	3/18/2024	Lead-214	4.85E-04	6.02E-04	2.11E-03	pCi/m3	U
2115	669419009	4/16/2024	Lead-214	4.31E-04	5.56E-04	1.83E-03	pCi/m3	U
2115	674392006	5/13/2024	Lead-214	-7.67E-04	5.81E-04	1.61E-03	pCi/m3	U
2115	676203007	6/11/2024	Lead-214	9.28E-04	1.12E-03	2.28E-03	pCi/m3	U
2115	682054004	7/8/2024	Lead-214	-3.41E-04	5.90E-04	1.78E-03	pCi/m3	U
2115	691730001	8/5/2024	Lead-214	3.51E-03	1.99E-03	4.68E-03	pCi/m3	U
2115	691734006	8/27/2024	Lead-214	5.11E-04	7.10E-04	1.84E-03	pCi/m3	U
2115	695577011	10/2/2024	Lead-214	6.15E-05	8.98E-04	2.53E-03	pCi/m3	U
2115	702719006	10/28/2024	Lead-214	3.37E-04	7.80E-04	1.63E-03	pCi/m3	U
2115	703169007	11/26/2024	Lead-214	8.65E-04	6.61E-04	1.72E-03	pCi/m3	U
2115	706986009	12/25/2024	Lead-214	-1.18E-03	6.82E-04	2.02E-03	pCi/m3	U
2115	657104005	1/23/2024	Manganese-54	-7.14E-05	2.48E-04	8.07E-04	pCi/m3	U
2115	659797006	2/20/2024	Manganese-54	3.60E-04	3.53E-04	1.25E-03	pCi/m3	U
2115	664161010	3/18/2024	Manganese-54	-3.74E-04	2.88E-04	8.35E-04	pCi/m3	U
2115	669419009	4/16/2024	Manganese-54	5.78E-04	2.92E-04	1.12E-03	pCi/m3	U
2115	674392006	5/13/2024	Manganese-54	1.25E-04	2.76E-04	9.70E-04	pCi/m3	U
2115	676203007	6/11/2024	Manganese-54	-1.02E-04	2.50E-04	7.95E-04	pCi/m3	U
2115	682054004	7/8/2024	Manganese-54	5.98E-04	5.11E-04	6.69E-04	pCi/m3	U
2115	691730001	8/5/2024	Manganese-54	-2.97E-04	6.71E-04	2.16E-03	pCi/m3	U
2115	691734006	8/27/2024	Manganese-54	-8.08E-07	2.62E-04	8.82E-04	pCi/m3	U
2115	695577011	10/2/2024	Manganese-54	-1.13E-04	4.34E-04	1.42E-03	pCi/m3	U
2115	702719006	10/28/2024	Manganese-54	6.03E-05	2.15E-04	7.44E-04	pCi/m3	U
2115	703169007	11/26/2024	Manganese-54	2.73E-04	2.31E-04	9.38E-04	pCi/m3	U
2115	706986009	12/25/2024	Manganese-54	9.71E-05	3.16E-04	1.05E-03	pCi/m3	U
2115	657104005	1/23/2024	Molybdenum-99	3.55E+01	2.19E+01	0.00E+00	pCi/m3	UI
2115	659797006	2/20/2024	Molybdenum-99	8.64E+00	8.01E+00	0.00E+00	pCi/m3	UI

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	664161010	3/18/2024	Molybdenum-99	8.82E+00	3.51E+01	0.00E+00	pCi/m3	UI
2115	669419009	4/16/2024	Molybdenum-99	-8.97E+02	8.84E+02	0.00E+00	pCi/m3	U
2115	674392006	5/13/2024	Molybdenum-99	2.06E+02	1.10E+04	0.00E+00	pCi/m3	UI
2115	676203007	6/11/2024	Molybdenum-99	8.61E+01	1.30E+02	0.00E+00	pCi/m3	UI
2115	682054004	7/8/2024	Molybdenum-99	1.91E+03	1.51E+03	0.00E+00	pCi/m3	UI
2115	691730001	8/5/2024	Molybdenum-99	-1.50E+07	1.62E+07	0.00E+00	pCi/m3	U
2115	691734006	8/27/2024	Molybdenum-99	-5.00E+04	3.52E+04	0.00E+00	pCi/m3	U
2115	695577011	10/2/2024	Molybdenum-99	1.78E+03	1.28E+03	0.00E+00	pCi/m3	UI
2115	702719006	10/28/2024	Molybdenum-99	-1.31E+05	1.38E+05	0.00E+00	pCi/m3	U
2115	703169007	11/26/2024	Molybdenum-99	-1.58E+02	4.79E+02	0.00E+00	pCi/m3	U
2115	706986009	12/25/2024	Molybdenum-99	-9.83E+01	3.42E+02	0.00E+00	pCi/m3	U
2115	657104005	1/23/2024	Niobium-95	5.23E-04	3.26E-04	1.24E-03	pCi/m3	U
2115	659797006	2/20/2024	Niobium-95	6.07E-04	4.09E-04	1.51E-03	pCi/m3	U
2115	664161010	3/18/2024	Niobium-95	2.69E-04	3.12E-04	1.00E-03	pCi/m3	U
2115	669419009	4/16/2024	Niobium-95	1.35E-04	4.03E-04	1.33E-03	pCi/m3	U
2115	674392006	5/13/2024	Niobium-95	7.92E-04	4.79E-04	1.79E-03	pCi/m3	U
2115	676203007	6/11/2024	Niobium-95	-7.30E-04	4.35E-04	1.21E-03	pCi/m3	U
2115	682054004	7/8/2024	Niobium-95	-1.71E-04	3.43E-04	9.13E-04	pCi/m3	U
2115	691730001	8/5/2024	Niobium-95	-7.52E-04	1.91E-03	4.33E-03	pCi/m3	U
2115	691734006	8/27/2024	Niobium-95	-2.04E-04	4.09E-04	1.32E-03	pCi/m3	U
2115	695577011	10/2/2024	Niobium-95	3.34E-04	6.19E-04	2.16E-03	pCi/m3	U
2115	702719006	10/28/2024	Niobium-95	3.02E-05	4.28E-04	1.46E-03	pCi/m3	U
2115	703169007	11/26/2024	Niobium-95	8.32E-05	3.24E-04	9.52E-04	pCi/m3	U
2115	706986009	12/25/2024	Niobium-95	-1.21E-04	4.19E-04	1.31E-03	pCi/m3	U
2115	657104005	1/23/2024	Potassium-40	6.00E-03	4.19E-03	7.93E-03	pCi/m3	U
2115	659797006	2/20/2024	Potassium-40	2.68E-03	5.45E-03	1.97E-02	pCi/m3	U
2115	664161010	3/18/2024	Potassium-40	4.52E-03	5.11E-03	1.24E-02	pCi/m3	U
2115	669419009	4/16/2024	Potassium-40	4.54E-03	5.84E-03	8.22E-03	pCi/m3	U
2115	674392006	5/13/2024	Potassium-40	9.87E-03	4.15E-03	7.58E-03	pCi/m3	UI
2115	676203007	6/11/2024	Potassium-40	3.80E-03	5.44E-03	1.92E-02	pCi/m3	U
2115	682054004	7/8/2024	Potassium-40	1.43E-03	4.16E-03	1.50E-02	pCi/m3	U
2115	691730001	8/5/2024	Potassium-40	1.21E-03	7.34E-03	2.46E-02	pCi/m3	U
2115	691734006	8/27/2024	Potassium-40	2.14E-02	5.85E-03	9.42E-03	pCi/m3	
2115	695577011	10/2/2024	Potassium-40	1.18E-02	6.24E-03	1.23E-02	pCi/m3	U
2115	702719006	10/28/2024	Potassium-40	1.15E-03	4.87E-03	7.37E-03	pCi/m3	U
2115	703169007	11/26/2024	Potassium-40	1.20E-02	4.23E-03	1.21E-02	pCi/m3	U
2115	706986009	12/25/2024	Potassium-40	4.48E-03	7.37E-03	1.36E-02	pCi/m3	U
2115	657104005	1/23/2024	Radium-226	7.81E-04	6.96E-04	1.67E-03	pCi/m3	U
2115	659797006	2/20/2024	Radium-226	1.50E-03	1.11E-03	2.33E-03	pCi/m3	U
2115	664161010	3/18/2024	Radium-226	4.85E-04	6.02E-04	2.11E-03	pCi/m3	U
2115	669419009	4/16/2024	Radium-226	4.31E-04	5.56E-04	1.83E-03	pCi/m3	U
2115	674392006	5/13/2024	Radium-226	-7.67E-04	5.81E-04	1.61E-03	pCi/m3	U
2115	676203007	6/11/2024	Radium-226	9.28E-04	1.12E-03	2.28E-03	pCi/m3	U
2115	682054004	7/8/2024	Radium-226	-3.41E-04	5.90E-04	1.78E-03	pCi/m3	U
2115	691730001	8/5/2024	Radium-226	3.51E-03	1.99E-03	4.68E-03	pCi/m3	U
2115	691734006	8/27/2024	Radium-226	5.11E-04	7.10E-04	1.84E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	695577011	10/2/2024	Radium-226	6.15E-05	8.98E-04	2.53E-03	pCi/m3	U
2115	702719006	10/28/2024	Radium-226	3.37E-04	7.80E-04	1.63E-03	pCi/m3	U
2115	703169007	11/26/2024	Radium-226	8.65E-04	6.61E-04	1.72E-03	pCi/m3	U
2115	706986009	12/25/2024	Radium-226	-1.18E-03	6.82E-04	2.02E-03	pCi/m3	U
2115	657104005	1/23/2024	Radium-228	1.47E-03	1.63E-03	4.40E-03	pCi/m3	U
2115	659797006	2/20/2024	Radium-228	6.59E-04	1.64E-03	5.30E-03	pCi/m3	U
2115	664161010	3/18/2024	Radium-228	5.32E-04	1.70E-03	5.18E-03	pCi/m3	U
2115	669419009	4/16/2024	Radium-228	-1.77E-03	1.22E-03	3.72E-03	pCi/m3	U
2115	674392006	5/13/2024	Radium-228	-3.60E-04	1.35E-03	4.15E-03	pCi/m3	U
2115	676203007	6/11/2024	Radium-228	-8.35E-04	1.42E-03	4.51E-03	pCi/m3	U
2115	682054004	7/8/2024	Radium-228	-1.55E-04	1.13E-03	3.67E-03	pCi/m3	U
2115	691730001	8/5/2024	Radium-228	3.90E-03	2.84E-03	9.63E-03	pCi/m3	U
2115	691734006	8/27/2024	Radium-228	1.71E-03	1.02E-03	4.04E-03	pCi/m3	U
2115	695577011	10/2/2024	Radium-228	-1.17E-03	1.96E-03	6.39E-03	pCi/m3	U
2115	702719006	10/28/2024	Radium-228	4.52E-04	1.61E-03	3.75E-03	pCi/m3	U
2115	703169007	11/26/2024	Radium-228	2.14E-03	1.42E-03	4.97E-03	pCi/m3	U
2115	706986009	12/25/2024	Radium-228	-2.54E-04	1.38E-03	4.55E-03	pCi/m3	U
2115	657104005	1/23/2024	Ruthenium-103	2.66E-04	3.91E-04	1.32E-03	pCi/m3	U
2115	659797006	2/20/2024	Ruthenium-103	5.31E-04	4.39E-04	1.60E-03	pCi/m3	U
2115	664161010	3/18/2024	Ruthenium-103	6.77E-04	4.45E-04	1.64E-03	pCi/m3	U
2115	669419009	4/16/2024	Ruthenium-103	-1.06E-04	4.99E-04	1.61E-03	pCi/m3	U
2115	674392006	5/13/2024	Ruthenium-103	-7.08E-04	5.51E-04	1.65E-03	pCi/m3	U
2115	676203007	6/11/2024	Ruthenium-103	-4.58E-05	4.71E-04	1.53E-03	pCi/m3	U
2115	682054004	7/8/2024	Ruthenium-103	4.63E-04	5.11E-04	1.66E-03	pCi/m3	U
2115	691730001	8/5/2024	Ruthenium-103	-1.18E-03	1.72E-03	5.08E-03	pCi/m3	U
2115	691734006	8/27/2024	Ruthenium-103	-7.06E-04	5.88E-04	1.72E-03	pCi/m3	U
2115	695577011	10/2/2024	Ruthenium-103	-1.58E-04	6.25E-04	1.95E-03	pCi/m3	U
2115	702719006	10/28/2024	Ruthenium-103	7.04E-04	6.36E-04	2.24E-03	pCi/m3	U
2115	703169007	11/26/2024	Ruthenium-103	8.46E-04	4.24E-04	1.63E-03	pCi/m3	U
2115	706986009	12/25/2024	Ruthenium-103	-4.97E-04	4.58E-04	1.37E-03	pCi/m3	U
2115	657104005	1/23/2024	Ruthenium-106	-6.02E-05	2.20E-03	7.46E-03	pCi/m3	U
2115	659797006	2/20/2024	Ruthenium-106	-2.54E-03	3.25E-03	8.71E-03	pCi/m3	U
2115	664161010	3/18/2024	Ruthenium-106	-3.23E-03	2.54E-03	7.07E-03	pCi/m3	U
2115	669419009	4/16/2024	Ruthenium-106	3.59E-04	2.22E-03	7.32E-03	pCi/m3	U
2115	674392006	5/13/2024	Ruthenium-106	-1.46E-03	2.30E-03	7.09E-03	pCi/m3	U
2115	676203007	6/11/2024	Ruthenium-106	-5.12E-04	2.79E-03	8.77E-03	pCi/m3	U
2115	682054004	7/8/2024	Ruthenium-106	2.51E-03	1.95E-03	6.62E-03	pCi/m3	U
2115	691730001	8/5/2024	Ruthenium-106	-4.72E-03	5.31E-03	1.68E-02	pCi/m3	U
2115	691734006	8/27/2024	Ruthenium-106	-2.27E-03	2.45E-03	7.23E-03	pCi/m3	U
2115	695577011	10/2/2024	Ruthenium-106	-8.40E-03	3.31E-03	8.99E-03	pCi/m3	U
2115	702719006	10/28/2024	Ruthenium-106	1.14E-03	1.99E-03	6.71E-03	pCi/m3	U
2115	703169007	11/26/2024	Ruthenium-106	-1.07E-03	2.01E-03	6.28E-03	pCi/m3	U
2115	706986009	12/25/2024	Ruthenium-106	1.48E-03	2.54E-03	8.78E-03	pCi/m3	U
2115	657104005	1/23/2024	Selenium-75	7.21E-06	2.75E-04	9.07E-04	pCi/m3	U
2115	659797006	2/20/2024	Selenium-75	7.55E-05	3.55E-04	1.17E-03	pCi/m3	U
2115	664161010	3/18/2024	Selenium-75	-1.77E-05	3.68E-04	1.14E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	669419009	4/16/2024	Selenium-75	-3.44E-05	3.20E-04	1.09E-03	pCi/m3	U
2115	674392006	5/13/2024	Selenium-75	-8.40E-05	3.09E-04	1.01E-03	pCi/m3	U
2115	676203007	6/11/2024	Selenium-75	-6.98E-04	3.28E-04	8.43E-04	pCi/m3	U
2115	682054004	7/8/2024	Selenium-75	-1.54E-04	3.43E-04	1.05E-03	pCi/m3	U
2115	691730001	8/5/2024	Selenium-75	9.36E-04	8.30E-04	2.89E-03	pCi/m3	U
2115	691734006	8/27/2024	Selenium-75	1.71E-05	3.67E-04	1.26E-03	pCi/m3	U
2115	695577011	10/2/2024	Selenium-75	1.93E-04	4.80E-04	1.61E-03	pCi/m3	U
2115	702719006	10/28/2024	Selenium-75	1.33E-04	3.10E-04	1.08E-03	pCi/m3	U
2115	703169007	11/26/2024	Selenium-75	-2.15E-04	2.83E-04	9.00E-04	pCi/m3	U
2115	706986009	12/25/2024	Selenium-75	-2.52E-04	4.16E-04	1.24E-03	pCi/m3	U
2115	657104005	1/23/2024	Silver-108m	2.33E-04	1.80E-04	6.35E-04	pCi/m3	U
2115	659797006	2/20/2024	Silver-108m	4.33E-04	2.05E-04	7.65E-04	pCi/m3	U
2115	664161010	3/18/2024	Silver-108m	1.66E-04	2.15E-04	7.27E-04	pCi/m3	U
2115	669419009	4/16/2024	Silver-108m	-1.48E-04	1.88E-04	5.85E-04	pCi/m3	U
2115	674392006	5/13/2024	Silver-108m	1.05E-04	2.20E-04	6.53E-04	pCi/m3	U
2115	676203007	6/11/2024	Silver-108m	1.24E-04	1.77E-04	6.23E-04	pCi/m3	U
2115	682054004	7/8/2024	Silver-108m	3.73E-06	2.09E-04	6.34E-04	pCi/m3	U
2115	691730001	8/5/2024	Silver-108m	8.83E-05	3.40E-04	1.12E-03	pCi/m3	U
2115	691734006	8/27/2024	Silver-108m	1.20E-04	1.86E-04	6.40E-04	pCi/m3	U
2115	695577011	10/2/2024	Silver-108m	5.29E-04	2.65E-04	9.74E-04	pCi/m3	U
2115	702719006	10/28/2024	Silver-108m	-8.51E-05	1.71E-04	5.46E-04	pCi/m3	U
2115	703169007	11/26/2024	Silver-108m	1.34E-04	1.50E-04	5.17E-04	pCi/m3	U
2115	706986009	12/25/2024	Silver-108m	4.02E-04	2.03E-04	6.52E-04	pCi/m3	U
2115	657104005	1/23/2024	Silver-110m	1.88E-04	3.50E-04	1.22E-03	pCi/m3	U
2115	659797006	2/20/2024	Silver-110m	2.24E-04	5.06E-04	1.71E-03	pCi/m3	U
2115	664161010	3/18/2024	Silver-110m	3.90E-04	3.91E-04	1.45E-03	pCi/m3	U
2115	669419009	4/16/2024	Silver-110m	-3.71E-04	3.32E-04	9.66E-04	pCi/m3	U
2115	674392006	5/13/2024	Silver-110m	5.22E-04	3.70E-04	1.43E-03	pCi/m3	U
2115	676203007	6/11/2024	Silver-110m	5.30E-05	5.21E-04	1.54E-03	pCi/m3	U
2115	682054004	7/8/2024	Silver-110m	4.37E-04	3.68E-04	1.23E-03	pCi/m3	U
2115	691730001	8/5/2024	Silver-110m	1.40E-03	9.26E-04	3.49E-03	pCi/m3	U
2115	691734006	8/27/2024	Silver-110m	4.27E-04	4.08E-04	1.37E-03	pCi/m3	U
2115	695577011	10/2/2024	Silver-110m	-3.47E-04	5.32E-04	1.66E-03	pCi/m3	U
2115	702719006	10/28/2024	Silver-110m	-6.07E-05	3.29E-04	1.08E-03	pCi/m3	U
2115	703169007	11/26/2024	Silver-110m	-1.51E-04	3.30E-04	1.05E-03	pCi/m3	U
2115	706986009	12/25/2024	Silver-110m	4.47E-04	3.53E-04	1.26E-03	pCi/m3	U
2115	657104005	1/23/2024	Tellurium-132	1.72E-01	4.74E-01	0.00E+00	pCi/m3	UI
2115	659797006	2/20/2024	Tellurium-132	4.29E-01	1.88E-01	0.00E+00	pCi/m3	UI
2115	664161010	3/18/2024	Tellurium-132	4.71E-02	6.46E-01	0.00E+00	pCi/m3	UI
2115	669419009	4/16/2024	Tellurium-132	-1.95E+01	1.19E+01	0.00E+00	pCi/m3	U
2115	674392006	5/13/2024	Tellurium-132	-1.36E+02	8.49E+01	0.00E+00	pCi/m3	U
2115	676203007	6/11/2024	Tellurium-132	8.46E-01	1.92E+00	0.00E+00	pCi/m3	UI
2115	682054004	7/8/2024	Tellurium-132	3.26E+00	1.94E+01	0.00E+00	pCi/m3	UI
2115	691730001	8/5/2024	Tellurium-132	-3.14E+04	5.88E+04	0.00E+00	pCi/m3	U
2115	691734006	8/27/2024	Tellurium-132	-3.50E+02	2.84E+02	0.00E+00	pCi/m3	U
2115	695577011	10/2/2024	Tellurium-132	-1.80E+01	1.10E+01	0.00E+00	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	702719006	10/28/2024	Tellurium-132	-8.86E+02	9.96E+02	0.00E+00	pCi/m3	U
2115	703169007	11/26/2024	Tellurium-132	1.97E+00	4.59E+00	0.00E+00	pCi/m3	UI
2115	706986009	12/25/2024	Tellurium-132	-4.59E+00	5.26E+00	0.00E+00	pCi/m3	U
2115	657104005	1/23/2024	Thallium-208	3.84E-04	5.23E-04	7.77E-04	pCi/m3	U
2115	659797006	2/20/2024	Thallium-208	-1.32E-04	3.80E-04	1.23E-03	pCi/m3	U
2115	664161010	3/18/2024	Thallium-208	-7.65E-06	3.98E-04	1.15E-03	pCi/m3	U
2115	669419009	4/16/2024	Thallium-208	3.59E-04	5.80E-04	8.08E-04	pCi/m3	U
2115	674392006	5/13/2024	Thallium-208	5.90E-04	3.00E-04	1.13E-03	pCi/m3	U
2115	676203007	6/11/2024	Thallium-208	1.33E-04	3.37E-04	1.08E-03	pCi/m3	U
2115	682054004	7/8/2024	Thallium-208	1.40E-03	4.56E-04	5.09E-04	pCi/m3	UI
2115	691730001	8/5/2024	Thallium-208	9.16E-04	6.67E-04	1.35E-03	pCi/m3	U
2115	691734006	8/27/2024	Thallium-208	1.20E-03	3.32E-04	7.79E-04	pCi/m3	
2115	695577011	10/2/2024	Thallium-208	4.38E-04	4.01E-04	1.38E-03	pCi/m3	U
2115	702719006	10/28/2024	Thallium-208	7.97E-04	5.08E-04	6.50E-04	pCi/m3	UI
2115	703169007	11/26/2024	Thallium-208	-3.04E-04	2.94E-04	9.00E-04	pCi/m3	U
2115	706986009	12/25/2024	Thallium-208	1.12E-03	4.90E-04	6.54E-04	pCi/m3	UI
2115	657104005	1/23/2024	Thorium-228	9.25E-04	5.33E-04	1.40E-03	pCi/m3	U
2115	659797006	2/20/2024	Thorium-228	1.02E-03	7.35E-04	2.02E-03	pCi/m3	U
2115	664161010	3/18/2024	Thorium-228	9.42E-04	7.44E-04	1.77E-03	pCi/m3	U
2115	669419009	4/16/2024	Thorium-228	1.16E-03	5.83E-04	1.81E-03	pCi/m3	U
2115	674392006	5/13/2024	Thorium-228	1.54E-03	7.26E-04	9.98E-04	pCi/m3	UI
2115	676203007	6/11/2024	Thorium-228	1.21E-03	4.56E-04	1.48E-03	pCi/m3	U
2115	682054004	7/8/2024	Thorium-228	1.90E-03	6.64E-04	1.34E-03	pCi/m3	UI
2115	691730001	8/5/2024	Thorium-228	1.33E-03	1.27E-03	3.18E-03	pCi/m3	U
2115	691734006	8/27/2024	Thorium-228	1.58E-04	6.39E-04	1.11E-03	pCi/m3	U
2115	695577011	10/2/2024	Thorium-228	1.50E-03	7.86E-04	1.88E-03	pCi/m3	U
2115	702719006	10/28/2024	Thorium-228	1.24E-03	4.52E-04	1.34E-03	pCi/m3	U
2115	703169007	11/26/2024	Thorium-228	8.43E-04	5.01E-04	1.41E-03	pCi/m3	U
2115	706986009	12/25/2024	Thorium-228	5.85E-04	9.26E-04	1.87E-03	pCi/m3	U
2115	657104005	1/23/2024	Thorium-230	7.81E-04	6.96E-04	1.67E-03	pCi/m3	U
2115	659797006	2/20/2024	Thorium-230	1.50E-03	1.11E-03	2.33E-03	pCi/m3	U
2115	664161010	3/18/2024	Thorium-230	4.85E-04	6.02E-04	2.11E-03	pCi/m3	U
2115	669419009	4/16/2024	Thorium-230	4.31E-04	5.56E-04	1.83E-03	pCi/m3	U
2115	674392006	5/13/2024	Thorium-230	-7.67E-04	5.81E-04	1.61E-03	pCi/m3	U
2115	676203007	6/11/2024	Thorium-230	9.27E-04	1.12E-03	2.28E-03	pCi/m3	U
2115	682054004	7/8/2024	Thorium-230	-3.41E-04	5.90E-04	1.78E-03	pCi/m3	U
2115	691730001	8/5/2024	Thorium-230	3.51E-03	1.98E-03	4.67E-03	pCi/m3	U
2115	691734006	8/27/2024	Thorium-230	5.11E-04	7.10E-04	1.84E-03	pCi/m3	U
2115	695577011	10/2/2024	Thorium-230	6.15E-05	8.98E-04	2.53E-03	pCi/m3	U
2115	702719006	10/28/2024	Thorium-230	3.37E-04	7.80E-04	1.63E-03	pCi/m3	U
2115	703169007	11/26/2024	Thorium-230	8.65E-04	6.61E-04	1.72E-03	pCi/m3	U
2115	706986009	12/25/2024	Thorium-230	-1.18E-03	6.82E-04	2.02E-03	pCi/m3	U
2115	657104005	1/23/2024	Thorium-232	1.47E-03	1.63E-03	4.40E-03	pCi/m3	U
2115	659797006	2/20/2024	Thorium-232	6.59E-04	1.64E-03	5.30E-03	pCi/m3	U
2115	664161010	3/18/2024	Thorium-232	5.32E-04	1.70E-03	5.18E-03	pCi/m3	U
2115	669419009	4/16/2024	Thorium-232	-1.77E-03	1.22E-03	3.72E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	674392006	5/13/2024	Thorium-232	-3.60E-04	1.35E-03	4.15E-03	pCi/m3	U
2115	676203007	6/11/2024	Thorium-232	-8.35E-04	1.42E-03	4.51E-03	pCi/m3	U
2115	682054004	7/8/2024	Thorium-232	-1.55E-04	1.13E-03	3.67E-03	pCi/m3	U
2115	691730001	8/5/2024	Thorium-232	3.90E-03	2.84E-03	9.63E-03	pCi/m3	U
2115	691734006	8/27/2024	Thorium-232	1.71E-03	1.02E-03	4.04E-03	pCi/m3	U
2115	695577011	10/2/2024	Thorium-232	-1.17E-03	1.96E-03	6.39E-03	pCi/m3	U
2115	702719006	10/28/2024	Thorium-232	4.52E-04	1.61E-03	3.75E-03	pCi/m3	U
2115	703169007	11/26/2024	Thorium-232	2.14E-03	1.42E-03	4.97E-03	pCi/m3	U
2115	706986009	12/25/2024	Thorium-232	-2.54E-04	1.38E-03	4.55E-03	pCi/m3	U
2115	657104005	1/23/2024	Thorium-234	1.93E-02	8.38E-03	2.51E-02	pCi/m3	U
2115	659797006	2/20/2024	Thorium-234	1.05E-02	2.18E-02	2.85E-02	pCi/m3	U
2115	664161010	3/18/2024	Thorium-234	2.18E-02	1.29E-02	2.18E-02	pCi/m3	U
2115	669419009	4/16/2024	Thorium-234	2.30E-03	9.72E-03	2.06E-02	pCi/m3	U
2115	674392006	5/13/2024	Thorium-234	-1.01E-02	1.10E-02	3.48E-02	pCi/m3	U
2115	676203007	6/11/2024	Thorium-234	-1.65E-02	8.58E-03	2.57E-02	pCi/m3	U
2115	682054004	7/8/2024	Thorium-234	-4.77E-03	7.01E-03	2.18E-02	pCi/m3	U
2115	691730001	8/5/2024	Thorium-234	5.91E-03	8.74E-03	1.46E-02	pCi/m3	U
2115	691734006	8/27/2024	Thorium-234	-1.35E-02	4.85E-03	1.55E-02	pCi/m3	U
2115	695577011	10/2/2024	Thorium-234	7.50E-03	5.41E-03	8.00E-03	pCi/m3	U
2115	702719006	10/28/2024	Thorium-234	4.15E-03	5.70E-03	9.97E-03	pCi/m3	U
2115	703169007	11/26/2024	Thorium-234	-3.04E-03	1.02E-02	2.92E-02	pCi/m3	U
2115	706986009	12/25/2024	Thorium-234	2.52E-03	1.64E-02	3.70E-02	pCi/m3	U
2115	657104005	1/23/2024	Uranium-234	7.81E-04	6.96E-04	1.67E-03	pCi/m3	U
2115	659797006	2/20/2024	Uranium-234	1.50E-03	1.11E-03	2.33E-03	pCi/m3	U
2115	664161010	3/18/2024	Uranium-234	4.85E-04	6.02E-04	2.11E-03	pCi/m3	U
2115	669419009	4/16/2024	Uranium-234	4.31E-04	5.56E-04	1.83E-03	pCi/m3	U
2115	674392006	5/13/2024	Uranium-234	-7.67E-04	5.81E-04	1.61E-03	pCi/m3	U
2115	676203007	6/11/2024	Uranium-234	9.27E-04	1.12E-03	2.28E-03	pCi/m3	U
2115	682054004	7/8/2024	Uranium-234	-3.41E-04	5.90E-04	1.78E-03	pCi/m3	U
2115	691730001	8/5/2024	Uranium-234	3.51E-03	1.98E-03	4.67E-03	pCi/m3	U
2115	691734006	8/27/2024	Uranium-234	5.11E-04	7.10E-04	1.84E-03	pCi/m3	U
2115	695577011	10/2/2024	Uranium-234	6.15E-05	8.98E-04	2.53E-03	pCi/m3	U
2115	702719006	10/28/2024	Uranium-234	3.37E-04	7.80E-04	1.63E-03	pCi/m3	U
2115	703169007	11/26/2024	Uranium-234	8.65E-04	6.61E-04	1.72E-03	pCi/m3	U
2115	706986009	12/25/2024	Uranium-234	-1.18E-03	6.82E-04	2.02E-03	pCi/m3	U
2115	657104005	1/23/2024	Zinc-65	1.93E-05	7.28E-04	2.10E-03	pCi/m3	U
2115	659797006	2/20/2024	Zinc-65	-3.31E-04	8.68E-04	2.41E-03	pCi/m3	U
2115	664161010	3/18/2024	Zinc-65	7.93E-04	6.32E-04	2.42E-03	pCi/m3	U
2115	669419009	4/16/2024	Zinc-65	-1.93E-04	7.15E-04	2.31E-03	pCi/m3	U
2115	674392006	5/13/2024	Zinc-65	-3.23E-04	6.12E-04	1.84E-03	pCi/m3	U
2115	676203007	6/11/2024	Zinc-65	6.00E-04	7.42E-04	2.63E-03	pCi/m3	U
2115	682054004	7/8/2024	Zinc-65	-3.56E-04	5.90E-04	1.59E-03	pCi/m3	U
2115	691730001	8/5/2024	Zinc-65	-2.54E-04	1.19E-03	3.79E-03	pCi/m3	U
2115	691734006	8/27/2024	Zinc-65	1.05E-04	6.31E-04	1.97E-03	pCi/m3	U
2115	695577011	10/2/2024	Zinc-65	5.65E-04	9.25E-04	3.22E-03	pCi/m3	U
2115	702719006	10/28/2024	Zinc-65	9.40E-04	6.25E-04	2.34E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	703169007	11/26/2024	Zinc-65	-1.18E-04	7.23E-04	2.32E-03	pCi/m3	U
2115	706986009	12/25/2024	Zinc-65	7.79E-04	7.29E-04	2.55E-03	pCi/m3	U
2115	657104005	1/23/2024	Zirconium-95	4.82E-04	5.30E-04	1.78E-03	pCi/m3	U
2115	659797006	2/20/2024	Zirconium-95	2.95E-04	7.07E-04	2.36E-03	pCi/m3	U
2115	664161010	3/18/2024	Zirconium-95	2.21E-03	5.70E-04	2.20E-03	pCi/m3	UI
2115	669419009	4/16/2024	Zirconium-95	1.68E-04	7.57E-04	2.48E-03	pCi/m3	U
2115	674392006	5/13/2024	Zirconium-95	-3.12E-05	7.96E-04	2.55E-03	pCi/m3	U
2115	676203007	6/11/2024	Zirconium-95	4.62E-04	7.09E-04	2.22E-03	pCi/m3	U
2115	682054004	7/8/2024	Zirconium-95	6.00E-04	8.21E-04	2.58E-03	pCi/m3	U
2115	691730001	8/5/2024	Zirconium-95	2.96E-03	3.41E-03	9.38E-03	pCi/m3	U
2115	691734006	8/27/2024	Zirconium-95	2.36E-04	7.24E-04	2.53E-03	pCi/m3	U
2115	695577011	10/2/2024	Zirconium-95	-1.49E-03	1.03E-03	3.00E-03	pCi/m3	U
2115	702719006	10/28/2024	Zirconium-95	-5.87E-04	7.15E-04	2.25E-03	pCi/m3	U
2115	703169007	11/26/2024	Zirconium-95	4.30E-04	7.17E-04	2.44E-03	pCi/m3	U
2115	706986009	12/25/2024	Zirconium-95	1.46E-04	8.62E-04	2.83E-03	pCi/m3	U
2223	657104006	1/24/2024	Actinium-228	1.27E-03	1.34E-03	3.56E-03	pCi/m3	U
2223	659797011	2/20/2024	Actinium-228	1.95E-03	1.14E-03	3.55E-03	pCi/m3	U
2223	664161011	3/19/2024	Actinium-228	5.78E-04	1.44E-03	4.53E-03	pCi/m3	U
2223	669419007	4/16/2024	Actinium-228	3.92E-03	1.55E-03	5.77E-03	pCi/m3	U
2223	674392011	5/13/2024	Actinium-228	8.24E-04	1.48E-03	5.05E-03	pCi/m3	U
2223	676203011	6/11/2024	Actinium-228	7.95E-04	1.32E-03	4.82E-03	pCi/m3	U
2223	682054011	7/8/2024	Actinium-228	1.20E-04	9.38E-04	3.20E-03	pCi/m3	U
2223	691730011	8/6/2024	Actinium-228	2.96E-03	1.93E-03	5.92E-03	pCi/m3	U
2223	691734002	8/27/2024	Actinium-228	1.00E-03	1.39E-03	4.97E-03	pCi/m3	U
2223	695577009	10/1/2024	Actinium-228	4.99E-04	1.27E-03	4.36E-03	pCi/m3	U
2223	702719008	10/28/2024	Actinium-228	-3.36E-03	3.07E-03	9.63E-03	pCi/m3	U
2223	703169004	11/25/2024	Actinium-228	3.30E-03	1.36E-03	5.15E-03	pCi/m3	U
2223	706986004	12/24/2024	Actinium-228	2.70E-03	1.69E-03	5.27E-03	pCi/m3	U
2223	657104006	1/24/2024	Americium-241	-8.35E-05	7.14E-04	2.17E-03	pCi/m3	U
2223	659797011	2/20/2024	Americium-241	4.02E-04	6.18E-04	1.85E-03	pCi/m3	U
2223	664161011	3/19/2024	Americium-241	-3.46E-05	8.53E-04	2.62E-03	pCi/m3	U
2223	669419007	4/16/2024	Americium-241	3.44E-03	2.17E-03	7.89E-03	pCi/m3	U
2223	674392011	5/13/2024	Americium-241	1.25E-03	8.61E-04	3.17E-03	pCi/m3	U
2223	676203011	6/11/2024	Americium-241	-9.40E-04	1.99E-03	6.41E-03	pCi/m3	U
2223	682054011	7/8/2024	Americium-241	1.47E-04	3.10E-04	1.09E-03	pCi/m3	U
2223	691730011	8/6/2024	Americium-241	1.54E-04	2.00E-04	7.21E-04	pCi/m3	U
2223	691734002	8/27/2024	Americium-241	7.23E-04	3.25E-04	5.38E-04	pCi/m3	UI
2223	695577009	10/1/2024	Americium-241	1.38E-03	9.32E-04	3.49E-03	pCi/m3	U
2223	702719008	10/28/2024	Americium-241	-2.90E-04	3.78E-04	1.26E-03	pCi/m3	U
2223	703169004	11/25/2024	Americium-241	-1.45E-04	7.74E-04	2.62E-03	pCi/m3	U
2223	706986004	12/24/2024	Americium-241	1.22E-03	7.27E-04	2.43E-03	pCi/m3	U
2223	657104006	1/24/2024	Antimony-124	-7.77E-04	8.81E-04	2.45E-03	pCi/m3	U
2223	659797011	2/20/2024	Antimony-124	4.49E-04	9.02E-04	3.23E-03	pCi/m3	U
2223	664161011	3/19/2024	Antimony-124	1.82E-03	9.54E-04	4.08E-03	pCi/m3	U
2223	669419007	4/16/2024	Antimony-124	-6.92E-04	1.38E-03	4.05E-03	pCi/m3	U
2223	674392011	5/13/2024	Antimony-124	6.22E-04	1.67E-03	5.87E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	676203011	6/11/2024	Antimony-124	3.74E-04	1.17E-03	4.06E-03	pCi/m3	U
2223	682054011	7/8/2024	Antimony-124	1.37E-03	1.46E-03	5.66E-03	pCi/m3	U
2223	691730011	8/6/2024	Antimony-124	3.09E-03	1.78E-03	8.31E-03	pCi/m3	U
2223	691734002	8/27/2024	Antimony-124	1.71E-03	1.37E-03	5.69E-03	pCi/m3	U
2223	695577009	10/1/2024	Antimony-124	-1.29E-03	1.26E-03	3.36E-03	pCi/m3	U
2223	702719008	10/28/2024	Antimony-124	-1.88E-03	3.55E-03	1.12E-02	pCi/m3	U
2223	703169004	11/25/2024	Antimony-124	1.64E-03	1.14E-03	4.62E-03	pCi/m3	U
2223	706986004	12/24/2024	Antimony-124	-3.60E-04	8.91E-04	2.69E-03	pCi/m3	U
2223	657104006	1/24/2024	Antimony-125	1.01E-03	5.62E-04	1.86E-03	pCi/m3	U
2223	659797011	2/20/2024	Antimony-125	-2.43E-04	5.25E-04	1.63E-03	pCi/m3	U
2223	664161011	3/19/2024	Antimony-125	-8.98E-04	5.75E-04	1.65E-03	pCi/m3	U
2223	669419007	4/16/2024	Antimony-125	-5.57E-04	7.59E-04	2.33E-03	pCi/m3	U
2223	674392011	5/13/2024	Antimony-125	-8.94E-04	6.52E-04	1.92E-03	pCi/m3	U
2223	676203011	6/11/2024	Antimony-125	4.42E-04	6.32E-04	2.24E-03	pCi/m3	U
2223	682054011	7/8/2024	Antimony-125	-5.40E-04	5.52E-04	1.65E-03	pCi/m3	U
2223	691730011	8/6/2024	Antimony-125	1.07E-03	9.14E-04	3.06E-03	pCi/m3	U
2223	691734002	8/27/2024	Antimony-125	-1.90E-04	5.97E-04	1.93E-03	pCi/m3	U
2223	695577009	10/1/2024	Antimony-125	6.26E-04	6.89E-04	2.43E-03	pCi/m3	U
2223	702719008	10/28/2024	Antimony-125	3.75E-04	1.16E-03	3.82E-03	pCi/m3	U
2223	703169004	11/25/2024	Antimony-125	-2.30E-04	6.64E-04	1.89E-03	pCi/m3	U
2223	706986004	12/24/2024	Antimony-125	3.13E-04	6.27E-04	2.18E-03	pCi/m3	U
2223	657104006	1/24/2024	Barium-140	4.43E-03	4.74E-03	1.68E-02	pCi/m3	U
2223	659797011	2/20/2024	Barium-140	-2.84E-03	3.91E-03	1.16E-02	pCi/m3	U
2223	664161011	3/19/2024	Barium-140	-8.46E-04	6.13E-03	1.98E-02	pCi/m3	U
2223	669419007	4/16/2024	Barium-140	4.50E-03	1.55E-02	5.03E-02	pCi/m3	U
2223	674392011	5/13/2024	Barium-140	-9.09E-02	2.90E-02	6.12E-02	pCi/m3	U
2223	676203011	6/11/2024	Barium-140	5.71E-03	8.25E-03	2.90E-02	pCi/m3	U
2223	682054011	7/8/2024	Barium-140	-1.44E-02	1.79E-02	5.37E-02	pCi/m3	U
2223	691730011	8/6/2024	Barium-140	-8.23E-02	1.27E-01	3.42E-01	pCi/m3	U
2223	691734002	8/27/2024	Barium-140	2.10E-02	3.77E-02	1.20E-01	pCi/m3	U
2223	695577009	10/1/2024	Barium-140	5.82E-04	1.25E-02	4.08E-02	pCi/m3	U
2223	702719008	10/28/2024	Barium-140	-3.66E-02	8.13E-02	2.46E-01	pCi/m3	U
2223	703169004	11/25/2024	Barium-140	4.17E-02	1.93E-02	4.92E-02	pCi/m3	U
2223	706986004	12/24/2024	Barium-140	-9.36E-03	9.56E-03	2.91E-02	pCi/m3	U
2223	657104006	1/24/2024	Beryllium-7	5.54E-02	5.61E-03	6.31E-03	pCi/m3	U
2223	659797011	2/20/2024	Beryllium-7	8.32E-02	7.08E-03	9.22E-03	pCi/m3	U
2223	664161011	3/19/2024	Beryllium-7	1.01E-01	9.32E-03	1.09E-02	pCi/m3	U
2223	669419007	4/16/2024	Beryllium-7	1.29E-01	1.20E-02	1.38E-02	pCi/m3	U
2223	674392011	5/13/2024	Beryllium-7	1.30E-01	1.42E-02	1.73E-02	pCi/m3	U
2223	676203011	6/11/2024	Beryllium-7	1.23E-01	9.73E-03	1.04E-02	pCi/m3	U
2223	682054011	7/8/2024	Beryllium-7	1.44E-01	1.34E-02	1.53E-02	pCi/m3	U
2223	691730011	8/6/2024	Beryllium-7	1.09E-01	1.76E-02	1.62E-02	pCi/m3	U
2223	691734002	8/27/2024	Beryllium-7	1.81E-01	1.34E-02	1.48E-02	pCi/m3	U
2223	695577009	10/1/2024	Beryllium-7	1.01E-01	1.04E-02	9.14E-03	pCi/m3	U
2223	702719008	10/28/2024	Beryllium-7	1.10E-01	1.55E-02	2.41E-02	pCi/m3	U
2223	703169004	11/25/2024	Beryllium-7	6.93E-02	9.26E-03	1.33E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	706986004	12/24/2024	Beryllium-7	6.19E-02	9.47E-03	1.29E-02	pCi/m3	
2223	650210019	1/2/2024	BETA	3.93E-02	1.66E-03	1.28E-03	pCi/m3	
2223	650994017	1/8/2024	BETA	4.51E-02	1.97E-03	1.61E-03	pCi/m3	
2223	651848017	1/18/2024	BETA	4.50E-02	1.50E-03	9.58E-04	pCi/m3	
2223	652268013	1/24/2024	BETA	4.89E-02	2.06E-03	1.63E-03	pCi/m3	
2223	653178005	1/30/2024	BETA	1.64E-02	1.25E-03	1.57E-03	pCi/m3	
2223	654187001	2/6/2024	BETA	4.38E-02	1.79E-03	1.31E-03	pCi/m3	
2223	655008011	2/13/2024	BETA	2.75E-02	1.47E-03	1.35E-03	pCi/m3	
2223	655819023	2/20/2024	BETA	3.53E-02	1.65E-03	1.39E-03	pCi/m3	
2223	656511013	2/27/2024	BETA	3.31E-02	1.65E-03	1.37E-03	pCi/m3	
2223	657416011	3/4/2024	BETA	3.22E-02	1.70E-03	1.51E-03	pCi/m3	
2223	658450011	3/12/2024	BETA	2.19E-02	1.28E-03	1.34E-03	pCi/m3	
2223	659313021	3/19/2024	BETA	2.71E-02	1.50E-03	1.48E-03	pCi/m3	
2223	660083005	3/26/2024	BETA	2.93E-02	1.55E-03	1.36E-03	pCi/m3	
2223	660793009	4/1/2024	BETA	3.45E-02	1.80E-03	1.63E-03	pCi/m3	
2223	662052011	4/9/2024	BETA	2.33E-02	1.25E-03	1.09E-03	pCi/m3	
2223	662074019	4/16/2024	BETA	3.25E-02	1.57E-03	1.32E-03	pCi/m3	
2223	664092009	4/23/2024	BETA	2.84E-02	1.51E-03	1.36E-03	pCi/m3	
2223	665204005	4/30/2024	BETA	3.14E-02	1.56E-03	1.40E-03	pCi/m3	
2223	666121015	5/7/2024	BETA	2.68E-02	1.45E-03	1.30E-03	pCi/m3	
2223	667159021	5/13/2024	BETA	2.44E-02	1.51E-03	1.54E-03	pCi/m3	
2223	668220018	5/20/2024	BETA	2.57E-02	1.39E-03	1.23E-03	pCi/m3	
2223	669062003	5/28/2024	BETA	4.52E-02	1.66E-03	1.06E-03	pCi/m3	
2223	669755001	6/3/2024	BETA	2.49E-02	1.43E-03	1.36E-03	pCi/m3	
2223	670837023	6/11/2024	BETA	1.92E-02	9.58E-04	8.23E-04	pCi/m3	
2223	671897013	6/18/2024	BETA	4.00E-02	1.64E-03	1.18E-03	pCi/m3	
2223	672773015	6/25/2024	BETA	3.26E-02	1.44E-03	1.18E-03	pCi/m3	
2223	673676017	7/2/2024	BETA	3.07E-02	1.44E-03	1.19E-03	pCi/m3	
2223	674336021	7/8/2024	BETA	2.90E-02	1.53E-03	1.44E-03	pCi/m3	
2223	675686017	7/16/2024	BETA	3.14E-02	1.33E-03	9.89E-04	pCi/m3	
2223	676802011	7/23/2024	BETA	2.39E-02	1.25E-03	1.15E-03	pCi/m3	
2223	677970017	7/30/2024	BETA	3.09E-02	1.42E-03	1.19E-03	pCi/m3	
2223	679202021	8/6/2024	BETA	3.33E-02	1.56E-03	1.62E-03	pCi/m3	
2223	680237001	8/13/2024	BETA	4.49E-02	1.74E-03	1.24E-03	pCi/m3	
2223	681488021	8/20/2024	BETA	6.37E-02	2.07E-03	1.26E-03	pCi/m3	
2223	682604003	8/27/2024	BETA	4.40E-02	1.75E-03	1.28E-03	pCi/m3	
2223	683692017	9/4/2024	BETA	3.64E-02	1.45E-03	1.07E-03	pCi/m3	
2223	684664015	9/10/2024	BETA	3.39E-02	1.64E-03	1.39E-03	pCi/m3	
2223	685842021	9/17/2024	BETA	3.38E-02	2.91E-03	1.13E-03	pCi/m3	
2223	686976007	9/23/2024	BETA	3.81E-02	1.80E-03	1.51E-03	pCi/m3	
2223	687851017	10/1/2024	BETA	3.06E-02	1.39E-03	1.07E-03	pCi/m3	
2223	689079007	10/8/2024	BETA	5.03E-02	1.99E-03	1.37E-03	pCi/m3	
2223	690093006	10/15/2024	BETA	5.41E-02	2.01E-03	1.36E-03	pCi/m3	
2223	691165009	10/22/2024	BETA	3.85E-02	1.70E-03	1.33E-03	pCi/m3	
2223	692327023	10/28/2024	BETA	6.94E-02	2.51E-03	1.64E-03	pCi/m3	
2223	693531007	11/4/2024	BETA	4.00E-02	1.75E-03	1.44E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	694911019	11/13/2024	BETA	3.36E-02	1.39E-03	1.02E-03	pCi/m3	
2223	696166009	11/19/2024	BETA	4.23E-02	1.96E-03	1.56E-03	pCi/m3	
2223	697367007	11/25/2024	BETA	3.60E-02	1.78E-03	1.64E-03	pCi/m3	
2223	698165013	12/4/2024	BETA	5.02E-02	1.73E-03	1.11E-03	pCi/m3	
2223	699433017	12/10/2024	BETA	4.54E-02	2.05E-03	1.64E-03	pCi/m3	
2223	700752015	12/17/2024	BETA	4.27E-02	1.82E-03	1.38E-03	pCi/m3	
2223	701911007	12/24/2024	BETA	3.23E-02	1.60E-03	1.49E-03	pCi/m3	
2223	657104006	1/24/2024	Bismuth-214	1.61E-03	7.72E-04	1.74E-03	pCi/m3	U
2223	659797011	2/20/2024	Bismuth-214	-1.02E-04	6.02E-04	2.00E-03	pCi/m3	U
2223	664161011	3/19/2024	Bismuth-214	-1.40E-04	7.09E-04	2.16E-03	pCi/m3	U
2223	669419007	4/16/2024	Bismuth-214	-1.24E-03	7.01E-04	2.11E-03	pCi/m3	U
2223	674392011	5/13/2024	Bismuth-214	4.27E-03	1.79E-03	2.85E-03	pCi/m3	UI
2223	676203011	6/11/2024	Bismuth-214	1.01E-03	9.91E-04	2.50E-03	pCi/m3	U
2223	682054011	7/8/2024	Bismuth-214	1.44E-03	8.80E-04	2.85E-03	pCi/m3	U
2223	691730011	8/6/2024	Bismuth-214	2.76E-03	1.57E-03	3.99E-03	pCi/m3	U
2223	691734002	8/27/2024	Bismuth-214	2.99E-03	9.86E-04	2.72E-03	pCi/m3	UI
2223	695577009	10/1/2024	Bismuth-214	1.60E-03	1.02E-03	2.34E-03	pCi/m3	U
2223	702719008	10/28/2024	Bismuth-214	5.69E-04	1.23E-03	4.24E-03	pCi/m3	U
2223	703169004	11/25/2024	Bismuth-214	2.25E-03	7.20E-04	2.62E-03	pCi/m3	U
2223	706986004	12/24/2024	Bismuth-214	1.02E-03	6.53E-04	2.25E-03	pCi/m3	U
2223	657104006	1/24/2024	Cerium-141	2.51E-04	7.58E-04	1.41E-03	pCi/m3	U
2223	659797011	2/20/2024	Cerium-141	-7.65E-04	4.91E-04	1.46E-03	pCi/m3	U
2223	664161011	3/19/2024	Cerium-141	6.95E-05	5.45E-04	1.75E-03	pCi/m3	U
2223	669419007	4/16/2024	Cerium-141	-8.16E-04	1.06E-03	3.12E-03	pCi/m3	U
2223	674392011	5/13/2024	Cerium-141	-1.15E-03	1.06E-03	3.12E-03	pCi/m3	U
2223	676203011	6/11/2024	Cerium-141	3.25E-04	1.46E-03	2.10E-03	pCi/m3	U
2223	682054011	7/8/2024	Cerium-141	2.32E-04	6.91E-04	2.31E-03	pCi/m3	U
2223	691730011	8/6/2024	Cerium-141	-1.75E-04	1.71E-03	5.56E-03	pCi/m3	U
2223	691734002	8/27/2024	Cerium-141	3.08E-04	8.19E-04	2.74E-03	pCi/m3	U
2223	695577009	10/1/2024	Cerium-141	-9.71E-04	6.29E-04	1.87E-03	pCi/m3	U
2223	702719008	10/28/2024	Cerium-141	1.22E-03	4.69E-03	7.00E-03	pCi/m3	U
2223	703169004	11/25/2024	Cerium-141	-5.67E-04	7.22E-04	2.24E-03	pCi/m3	U
2223	706986004	12/24/2024	Cerium-141	-1.09E-03	6.53E-04	1.92E-03	pCi/m3	U
2223	657104006	1/24/2024	Cerium-144	-1.67E-03	1.06E-03	2.76E-03	pCi/m3	U
2223	659797011	2/20/2024	Cerium-144	1.44E-03	1.01E-03	3.61E-03	pCi/m3	U
2223	664161011	3/19/2024	Cerium-144	-5.36E-04	1.12E-03	3.18E-03	pCi/m3	U
2223	669419007	4/16/2024	Cerium-144	-1.20E-03	1.34E-03	4.05E-03	pCi/m3	U
2223	674392011	5/13/2024	Cerium-144	1.02E-03	1.34E-03	4.57E-03	pCi/m3	U
2223	676203011	6/11/2024	Cerium-144	2.04E-03	1.16E-03	4.02E-03	pCi/m3	U
2223	682054011	7/8/2024	Cerium-144	-9.31E-04	9.32E-04	2.88E-03	pCi/m3	U
2223	691730011	8/6/2024	Cerium-144	-2.11E-04	1.20E-03	3.91E-03	pCi/m3	U
2223	691734002	8/27/2024	Cerium-144	6.34E-04	1.01E-03	3.43E-03	pCi/m3	U
2223	695577009	10/1/2024	Cerium-144	1.34E-03	9.75E-04	3.50E-03	pCi/m3	U
2223	702719008	10/28/2024	Cerium-144	7.77E-04	2.17E-03	7.41E-03	pCi/m3	U
2223	703169004	11/25/2024	Cerium-144	-3.70E-04	1.04E-03	3.32E-03	pCi/m3	U
2223	706986004	12/24/2024	Cerium-144	3.73E-04	1.17E-03	3.87E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	657104006	1/24/2024	Cesium-134	4.68E-04	2.67E-04	9.36E-04	pCi/m3	U
2223	659797011	2/20/2024	Cesium-134	8.26E-05	2.71E-04	9.31E-04	pCi/m3	U
2223	664161011	3/19/2024	Cesium-134	1.67E-04	3.16E-04	1.06E-03	pCi/m3	U
2223	669419007	4/16/2024	Cesium-134	3.90E-04	3.31E-04	1.21E-03	pCi/m3	U
2223	674392011	5/13/2024	Cesium-134	-5.33E-04	3.47E-04	9.98E-04	pCi/m3	U
2223	676203011	6/11/2024	Cesium-134	4.68E-05	3.55E-04	1.05E-03	pCi/m3	U
2223	682054011	7/8/2024	Cesium-134	-3.19E-04	3.67E-04	1.01E-03	pCi/m3	U
2223	691730011	8/6/2024	Cesium-134	-5.83E-04	4.97E-04	1.51E-03	pCi/m3	U
2223	691734002	8/27/2024	Cesium-134	4.89E-04	5.58E-04	1.42E-03	pCi/m3	U
2223	695577009	10/1/2024	Cesium-134	-2.28E-04	3.32E-04	1.04E-03	pCi/m3	U
2223	702719008	10/28/2024	Cesium-134	-6.19E-04	6.13E-04	1.84E-03	pCi/m3	U
2223	703169004	11/25/2024	Cesium-134	-1.45E-04	3.22E-04	1.04E-03	pCi/m3	U
2223	706986004	12/24/2024	Cesium-134	-1.16E-04	3.33E-04	1.05E-03	pCi/m3	U
2223	657104006	1/24/2024	Cesium-137	4.60E-04	1.98E-04	7.80E-04	pCi/m3	U
2223	659797011	2/20/2024	Cesium-137	3.01E-04	2.57E-04	9.39E-04	pCi/m3	U
2223	664161011	3/19/2024	Cesium-137	1.10E-04	3.25E-04	9.73E-04	pCi/m3	U
2223	669419007	4/16/2024	Cesium-137	9.98E-05	3.37E-04	1.15E-03	pCi/m3	U
2223	674392011	5/13/2024	Cesium-137	5.92E-05	3.20E-04	1.04E-03	pCi/m3	U
2223	676203011	6/11/2024	Cesium-137	4.82E-04	2.43E-04	9.33E-04	pCi/m3	U
2223	682054011	7/8/2024	Cesium-137	3.37E-04	2.52E-04	6.68E-04	pCi/m3	U
2223	691730011	8/6/2024	Cesium-137	4.26E-04	3.61E-04	1.31E-03	pCi/m3	U
2223	691734002	8/27/2024	Cesium-137	7.44E-05	3.01E-04	9.91E-04	pCi/m3	U
2223	695577009	10/1/2024	Cesium-137	5.44E-05	3.43E-04	1.10E-03	pCi/m3	U
2223	702719008	10/28/2024	Cesium-137	9.82E-04	5.48E-04	1.96E-03	pCi/m3	U
2223	703169004	11/25/2024	Cesium-137	-2.89E-04	2.45E-04	6.64E-04	pCi/m3	U
2223	706986004	12/24/2024	Cesium-137	0.00E+00	2.63E-04	8.64E-04	pCi/m3	U
2223	657104006	1/24/2024	Chromium-51	-6.76E-04	3.45E-03	1.16E-02	pCi/m3	U
2223	659797011	2/20/2024	Chromium-51	4.20E-03	3.13E-03	1.11E-02	pCi/m3	U
2223	664161011	3/19/2024	Chromium-51	-2.31E-03	4.19E-03	1.37E-02	pCi/m3	U
2223	669419007	4/16/2024	Chromium-51	-4.38E-03	6.69E-03	2.13E-02	pCi/m3	U
2223	674392011	5/13/2024	Chromium-51	-5.81E-04	8.51E-03	2.88E-02	pCi/m3	U
2223	676203011	6/11/2024	Chromium-51	2.21E-03	5.45E-03	1.81E-02	pCi/m3	U
2223	682054011	7/8/2024	Chromium-51	-3.82E-03	6.31E-03	2.07E-02	pCi/m3	U
2223	691730011	8/6/2024	Chromium-51	-6.70E-04	1.70E-02	5.77E-02	pCi/m3	U
2223	691734002	8/27/2024	Chromium-51	1.26E-03	8.14E-03	2.80E-02	pCi/m3	U
2223	695577009	10/1/2024	Chromium-51	-5.23E-03	5.74E-03	1.84E-02	pCi/m3	U
2223	702719008	10/28/2024	Chromium-51	-2.30E-02	2.42E-02	6.49E-02	pCi/m3	U
2223	703169004	11/25/2024	Chromium-51	-9.84E-03	4.91E-03	1.41E-02	pCi/m3	U
2223	706986004	12/24/2024	Chromium-51	1.06E-02	5.42E-03	2.03E-02	pCi/m3	U
2223	657104006	1/24/2024	Cobalt-57	2.29E-04	1.23E-04	4.36E-04	pCi/m3	U
2223	659797011	2/20/2024	Cobalt-57	-5.69E-05	1.12E-04	3.70E-04	pCi/m3	U
2223	664161011	3/19/2024	Cobalt-57	8.35E-05	1.43E-04	4.76E-04	pCi/m3	U
2223	669419007	4/16/2024	Cobalt-57	-9.96E-06	1.64E-04	5.26E-04	pCi/m3	U
2223	674392011	5/13/2024	Cobalt-57	7.46E-07	1.64E-04	5.38E-04	pCi/m3	U
2223	676203011	6/11/2024	Cobalt-57	3.30E-04	1.56E-04	5.53E-04	pCi/m3	U
2223	682054011	7/8/2024	Cobalt-57	1.01E-04	1.13E-04	3.94E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	691730011	8/6/2024	Cobalt-57	-1.84E-05	1.54E-04	5.09E-04	pCi/m3	U
2223	691734002	8/27/2024	Cobalt-57	2.03E-04	1.26E-04	3.35E-04	pCi/m3	U
2223	695577009	10/1/2024	Cobalt-57	-2.48E-04	1.33E-04	3.94E-04	pCi/m3	U
2223	702719008	10/28/2024	Cobalt-57	-3.76E-04	2.70E-04	8.56E-04	pCi/m3	U
2223	703169004	11/25/2024	Cobalt-57	1.30E-04	1.34E-04	4.65E-04	pCi/m3	U
2223	706986004	12/24/2024	Cobalt-57	1.88E-05	1.38E-04	4.54E-04	pCi/m3	U
2223	657104006	1/24/2024	Cobalt-58	1.82E-04	2.68E-04	9.24E-04	pCi/m3	U
2223	659797011	2/20/2024	Cobalt-58	-8.76E-05	3.35E-04	9.50E-04	pCi/m3	U
2223	664161011	3/19/2024	Cobalt-58	-2.72E-04	4.17E-04	1.08E-03	pCi/m3	U
2223	669419007	4/16/2024	Cobalt-58	8.14E-04	3.49E-04	1.45E-03	pCi/m3	U
2223	674392011	5/13/2024	Cobalt-58	3.33E-04	4.61E-04	1.67E-03	pCi/m3	U
2223	676203011	6/11/2024	Cobalt-58	-2.68E-05	3.32E-04	1.06E-03	pCi/m3	U
2223	682054011	7/8/2024	Cobalt-58	-2.06E-06	4.59E-04	1.55E-03	pCi/m3	U
2223	691730011	8/6/2024	Cobalt-58	3.85E-04	7.22E-04	2.59E-03	pCi/m3	U
2223	691734002	8/27/2024	Cobalt-58	-1.12E-04	4.46E-04	1.46E-03	pCi/m3	U
2223	695577009	10/1/2024	Cobalt-58	-1.51E-03	5.25E-04	1.05E-03	pCi/m3	U
2223	702719008	10/28/2024	Cobalt-58	1.42E-03	1.09E-03	4.03E-03	pCi/m3	U
2223	703169004	11/25/2024	Cobalt-58	7.29E-04	4.26E-04	1.65E-03	pCi/m3	U
2223	706986004	12/24/2024	Cobalt-58	-3.80E-04	3.87E-04	1.12E-03	pCi/m3	U
2223	657104006	1/24/2024	Cobalt-60	-4.86E-05	2.57E-04	8.31E-04	pCi/m3	U
2223	659797011	2/20/2024	Cobalt-60	6.12E-04	2.78E-04	1.14E-03	pCi/m3	U
2223	664161011	3/19/2024	Cobalt-60	-3.56E-06	2.59E-04	8.49E-04	pCi/m3	U
2223	669419007	4/16/2024	Cobalt-60	-4.74E-04	3.47E-04	9.06E-04	pCi/m3	U
2223	674392011	5/13/2024	Cobalt-60	-3.06E-05	3.95E-04	1.26E-03	pCi/m3	U
2223	676203011	6/11/2024	Cobalt-60	5.73E-06	3.62E-04	1.17E-03	pCi/m3	U
2223	682054011	7/8/2024	Cobalt-60	5.00E-04	3.57E-04	1.42E-03	pCi/m3	U
2223	691730011	8/6/2024	Cobalt-60	-6.20E-04	5.03E-04	1.26E-03	pCi/m3	U
2223	691734002	8/27/2024	Cobalt-60	-3.89E-04	4.07E-04	1.10E-03	pCi/m3	U
2223	695577009	10/1/2024	Cobalt-60	-5.66E-05	3.16E-04	1.04E-03	pCi/m3	U
2223	702719008	10/28/2024	Cobalt-60	6.33E-04	6.87E-04	2.47E-03	pCi/m3	U
2223	703169004	11/25/2024	Cobalt-60	3.28E-04	3.29E-04	1.21E-03	pCi/m3	U
2223	706986004	12/24/2024	Cobalt-60	5.84E-04	2.66E-04	1.12E-03	pCi/m3	U
2223	657104006	1/24/2024	Iron-59	4.96E-04	6.28E-04	2.31E-03	pCi/m3	U
2223	659797011	2/20/2024	Iron-59	9.09E-04	9.87E-04	2.76E-03	pCi/m3	U
2223	664161011	3/19/2024	Iron-59	2.22E-04	8.70E-04	3.00E-03	pCi/m3	U
2223	669419007	4/16/2024	Iron-59	1.33E-03	1.17E-03	4.44E-03	pCi/m3	U
2223	674392011	5/13/2024	Iron-59	3.63E-04	1.57E-03	5.31E-03	pCi/m3	U
2223	676203011	6/11/2024	Iron-59	-6.78E-04	9.20E-04	2.74E-03	pCi/m3	U
2223	682054011	7/8/2024	Iron-59	2.77E-03	1.05E-03	4.88E-03	pCi/m3	U
2223	691730011	8/6/2024	Iron-59	1.34E-04	2.55E-03	8.43E-03	pCi/m3	U
2223	691734002	8/27/2024	Iron-59	1.48E-03	1.90E-03	6.80E-03	pCi/m3	U
2223	695577009	10/1/2024	Iron-59	-2.74E-03	1.03E-03	1.52E-03	pCi/m3	U
2223	702719008	10/28/2024	Iron-59	-5.08E-03	3.55E-03	9.83E-03	pCi/m3	U
2223	703169004	11/25/2024	Iron-59	2.52E-03	1.10E-03	4.57E-03	pCi/m3	U
2223	706986004	12/24/2024	Iron-59	-1.27E-03	8.92E-04	2.48E-03	pCi/m3	U
2223	657104006	1/24/2024	Lanthanum-140	-1.86E-03	1.59E-03	3.87E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	659797011	2/20/2024	Lanthanum-140	-1.22E-03	1.30E-03	3.23E-03	pCi/m3	U
2223	664161011	3/19/2024	Lanthanum-140	5.79E-04	2.53E-03	8.51E-03	pCi/m3	U
2223	669419007	4/16/2024	Lanthanum-140	-8.00E-03	7.09E-03	1.89E-02	pCi/m3	U
2223	674392011	5/13/2024	Lanthanum-140	2.98E-03	1.25E-02	4.33E-02	pCi/m3	U
2223	676203011	6/11/2024	Lanthanum-140	6.48E-03	4.65E-03	1.78E-02	pCi/m3	U
2223	682054011	7/8/2024	Lanthanum-140	3.15E-03	6.15E-03	2.27E-02	pCi/m3	U
2223	691730011	8/6/2024	Lanthanum-140	-5.40E-02	5.07E-02	1.32E-01	pCi/m3	U
2223	691734002	8/27/2024	Lanthanum-140	-1.87E-02	1.58E-02	4.20E-02	pCi/m3	U
2223	695577009	10/1/2024	Lanthanum-140	-3.50E-03	6.70E-03	2.05E-02	pCi/m3	U
2223	702719008	10/28/2024	Lanthanum-140	-3.72E-02	3.19E-02	7.88E-02	pCi/m3	U
2223	703169004	11/25/2024	Lanthanum-140	-6.09E-03	4.44E-03	1.07E-02	pCi/m3	U
2223	706986004	12/24/2024	Lanthanum-140	-2.52E-03	4.34E-03	1.31E-02	pCi/m3	U
2223	657104006	1/24/2024	Lead-210	7.33E-02	3.52E-02	5.29E-02	pCi/m3	UI
2223	659797011	2/20/2024	Lead-210	1.31E-02	1.80E-02	3.78E-02	pCi/m3	U
2223	664161011	3/19/2024	Lead-210	6.81E-02	4.92E-02	6.65E-02	pCi/m3	UI
2223	669419007	4/16/2024	Lead-210	1.85E-01	1.30E-01	4.72E-01	pCi/m3	U
2223	674392011	5/13/2024	Lead-210	-2.99E-02	3.35E-02	1.04E-01	pCi/m3	U
2223	676203011	6/11/2024	Lead-210	2.55E-01	1.26E-01	4.59E-01	pCi/m3	U
2223	682054011	7/8/2024	Lead-210	2.43E-02	3.90E-03	4.94E-03	pCi/m3	
2223	691730011	8/6/2024	Lead-210	2.09E-02	4.44E-03	5.84E-03	pCi/m3	
2223	691734002	8/27/2024	Lead-210	3.44E-02	3.97E-03	5.19E-03	pCi/m3	
2223	695577009	10/1/2024	Lead-210	4.13E-02	3.88E-02	1.25E-01	pCi/m3	U
2223	702719008	10/28/2024	Lead-210	4.67E-02	6.56E-03	9.64E-03	pCi/m3	
2223	703169004	11/25/2024	Lead-210	6.46E-02	2.71E-02	1.04E-01	pCi/m3	U
2223	706986004	12/24/2024	Lead-210	1.23E-02	2.02E-02	7.02E-02	pCi/m3	U
2223	657104006	1/24/2024	Lead-212	6.08E-04	7.18E-04	1.62E-03	pCi/m3	U
2223	659797011	2/20/2024	Lead-212	8.44E-04	6.04E-04	1.53E-03	pCi/m3	U
2223	664161011	3/19/2024	Lead-212	1.23E-03	7.54E-04	1.13E-03	pCi/m3	UI
2223	669419007	4/16/2024	Lead-212	4.19E-04	8.54E-04	1.86E-03	pCi/m3	U
2223	674392011	5/13/2024	Lead-212	1.31E-03	6.80E-04	1.10E-03	pCi/m3	UI
2223	676203011	6/11/2024	Lead-212	2.72E-04	6.55E-04	1.51E-03	pCi/m3	U
2223	682054011	7/8/2024	Lead-212	1.46E-03	4.80E-04	1.16E-03	pCi/m3	
2223	691730011	8/6/2024	Lead-212	1.47E-03	5.65E-04	1.18E-03	pCi/m3	UI
2223	691734002	8/27/2024	Lead-212	9.91E-04	6.67E-04	1.06E-03	pCi/m3	U
2223	695577009	10/1/2024	Lead-212	1.06E-03	5.13E-04	1.49E-03	pCi/m3	U
2223	702719008	10/28/2024	Lead-212	1.11E-03	9.22E-04	3.10E-03	pCi/m3	U
2223	703169004	11/25/2024	Lead-212	6.68E-04	6.13E-04	1.23E-03	pCi/m3	U
2223	706986004	12/24/2024	Lead-212	1.30E-04	5.20E-04	9.81E-04	pCi/m3	U
2223	657104006	1/24/2024	Lead-214	6.72E-04	4.17E-04	1.53E-03	pCi/m3	U
2223	659797011	2/20/2024	Lead-214	8.53E-04	6.82E-04	1.75E-03	pCi/m3	U
2223	664161011	3/19/2024	Lead-214	2.02E-03	1.01E-03	2.16E-03	pCi/m3	U
2223	669419007	4/16/2024	Lead-214	4.14E-05	8.71E-04	2.09E-03	pCi/m3	U
2223	674392011	5/13/2024	Lead-214	4.05E-04	6.02E-04	1.93E-03	pCi/m3	U
2223	676203011	6/11/2024	Lead-214	1.61E-03	8.05E-04	2.09E-03	pCi/m3	U
2223	682054011	7/8/2024	Lead-214	1.87E-03	8.35E-04	2.27E-03	pCi/m3	U
2223	691730011	8/6/2024	Lead-214	1.06E-03	6.95E-04	2.55E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	691734002	8/27/2024	Lead-214	2.50E-03	7.52E-04	1.57E-03	pCi/m3	
2223	695577009	10/1/2024	Lead-214	8.40E-04	8.26E-04	2.10E-03	pCi/m3	U
2223	702719008	10/28/2024	Lead-214	5.42E-04	1.23E-03	3.75E-03	pCi/m3	U
2223	703169004	11/25/2024	Lead-214	1.22E-03	1.00E-03	2.05E-03	pCi/m3	U
2223	706986004	12/24/2024	Lead-214	2.42E-04	6.95E-04	1.89E-03	pCi/m3	U
2223	657104006	1/24/2024	Manganese-54	1.56E-04	2.64E-04	8.09E-04	pCi/m3	U
2223	659797011	2/20/2024	Manganese-54	-7.80E-05	2.49E-04	8.09E-04	pCi/m3	U
2223	664161011	3/19/2024	Manganese-54	4.53E-04	3.15E-04	1.15E-03	pCi/m3	U
2223	669419007	4/16/2024	Manganese-54	2.59E-04	3.11E-04	1.10E-03	pCi/m3	U
2223	674392011	5/13/2024	Manganese-54	-5.53E-05	3.19E-04	1.06E-03	pCi/m3	U
2223	676203011	6/11/2024	Manganese-54	-3.90E-04	2.75E-04	7.30E-04	pCi/m3	U
2223	682054011	7/8/2024	Manganese-54	-4.33E-04	2.97E-04	8.00E-04	pCi/m3	U
2223	691730011	8/6/2024	Manganese-54	-5.19E-04	3.87E-04	1.07E-03	pCi/m3	U
2223	691734002	8/27/2024	Manganese-54	2.37E-04	3.36E-04	1.21E-03	pCi/m3	U
2223	695577009	10/1/2024	Manganese-54	3.30E-04	3.01E-04	1.11E-03	pCi/m3	U
2223	702719008	10/28/2024	Manganese-54	2.33E-05	5.55E-04	1.64E-03	pCi/m3	U
2223	703169004	11/25/2024	Manganese-54	-6.58E-05	2.50E-04	8.15E-04	pCi/m3	U
2223	706986004	12/24/2024	Manganese-54	1.54E-04	3.15E-04	1.06E-03	pCi/m3	U
2223	657104006	1/24/2024	Molybdenum-99	-1.02E+01	1.72E+01	0.00E+00	pCi/m3	U
2223	659797011	2/20/2024	Molybdenum-99	5.89E+00	5.07E+00	0.00E+00	pCi/m3	UI
2223	664161011	3/19/2024	Molybdenum-99	-2.17E+00	2.18E+01	0.00E+00	pCi/m3	U
2223	669419007	4/16/2024	Molybdenum-99	2.59E+02	9.92E+02	0.00E+00	pCi/m3	UI
2223	674392011	5/13/2024	Molybdenum-99	1.71E+04	2.00E+04	0.00E+00	pCi/m3	UI
2223	676203011	6/11/2024	Molybdenum-99	-1.07E+02	1.37E+02	0.00E+00	pCi/m3	U
2223	682054011	7/8/2024	Molybdenum-99	-6.33E+02	2.22E+03	0.00E+00	pCi/m3	U
2223	691730011	8/6/2024	Molybdenum-99	-1.60E+06	1.02E+07	0.00E+00	pCi/m3	U
2223	691734002	8/27/2024	Molybdenum-99	4.33E+04	3.49E+04	0.00E+00	pCi/m3	UI
2223	695577009	10/1/2024	Molybdenum-99	-3.38E+01	8.89E+02	0.00E+00	pCi/m3	U
2223	702719008	10/28/2024	Molybdenum-99	3.15E+05	4.25E+05	0.00E+00	pCi/m3	UI
2223	703169004	11/25/2024	Molybdenum-99	7.03E+02	5.37E+02	0.00E+00	pCi/m3	UI
2223	706986004	12/24/2024	Molybdenum-99	-3.64E+02	3.58E+02	0.00E+00	pCi/m3	U
2223	657104006	1/24/2024	Niobium-95	-5.43E-04	3.36E-04	9.06E-04	pCi/m3	U
2223	659797011	2/20/2024	Niobium-95	-3.83E-04	3.52E-04	9.65E-04	pCi/m3	U
2223	664161011	3/19/2024	Niobium-95	3.48E-04	3.86E-04	1.35E-03	pCi/m3	U
2223	669419007	4/16/2024	Niobium-95	8.92E-05	4.39E-04	1.48E-03	pCi/m3	U
2223	674392011	5/13/2024	Niobium-95	4.91E-05	5.40E-04	1.85E-03	pCi/m3	U
2223	676203011	6/11/2024	Niobium-95	1.79E-03	9.60E-04	1.10E-03	pCi/m3	UI
2223	682054011	7/8/2024	Niobium-95	6.24E-04	4.77E-04	1.83E-03	pCi/m3	U
2223	691730011	8/6/2024	Niobium-95	5.91E-04	8.74E-04	3.16E-03	pCi/m3	U
2223	691734002	8/27/2024	Niobium-95	1.15E-04	6.21E-04	1.91E-03	pCi/m3	U
2223	695577009	10/1/2024	Niobium-95	-3.85E-04	4.41E-04	1.36E-03	pCi/m3	U
2223	702719008	10/28/2024	Niobium-95	-8.63E-04	9.84E-04	3.01E-03	pCi/m3	U
2223	703169004	11/25/2024	Niobium-95	7.17E-04	4.05E-04	1.50E-03	pCi/m3	U
2223	706986004	12/24/2024	Niobium-95	-6.89E-04	4.32E-04	1.19E-03	pCi/m3	U
2223	657104006	1/24/2024	Potassium-40	1.39E-02	5.18E-03	3.97E-03	pCi/m3	UI
2223	659797011	2/20/2024	Potassium-40	1.01E-02	4.64E-03	7.82E-03	pCi/m3	UI

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	664161011	3/19/2024	Potassium-40	1.66E-02	6.27E-03	7.53E-03	pCi/m3	UI
2223	669419007	4/16/2024	Potassium-40	7.63E-03	5.03E-03	1.88E-02	pCi/m3	U
2223	674392011	5/13/2024	Potassium-40	2.13E-02	5.77E-03	1.08E-02	pCi/m3	
2223	676203011	6/11/2024	Potassium-40	7.78E-03	5.50E-03	1.02E-02	pCi/m3	U
2223	682054011	7/8/2024	Potassium-40	1.71E-02	4.57E-03	7.00E-03	pCi/m3	
2223	691730011	8/6/2024	Potassium-40	4.68E-03	6.91E-03	2.63E-02	pCi/m3	U
2223	691734002	8/27/2024	Potassium-40	1.24E-02	5.10E-03	8.86E-03	pCi/m3	UI
2223	695577009	10/1/2024	Potassium-40	1.39E-02	6.89E-03	1.11E-02	pCi/m3	UI
2223	702719008	10/28/2024	Potassium-40	1.65E-02	1.20E-02	1.68E-02	pCi/m3	U
2223	703169004	11/25/2024	Potassium-40	6.60E-03	4.63E-03	5.28E-03	pCi/m3	UI
2223	706986004	12/24/2024	Potassium-40	5.56E-04	6.55E-03	9.34E-03	pCi/m3	U
2223	657104006	1/24/2024	Radium-226	6.72E-04	4.17E-04	1.53E-03	pCi/m3	U
2223	659797011	2/20/2024	Radium-226	8.53E-04	6.82E-04	1.75E-03	pCi/m3	U
2223	664161011	3/19/2024	Radium-226	2.02E-03	1.01E-03	2.16E-03	pCi/m3	U
2223	669419007	4/16/2024	Radium-226	4.14E-05	8.71E-04	2.09E-03	pCi/m3	U
2223	674392011	5/13/2024	Radium-226	4.05E-04	6.02E-04	1.93E-03	pCi/m3	U
2223	676203011	6/11/2024	Radium-226	1.61E-03	8.05E-04	2.09E-03	pCi/m3	U
2223	682054011	7/8/2024	Radium-226	1.87E-03	8.35E-04	2.27E-03	pCi/m3	U
2223	691730011	8/6/2024	Radium-226	1.06E-03	6.95E-04	2.55E-03	pCi/m3	U
2223	691734002	8/27/2024	Radium-226	2.50E-03	7.52E-04	1.57E-03	pCi/m3	
2223	695577009	10/1/2024	Radium-226	8.40E-04	8.26E-04	2.10E-03	pCi/m3	U
2223	702719008	10/28/2024	Radium-226	5.42E-04	1.23E-03	3.75E-03	pCi/m3	U
2223	703169004	11/25/2024	Radium-226	1.22E-03	1.00E-03	2.05E-03	pCi/m3	U
2223	706986004	12/24/2024	Radium-226	2.42E-04	6.95E-04	1.89E-03	pCi/m3	U
2223	657104006	1/24/2024	Radium-228	1.27E-03	1.34E-03	3.56E-03	pCi/m3	U
2223	659797011	2/20/2024	Radium-228	1.95E-03	1.14E-03	3.55E-03	pCi/m3	U
2223	664161011	3/19/2024	Radium-228	5.78E-04	1.44E-03	4.53E-03	pCi/m3	U
2223	669419007	4/16/2024	Radium-228	3.92E-03	1.55E-03	5.77E-03	pCi/m3	U
2223	674392011	5/13/2024	Radium-228	8.24E-04	1.48E-03	5.05E-03	pCi/m3	U
2223	676203011	6/11/2024	Radium-228	7.95E-04	1.32E-03	4.82E-03	pCi/m3	U
2223	682054011	7/8/2024	Radium-228	1.20E-04	9.38E-04	3.20E-03	pCi/m3	U
2223	691730011	8/6/2024	Radium-228	2.96E-03	1.93E-03	5.92E-03	pCi/m3	U
2223	691734002	8/27/2024	Radium-228	1.00E-03	1.39E-03	4.97E-03	pCi/m3	U
2223	695577009	10/1/2024	Radium-228	4.99E-04	1.27E-03	4.36E-03	pCi/m3	U
2223	702719008	10/28/2024	Radium-228	-3.36E-03	3.07E-03	9.63E-03	pCi/m3	U
2223	703169004	11/25/2024	Radium-228	3.30E-03	1.36E-03	5.15E-03	pCi/m3	U
2223	706986004	12/24/2024	Radium-228	2.70E-03	1.69E-03	5.27E-03	pCi/m3	U
2223	657104006	1/24/2024	Ruthenium-103	-2.72E-04	3.33E-04	1.03E-03	pCi/m3	U
2223	659797011	2/20/2024	Ruthenium-103	2.26E-04	3.03E-04	1.03E-03	pCi/m3	U
2223	664161011	3/19/2024	Ruthenium-103	-5.36E-05	3.33E-04	1.08E-03	pCi/m3	U
2223	669419007	4/16/2024	Ruthenium-103	-6.99E-04	5.36E-04	1.48E-03	pCi/m3	U
2223	674392011	5/13/2024	Ruthenium-103	7.05E-04	7.28E-04	2.57E-03	pCi/m3	U
2223	676203011	6/11/2024	Ruthenium-103	3.92E-04	4.14E-04	1.49E-03	pCi/m3	U
2223	682054011	7/8/2024	Ruthenium-103	5.60E-04	4.87E-04	1.80E-03	pCi/m3	U
2223	691730011	8/6/2024	Ruthenium-103	-8.58E-04	1.08E-03	3.22E-03	pCi/m3	U
2223	691734002	8/27/2024	Ruthenium-103	-2.94E-04	6.92E-04	2.18E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	695577009	10/1/2024	Ruthenium-103	-5.85E-04	4.94E-04	1.43E-03	pCi/m3	U
2223	702719008	10/28/2024	Ruthenium-103	-1.20E-03	1.50E-03	4.45E-03	pCi/m3	U
2223	703169004	11/25/2024	Ruthenium-103	1.14E-03	5.04E-04	1.95E-03	pCi/m3	U
2223	706986004	12/24/2024	Ruthenium-103	4.91E-04	5.33E-04	1.73E-03	pCi/m3	U
2223	657104006	1/24/2024	Ruthenium-106	-2.13E-03	2.12E-03	6.34E-03	pCi/m3	U
2223	659797011	2/20/2024	Ruthenium-106	9.83E-04	2.09E-03	7.34E-03	pCi/m3	U
2223	664161011	3/19/2024	Ruthenium-106	-2.41E-03	2.48E-03	7.25E-03	pCi/m3	U
2223	669419007	4/16/2024	Ruthenium-106	-1.14E-03	2.77E-03	9.02E-03	pCi/m3	U
2223	674392011	5/13/2024	Ruthenium-106	8.63E-04	2.97E-03	9.81E-03	pCi/m3	U
2223	676203011	6/11/2024	Ruthenium-106	-3.24E-06	2.21E-03	7.28E-03	pCi/m3	U
2223	682054011	7/8/2024	Ruthenium-106	-1.44E-03	2.67E-03	8.05E-03	pCi/m3	U
2223	691730011	8/6/2024	Ruthenium-106	1.40E-03	3.39E-03	1.14E-02	pCi/m3	U
2223	691734002	8/27/2024	Ruthenium-106	3.01E-03	2.38E-03	8.80E-03	pCi/m3	U
2223	695577009	10/1/2024	Ruthenium-106	-5.06E-04	2.64E-03	8.28E-03	pCi/m3	U
2223	702719008	10/28/2024	Ruthenium-106	9.51E-03	5.57E-03	2.10E-02	pCi/m3	U
2223	703169004	11/25/2024	Ruthenium-106	1.74E-03	2.62E-03	8.90E-03	pCi/m3	U
2223	706986004	12/24/2024	Ruthenium-106	-1.14E-04	2.46E-03	8.08E-03	pCi/m3	U
2223	657104006	1/24/2024	Selenium-75	7.09E-06	2.60E-04	8.93E-04	pCi/m3	U
2223	659797011	2/20/2024	Selenium-75	3.76E-05	2.75E-04	9.15E-04	pCi/m3	U
2223	664161011	3/19/2024	Selenium-75	-1.47E-04	3.12E-04	1.04E-03	pCi/m3	U
2223	669419007	4/16/2024	Selenium-75	4.21E-04	3.83E-04	1.32E-03	pCi/m3	U
2223	674392011	5/13/2024	Selenium-75	3.43E-04	4.49E-04	1.37E-03	pCi/m3	U
2223	676203011	6/11/2024	Selenium-75	4.21E-05	3.32E-04	1.10E-03	pCi/m3	U
2223	682054011	7/8/2024	Selenium-75	1.10E-04	3.73E-04	1.19E-03	pCi/m3	U
2223	691730011	8/6/2024	Selenium-75	1.14E-03	5.57E-04	1.83E-03	pCi/m3	U
2223	691734002	8/27/2024	Selenium-75	-1.81E-04	3.75E-04	1.13E-03	pCi/m3	U
2223	695577009	10/1/2024	Selenium-75	-5.22E-04	3.99E-04	1.14E-03	pCi/m3	U
2223	702719008	10/28/2024	Selenium-75	7.67E-04	7.67E-04	2.66E-03	pCi/m3	U
2223	703169004	11/25/2024	Selenium-75	3.78E-04	3.21E-04	1.18E-03	pCi/m3	U
2223	706986004	12/24/2024	Selenium-75	7.94E-05	3.83E-04	1.17E-03	pCi/m3	U
2223	657104006	1/24/2024	Silver-108m	-7.46E-05	1.63E-04	5.25E-04	pCi/m3	U
2223	659797011	2/20/2024	Silver-108m	5.46E-04	2.48E-04	5.34E-04	pCi/m3	UI
2223	664161011	3/19/2024	Silver-108m	-1.51E-04	2.09E-04	6.55E-04	pCi/m3	U
2223	669419007	4/16/2024	Silver-108m	1.57E-04	2.28E-04	7.76E-04	pCi/m3	U
2223	674392011	5/13/2024	Silver-108m	-1.93E-04	2.28E-04	6.11E-04	pCi/m3	U
2223	676203011	6/11/2024	Silver-108m	-2.41E-04	1.87E-04	5.79E-04	pCi/m3	U
2223	682054011	7/8/2024	Silver-108m	-1.77E-04	2.34E-04	7.34E-04	pCi/m3	U
2223	691730011	8/6/2024	Silver-108m	1.02E-04	2.66E-04	9.11E-04	pCi/m3	U
2223	691734002	8/27/2024	Silver-108m	3.07E-05	2.21E-04	7.44E-04	pCi/m3	U
2223	695577009	10/1/2024	Silver-108m	1.39E-04	2.04E-04	7.11E-04	pCi/m3	U
2223	702719008	10/28/2024	Silver-108m	7.18E-04	3.93E-04	1.44E-03	pCi/m3	U
2223	703169004	11/25/2024	Silver-108m	1.17E-03	5.12E-04	7.31E-04	pCi/m3	UI
2223	706986004	12/24/2024	Silver-108m	-1.79E-04	2.70E-04	7.66E-04	pCi/m3	U
2223	657104006	1/24/2024	Silver-110m	-2.45E-06	3.28E-04	1.04E-03	pCi/m3	U
2223	659797011	2/20/2024	Silver-110m	-1.34E-05	3.60E-04	1.19E-03	pCi/m3	U
2223	664161011	3/19/2024	Silver-110m	2.99E-04	4.01E-04	1.46E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	669419007	4/16/2024	Silver-110m	5.02E-04	4.88E-04	1.75E-03	pCi/m3	U
2223	674392011	5/13/2024	Silver-110m	-9.07E-04	4.76E-04	9.68E-04	pCi/m3	U
2223	676203011	6/11/2024	Silver-110m	-2.30E-04	3.47E-04	1.08E-03	pCi/m3	U
2223	682054011	7/8/2024	Silver-110m	-4.88E-04	3.90E-04	1.04E-03	pCi/m3	U
2223	691730011	8/6/2024	Silver-110m	6.09E-04	5.69E-04	2.16E-03	pCi/m3	U
2223	691734002	8/27/2024	Silver-110m	-1.75E-04	4.81E-04	1.54E-03	pCi/m3	U
2223	695577009	10/1/2024	Silver-110m	3.20E-04	3.81E-04	1.38E-03	pCi/m3	U
2223	702719008	10/28/2024	Silver-110m	-9.05E-04	8.92E-04	2.17E-03	pCi/m3	U
2223	703169004	11/25/2024	Silver-110m	-3.76E-04	4.13E-04	1.08E-03	pCi/m3	U
2223	706986004	12/24/2024	Silver-110m	4.06E-04	4.64E-04	1.60E-03	pCi/m3	U
2223	657104006	1/24/2024	Tellurium-132	2.65E-01	3.83E-01	0.00E+00	pCi/m3	UI
2223	659797011	2/20/2024	Tellurium-132	3.86E-02	1.45E-01	0.00E+00	pCi/m3	UI
2223	664161011	3/19/2024	Tellurium-132	-6.02E-01	5.22E-01	0.00E+00	pCi/m3	U
2223	669419007	4/16/2024	Tellurium-132	-1.36E-01	1.19E+01	0.00E+00	pCi/m3	U
2223	674392011	5/13/2024	Tellurium-132	-1.80E+02	1.69E+02	0.00E+00	pCi/m3	U
2223	676203011	6/11/2024	Tellurium-132	3.41E+00	4.71E+00	0.00E+00	pCi/m3	UI
2223	682054011	7/8/2024	Tellurium-132	-2.94E+00	2.01E+01	0.00E+00	pCi/m3	U
2223	691730011	8/6/2024	Tellurium-132	7.40E+02	2.92E+04	0.00E+00	pCi/m3	UI
2223	691734002	8/27/2024	Tellurium-132	-2.59E+02	2.82E+02	0.00E+00	pCi/m3	U
2223	695577009	10/1/2024	Tellurium-132	-1.40E+00	1.09E+01	0.00E+00	pCi/m3	U
2223	702719008	10/28/2024	Tellurium-132	1.52E+03	2.41E+03	0.00E+00	pCi/m3	UI
2223	703169004	11/25/2024	Tellurium-132	-8.48E+00	8.14E+00	0.00E+00	pCi/m3	U
2223	706986004	12/24/2024	Tellurium-132	1.08E+00	5.80E+00	0.00E+00	pCi/m3	UI
2223	657104006	1/24/2024	Thallium-208	4.30E-04	2.97E-04	6.51E-04	pCi/m3	U
2223	659797011	2/20/2024	Thallium-208	5.52E-04	3.89E-04	5.11E-04	pCi/m3	UI
2223	664161011	3/19/2024	Thallium-208	2.70E-04	5.69E-04	7.41E-04	pCi/m3	U
2223	669419007	4/16/2024	Thallium-208	-1.03E-04	3.72E-04	1.25E-03	pCi/m3	U
2223	674392011	5/13/2024	Thallium-208	-5.21E-05	3.35E-04	9.85E-04	pCi/m3	U
2223	676203011	6/11/2024	Thallium-208	1.44E-03	2.98E-04	4.07E-04	pCi/m3	UI
2223	682054011	7/8/2024	Thallium-208	2.57E-04	3.62E-04	1.24E-03	pCi/m3	U
2223	691730011	8/6/2024	Thallium-208	2.95E-04	4.17E-04	1.37E-03	pCi/m3	U
2223	691734002	8/27/2024	Thallium-208	8.39E-05	3.53E-04	1.03E-03	pCi/m3	U
2223	695577009	10/1/2024	Thallium-208	1.43E-03	5.83E-04	6.53E-04	pCi/m3	UI
2223	702719008	10/28/2024	Thallium-208	-1.05E-04	5.94E-04	1.97E-03	pCi/m3	U
2223	703169004	11/25/2024	Thallium-208	-6.62E-04	3.24E-04	8.96E-04	pCi/m3	U
2223	706986004	12/24/2024	Thallium-208	4.15E-04	4.89E-04	7.71E-04	pCi/m3	U
2223	657104006	1/24/2024	Thorium-228	6.08E-04	7.18E-04	1.62E-03	pCi/m3	U
2223	659797011	2/20/2024	Thorium-228	8.44E-04	6.04E-04	1.53E-03	pCi/m3	U
2223	664161011	3/19/2024	Thorium-228	1.23E-03	7.54E-04	1.13E-03	pCi/m3	UI
2223	669419007	4/16/2024	Thorium-228	4.19E-04	8.54E-04	1.86E-03	pCi/m3	U
2223	674392011	5/13/2024	Thorium-228	1.31E-03	6.80E-04	1.10E-03	pCi/m3	UI
2223	676203011	6/11/2024	Thorium-228	2.72E-04	6.55E-04	1.51E-03	pCi/m3	U
2223	682054011	7/8/2024	Thorium-228	1.46E-03	4.80E-04	1.16E-03	pCi/m3	U
2223	691730011	8/6/2024	Thorium-228	1.47E-03	5.65E-04	1.18E-03	pCi/m3	UI
2223	691734002	8/27/2024	Thorium-228	9.91E-04	6.67E-04	1.06E-03	pCi/m3	U
2223	695577009	10/1/2024	Thorium-228	1.06E-03	5.13E-04	1.49E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	702719008	10/28/2024	Thorium-228	1.11E-03	9.22E-04	3.10E-03	pCi/m3	U
2223	703169004	11/25/2024	Thorium-228	6.68E-04	6.13E-04	1.23E-03	pCi/m3	U
2223	706986004	12/24/2024	Thorium-228	1.30E-04	5.20E-04	9.81E-04	pCi/m3	U
2223	657104006	1/24/2024	Thorium-230	6.72E-04	4.17E-04	1.53E-03	pCi/m3	U
2223	659797011	2/20/2024	Thorium-230	8.53E-04	6.82E-04	1.75E-03	pCi/m3	U
2223	664161011	3/19/2024	Thorium-230	2.02E-03	1.01E-03	2.16E-03	pCi/m3	U
2223	669419007	4/16/2024	Thorium-230	4.14E-05	8.71E-04	2.09E-03	pCi/m3	U
2223	674392011	5/13/2024	Thorium-230	4.05E-04	6.02E-04	1.93E-03	pCi/m3	U
2223	676203011	6/11/2024	Thorium-230	1.61E-03	8.05E-04	2.09E-03	pCi/m3	U
2223	682054011	7/8/2024	Thorium-230	1.87E-03	8.35E-04	2.27E-03	pCi/m3	U
2223	691730011	8/6/2024	Thorium-230	1.06E-03	6.94E-04	2.55E-03	pCi/m3	U
2223	691734002	8/27/2024	Thorium-230	2.50E-03	7.52E-04	1.57E-03	pCi/m3	U
2223	695577009	10/1/2024	Thorium-230	8.40E-04	8.26E-04	2.10E-03	pCi/m3	U
2223	702719008	10/28/2024	Thorium-230	5.42E-04	1.23E-03	3.75E-03	pCi/m3	U
2223	703169004	11/25/2024	Thorium-230	1.22E-03	1.00E-03	2.05E-03	pCi/m3	U
2223	706986004	12/24/2024	Thorium-230	2.42E-04	6.95E-04	1.89E-03	pCi/m3	U
2223	657104006	1/24/2024	Thorium-232	1.27E-03	1.34E-03	3.56E-03	pCi/m3	U
2223	659797011	2/20/2024	Thorium-232	1.95E-03	1.14E-03	3.55E-03	pCi/m3	U
2223	664161011	3/19/2024	Thorium-232	5.78E-04	1.44E-03	4.53E-03	pCi/m3	U
2223	669419007	4/16/2024	Thorium-232	3.92E-03	1.55E-03	5.77E-03	pCi/m3	U
2223	674392011	5/13/2024	Thorium-232	8.24E-04	1.48E-03	5.05E-03	pCi/m3	U
2223	676203011	6/11/2024	Thorium-232	7.95E-04	1.32E-03	4.82E-03	pCi/m3	U
2223	682054011	7/8/2024	Thorium-232	1.20E-04	9.38E-04	3.20E-03	pCi/m3	U
2223	691730011	8/6/2024	Thorium-232	2.96E-03	1.93E-03	5.92E-03	pCi/m3	U
2223	691734002	8/27/2024	Thorium-232	1.00E-03	1.39E-03	4.97E-03	pCi/m3	U
2223	695577009	10/1/2024	Thorium-232	4.99E-04	1.27E-03	4.36E-03	pCi/m3	U
2223	702719008	10/28/2024	Thorium-232	-3.36E-03	3.07E-03	9.63E-03	pCi/m3	U
2223	703169004	11/25/2024	Thorium-232	3.30E-03	1.36E-03	5.15E-03	pCi/m3	U
2223	706986004	12/24/2024	Thorium-232	2.70E-03	1.69E-03	5.27E-03	pCi/m3	U
2223	657104006	1/24/2024	Thorium-234	1.82E-02	1.08E-02	1.90E-02	pCi/m3	U
2223	659797011	2/20/2024	Thorium-234	3.07E-03	1.04E-02	1.66E-02	pCi/m3	U
2223	664161011	3/19/2024	Thorium-234	6.58E-03	1.08E-02	2.11E-02	pCi/m3	U
2223	669419007	4/16/2024	Thorium-234	-3.86E-03	1.86E-02	5.68E-02	pCi/m3	U
2223	674392011	5/13/2024	Thorium-234	-1.21E-02	8.69E-03	2.62E-02	pCi/m3	U
2223	676203011	6/11/2024	Thorium-234	8.49E-03	1.56E-02	4.99E-02	pCi/m3	U
2223	682054011	7/8/2024	Thorium-234	4.86E-03	3.74E-03	1.32E-02	pCi/m3	U
2223	691730011	8/6/2024	Thorium-234	5.18E-04	1.84E-03	6.45E-03	pCi/m3	U
2223	691734002	8/27/2024	Thorium-234	9.64E-04	1.61E-03	5.72E-03	pCi/m3	U
2223	695577009	10/1/2024	Thorium-234	3.11E-03	1.30E-02	3.06E-02	pCi/m3	U
2223	702719008	10/28/2024	Thorium-234	-5.42E-03	6.68E-03	2.34E-02	pCi/m3	U
2223	703169004	11/25/2024	Thorium-234	-1.44E-03	8.65E-03	2.84E-02	pCi/m3	U
2223	706986004	12/24/2024	Thorium-234	3.82E-03	9.50E-03	1.92E-02	pCi/m3	U
2223	657104006	1/24/2024	Uranium-234	6.72E-04	4.17E-04	1.53E-03	pCi/m3	U
2223	659797011	2/20/2024	Uranium-234	8.53E-04	6.82E-04	1.75E-03	pCi/m3	U
2223	664161011	3/19/2024	Uranium-234	2.02E-03	1.01E-03	2.16E-03	pCi/m3	U
2223	669419007	4/16/2024	Uranium-234	4.14E-05	8.71E-04	2.09E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	674392011	5/13/2024	Uranium-234	4.05E-04	6.02E-04	1.93E-03	pCi/m3	U
2223	676203011	6/11/2024	Uranium-234	1.61E-03	8.05E-04	2.09E-03	pCi/m3	U
2223	682054011	7/8/2024	Uranium-234	1.87E-03	8.35E-04	2.27E-03	pCi/m3	U
2223	691730011	8/6/2024	Uranium-234	1.06E-03	6.94E-04	2.55E-03	pCi/m3	U
2223	691734002	8/27/2024	Uranium-234	2.50E-03	7.52E-04	1.57E-03	pCi/m3	
2223	695577009	10/1/2024	Uranium-234	8.40E-04	8.26E-04	2.10E-03	pCi/m3	U
2223	702719008	10/28/2024	Uranium-234	5.42E-04	1.23E-03	3.75E-03	pCi/m3	U
2223	703169004	11/25/2024	Uranium-234	1.22E-03	1.00E-03	2.05E-03	pCi/m3	U
2223	706986004	12/24/2024	Uranium-234	2.42E-04	6.95E-04	1.89E-03	pCi/m3	U
2223	657104006	1/24/2024	Zinc-65	-7.42E-04	4.46E-04	1.14E-03	pCi/m3	U
2223	659797011	2/20/2024	Zinc-65	-7.66E-05	5.13E-04	1.65E-03	pCi/m3	U
2223	664161011	3/19/2024	Zinc-65	-1.08E-04	7.13E-04	2.03E-03	pCi/m3	U
2223	669419007	4/16/2024	Zinc-65	-6.58E-04	8.20E-04	2.53E-03	pCi/m3	U
2223	674392011	5/13/2024	Zinc-65	1.80E-04	7.00E-04	2.38E-03	pCi/m3	U
2223	676203011	6/11/2024	Zinc-65	-5.27E-04	6.66E-04	1.98E-03	pCi/m3	U
2223	682054011	7/8/2024	Zinc-65	4.46E-06	8.58E-04	2.81E-03	pCi/m3	U
2223	691730011	8/6/2024	Zinc-65	2.15E-03	1.09E-03	4.44E-03	pCi/m3	U
2223	691734002	8/27/2024	Zinc-65	-2.25E-04	6.72E-04	2.08E-03	pCi/m3	U
2223	695577009	10/1/2024	Zinc-65	1.03E-03	7.11E-04	2.70E-03	pCi/m3	U
2223	702719008	10/28/2024	Zinc-65	3.08E-03	2.92E-03	5.52E-03	pCi/m3	U
2223	703169004	11/25/2024	Zinc-65	-1.32E-03	8.66E-04	2.35E-03	pCi/m3	U
2223	706986004	12/24/2024	Zinc-65	5.61E-04	5.37E-04	2.03E-03	pCi/m3	U
2223	657104006	1/24/2024	Zirconium-95	-1.51E-04	5.37E-04	1.68E-03	pCi/m3	U
2223	659797011	2/20/2024	Zirconium-95	-6.66E-04	5.41E-04	1.61E-03	pCi/m3	U
2223	664161011	3/19/2024	Zirconium-95	7.46E-05	6.76E-04	2.19E-03	pCi/m3	U
2223	669419007	4/16/2024	Zirconium-95	-4.73E-04	7.26E-04	2.22E-03	pCi/m3	U
2223	674392011	5/13/2024	Zirconium-95	-1.44E-04	9.84E-04	3.31E-03	pCi/m3	U
2223	676203011	6/11/2024	Zirconium-95	-7.35E-04	7.84E-04	1.90E-03	pCi/m3	U
2223	682054011	7/8/2024	Zirconium-95	7.93E-04	1.09E-03	3.91E-03	pCi/m3	U
2223	691730011	8/6/2024	Zirconium-95	2.69E-03	1.34E-03	5.53E-03	pCi/m3	U
2223	691734002	8/27/2024	Zirconium-95	-7.71E-04	9.59E-04	2.98E-03	pCi/m3	U
2223	695577009	10/1/2024	Zirconium-95	-5.59E-04	6.93E-04	2.13E-03	pCi/m3	U
2223	702719008	10/28/2024	Zirconium-95	-1.73E-03	2.12E-03	6.65E-03	pCi/m3	U
2223	703169004	11/25/2024	Zirconium-95	2.16E-04	5.99E-04	2.11E-03	pCi/m3	U
2223	706986004	12/24/2024	Zirconium-95	-1.87E-04	5.86E-04	1.83E-03	pCi/m3	U
2224	657104007	1/24/2024	Actinium-228	-4.56E-04	1.17E-03	3.74E-03	pCi/m3	U
2224	659797005	2/20/2024	Actinium-228	2.15E-03	2.11E-03	4.35E-03	pCi/m3	U
2224	664161005	3/19/2024	Actinium-228	3.66E-03	1.29E-03	3.95E-03	pCi/m3	U
2224	669419005	4/16/2024	Actinium-228	3.51E-03	1.48E-03	4.74E-03	pCi/m3	U
2224	674392001	5/13/2024	Actinium-228	7.08E-04	1.84E-03	5.17E-03	pCi/m3	U
2224	676203006	6/11/2024	Actinium-228	-1.12E-03	1.43E-03	4.44E-03	pCi/m3	U
2224	682054010	7/8/2024	Actinium-228	1.83E-03	1.42E-03	5.10E-03	pCi/m3	U
2224	691730010	8/6/2024	Actinium-228	-2.96E-03	1.99E-03	5.50E-03	pCi/m3	U
2224	691734003	8/27/2024	Actinium-228	4.69E-04	1.34E-03	4.32E-03	pCi/m3	U
2224	695577008	10/1/2024	Actinium-228	-3.17E-04	1.38E-03	4.66E-03	pCi/m3	U
2224	702719009	10/28/2024	Actinium-228	2.73E-03	1.89E-03	5.70E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	703169002	11/25/2024	Actinium-228	3.64E-03	1.56E-03	4.68E-03	pCi/m3	U
2224	706986003	12/24/2024	Actinium-228	3.25E-03	1.72E-03	6.46E-03	pCi/m3	U
2224	657104007	1/24/2024	Americium-241	-1.29E-03	7.98E-04	2.18E-03	pCi/m3	U
2224	659797005	2/20/2024	Americium-241	2.92E-04	1.10E-03	3.83E-03	pCi/m3	U
2224	664161005	3/19/2024	Americium-241	-9.60E-04	6.44E-04	1.76E-03	pCi/m3	U
2224	669419005	4/16/2024	Americium-241	1.59E-03	8.38E-04	3.13E-03	pCi/m3	U
2224	674392001	5/13/2024	Americium-241	-3.56E-04	1.56E-03	4.77E-03	pCi/m3	U
2224	676203006	6/11/2024	Americium-241	1.17E-03	9.63E-04	3.40E-03	pCi/m3	U
2224	682054010	7/8/2024	Americium-241	6.56E-05	7.40E-04	2.49E-03	pCi/m3	U
2224	691730010	8/6/2024	Americium-241	7.69E-04	9.27E-04	3.05E-03	pCi/m3	U
2224	691734003	8/27/2024	Americium-241	2.42E-04	7.06E-04	2.41E-03	pCi/m3	U
2224	695577008	10/1/2024	Americium-241	-9.62E-04	8.04E-04	2.57E-03	pCi/m3	U
2224	702719009	10/28/2024	Americium-241	-1.64E-03	1.93E-03	6.24E-03	pCi/m3	U
2224	703169002	11/25/2024	Americium-241	3.53E-04	4.37E-04	1.52E-03	pCi/m3	U
2224	706986003	12/24/2024	Americium-241	4.78E-04	8.04E-04	2.85E-03	pCi/m3	U
2224	657104007	1/24/2024	Antimony-124	-1.65E-03	8.92E-04	1.98E-03	pCi/m3	U
2224	659797005	2/20/2024	Antimony-124	-3.32E-03	1.05E-03	0.00E+00	pCi/m3	U
2224	664161005	3/19/2024	Antimony-124	2.68E-04	9.14E-04	3.10E-03	pCi/m3	U
2224	669419005	4/16/2024	Antimony-124	-4.71E-03	1.64E-03	3.49E-03	pCi/m3	U
2224	674392001	5/13/2024	Antimony-124	-5.66E-04	1.66E-03	5.21E-03	pCi/m3	U
2224	676203006	6/11/2024	Antimony-124	1.30E-04	8.26E-04	2.81E-03	pCi/m3	U
2224	682054010	7/8/2024	Antimony-124	9.95E-04	9.84E-04	3.82E-03	pCi/m3	U
2224	691730010	8/6/2024	Antimony-124	-2.94E-04	2.15E-03	6.89E-03	pCi/m3	U
2224	691734003	8/27/2024	Antimony-124	-1.22E-03	1.26E-03	3.39E-03	pCi/m3	U
2224	695577008	10/1/2024	Antimony-124	8.84E-04	1.34E-03	4.87E-03	pCi/m3	U
2224	702719009	10/28/2024	Antimony-124	-2.08E-03	2.15E-03	6.06E-03	pCi/m3	U
2224	703169002	11/25/2024	Antimony-124	4.00E-04	1.18E-03	4.09E-03	pCi/m3	U
2224	706986003	12/24/2024	Antimony-124	-3.40E-04	1.68E-03	5.43E-03	pCi/m3	U
2224	657104007	1/24/2024	Antimony-125	-9.36E-05	5.24E-04	1.73E-03	pCi/m3	U
2224	659797005	2/20/2024	Antimony-125	-3.14E-04	6.43E-04	1.96E-03	pCi/m3	U
2224	664161005	3/19/2024	Antimony-125	1.70E-04	4.98E-04	1.64E-03	pCi/m3	U
2224	669419005	4/16/2024	Antimony-125	2.82E-04	5.75E-04	1.98E-03	pCi/m3	U
2224	674392001	5/13/2024	Antimony-125	6.17E-04	7.30E-04	2.57E-03	pCi/m3	U
2224	676203006	6/11/2024	Antimony-125	-4.47E-04	5.49E-04	1.69E-03	pCi/m3	U
2224	682054010	7/8/2024	Antimony-125	7.37E-04	5.88E-04	2.15E-03	pCi/m3	U
2224	691730010	8/6/2024	Antimony-125	-2.12E-03	9.47E-04	2.64E-03	pCi/m3	U
2224	691734003	8/27/2024	Antimony-125	1.17E-04	7.14E-04	2.34E-03	pCi/m3	U
2224	695577008	10/1/2024	Antimony-125	5.49E-04	6.69E-04	2.35E-03	pCi/m3	U
2224	702719009	10/28/2024	Antimony-125	-1.16E-03	7.21E-04	2.02E-03	pCi/m3	U
2224	703169002	11/25/2024	Antimony-125	2.94E-03	1.12E-03	2.12E-03	pCi/m3	UI
2224	706986003	12/24/2024	Antimony-125	4.89E-04	6.35E-04	2.24E-03	pCi/m3	U
2224	657104007	1/24/2024	Barium-140	-1.22E-03	4.62E-03	1.49E-02	pCi/m3	U
2224	659797005	2/20/2024	Barium-140	-4.03E-03	5.08E-03	1.35E-02	pCi/m3	U
2224	664161005	3/19/2024	Barium-140	5.94E-03	4.23E-03	1.58E-02	pCi/m3	U
2224	669419005	4/16/2024	Barium-140	-2.38E-02	1.42E-02	4.02E-02	pCi/m3	U
2224	674392001	5/13/2024	Barium-140	-1.12E-02	2.63E-02	7.88E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	676203006	6/11/2024	Barium-140	-1.14E-03	9.93E-03	2.84E-02	pCi/m3	U
2224	682054010	7/8/2024	Barium-140	2.41E-02	1.63E-02	5.99E-02	pCi/m3	U
2224	691730010	8/6/2024	Barium-140	1.06E-01	1.14E-01	4.05E-01	pCi/m3	U
2224	691734003	8/27/2024	Barium-140	-8.52E-03	3.17E-02	1.04E-01	pCi/m3	U
2224	695577008	10/1/2024	Barium-140	-1.99E-02	1.48E-02	4.23E-02	pCi/m3	U
2224	702719009	10/28/2024	Barium-140	2.42E-02	5.99E-02	1.87E-01	pCi/m3	U
2224	703169002	11/25/2024	Barium-140	-4.23E-03	9.41E-03	2.95E-02	pCi/m3	U
2224	706986003	12/24/2024	Barium-140	1.25E-02	1.09E-02	3.95E-02	pCi/m3	U
2224	657104007	1/24/2024	Beryllium-7	6.40E-02	6.51E-03	8.36E-03	pCi/m3	
2224	659797005	2/20/2024	Beryllium-7	1.07E-01	7.76E-03	1.06E-02	pCi/m3	
2224	664161005	3/19/2024	Beryllium-7	8.96E-02	7.82E-03	7.51E-03	pCi/m3	
2224	669419005	4/16/2024	Beryllium-7	1.13E-01	1.09E-02	1.27E-02	pCi/m3	
2224	674392001	5/13/2024	Beryllium-7	1.24E-01	1.20E-02	1.40E-02	pCi/m3	
2224	676203006	6/11/2024	Beryllium-7	1.44E-01	1.05E-02	1.02E-02	pCi/m3	
2224	682054010	7/8/2024	Beryllium-7	1.46E-01	9.82E-03	1.11E-02	pCi/m3	
2224	691730010	8/6/2024	Beryllium-7	9.46E-02	1.28E-02	2.38E-02	pCi/m3	
2224	691734003	8/27/2024	Beryllium-7	1.45E-01	1.09E-02	1.48E-02	pCi/m3	
2224	695577008	10/1/2024	Beryllium-7	1.04E-01	9.96E-03	1.07E-02	pCi/m3	
2224	702719009	10/28/2024	Beryllium-7	9.12E-02	1.78E-02	1.92E-02	pCi/m3	
2224	703169002	11/25/2024	Beryllium-7	6.64E-02	7.56E-03	9.56E-03	pCi/m3	
2224	706986003	12/24/2024	Beryllium-7	5.51E-02	7.63E-03	8.80E-03	pCi/m3	
2224	650210018	1/2/2024	BETA	3.80E-02	1.63E-03	1.31E-03	pCi/m3	
2224	650994021	1/8/2024	BETA	4.88E-02	2.08E-03	1.62E-03	pCi/m3	
2224	651848013	1/18/2024	BETA	3.80E-02	1.38E-03	9.17E-04	pCi/m3	
2224	652268017	1/24/2024	BETA	4.51E-02	1.86E-03	1.40E-03	pCi/m3	
2224	653178007	1/30/2024	BETA	2.08E-02	1.49E-03	1.77E-03	pCi/m3	
2224	654187011	2/6/2024	BETA	4.80E-02	1.86E-03	1.37E-03	pCi/m3	
2224	655008013	2/13/2024	BETA	2.57E-02	1.39E-03	1.37E-03	pCi/m3	
2224	655819011	2/20/2024	BETA	3.36E-02	1.57E-03	1.26E-03	pCi/m3	
2224	656511015	2/27/2024	BETA	3.55E-02	1.65E-03	1.40E-03	pCi/m3	
2224	657416013	3/4/2024	BETA	2.66E-02	1.47E-03	1.44E-03	pCi/m3	
2224	658450013	3/12/2024	BETA	2.44E-02	1.27E-03	1.10E-03	pCi/m3	
2224	659313009	3/19/2024	BETA	2.61E-02	1.37E-03	1.28E-03	pCi/m3	
2224	660083007	3/26/2024	BETA	3.20E-02	1.57E-03	1.39E-03	pCi/m3	
2224	660793005	4/1/2024	BETA	3.37E-02	1.68E-03	1.49E-03	pCi/m3	
2224	662052013	4/9/2024	BETA	2.47E-02	1.29E-03	1.17E-03	pCi/m3	
2224	662074015	4/16/2024	BETA	3.07E-02	1.62E-03	1.45E-03	pCi/m3	
2224	664092007	4/23/2024	BETA	3.09E-02	1.69E-03	1.51E-03	pCi/m3	
2224	665204007	4/30/2024	BETA	3.42E-02	1.75E-03	1.49E-03	pCi/m3	
2224	666121017	5/7/2024	BETA	2.76E-02	1.56E-03	1.49E-03	pCi/m3	
2224	667159001	5/13/2024	BETA	2.36E-02	1.63E-03	1.87E-03	pCi/m3	
2224	668220022	5/20/2024	BETA	2.46E-02	1.49E-03	1.54E-03	pCi/m3	
2224	669062005	5/28/2024	BETA	2.59E-02	1.36E-03	1.28E-03	pCi/m3	
2224	669755003	6/3/2024	BETA	2.71E-02	1.62E-03	1.68E-03	pCi/m3	
2224	670837011	6/11/2024	BETA	2.04E-02	1.07E-03	1.03E-03	pCi/m3	
2224	671897015	6/18/2024	BETA	3.77E-02	1.69E-03	1.41E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	672773017	6/25/2024	BETA	3.41E-02	1.59E-03	1.29E-03	pCi/m3	
2224	673676015	7/2/2024	BETA	2.94E-02	1.51E-03	1.41E-03	pCi/m3	
2224	674336019	7/8/2024	BETA	2.91E-02	1.65E-03	1.54E-03	pCi/m3	
2224	675686019	7/16/2024	BETA	3.32E-02	1.49E-03	1.14E-03	pCi/m3	
2224	676802013	7/23/2024	BETA	2.89E-02	1.53E-03	1.45E-03	pCi/m3	
2224	677970015	7/30/2024	BETA	2.79E-02	1.49E-03	1.73E-03	pCi/m3	
2224	679202019	8/6/2024	BETA	3.75E-02	1.71E-03	1.34E-03	pCi/m3	
2224	680237003	8/13/2024	BETA	4.56E-02	1.81E-03	1.19E-03	pCi/m3	
2224	681488017	8/20/2024	BETA	4.04E-02	1.80E-03	1.46E-03	pCi/m3	
2224	682604005	8/27/2024	BETA	4.40E-02	1.86E-03	1.38E-03	pCi/m3	
2224	683692015	9/4/2024	BETA	3.87E-02	1.58E-03	1.18E-03	pCi/m3	
2224	684664011	9/10/2024	BETA	3.93E-02	1.89E-03	1.57E-03	pCi/m3	
2224	685842017	9/17/2024	BETA	3.86E-02	3.36E-03	1.39E-03	pCi/m3	
2224	686976005	9/23/2024	BETA	3.72E-02	1.86E-03	1.65E-03	pCi/m3	
2224	687851015	10/1/2024	BETA	3.06E-02	1.41E-03	1.16E-03	pCi/m3	
2224	689079009	10/8/2024	BETA	4.91E-02	1.91E-03	1.38E-03	pCi/m3	
2224	690093007	10/15/2024	BETA	5.08E-02	1.90E-03	1.23E-03	pCi/m3	
2224	691165007	10/22/2024	BETA	4.20E-02	1.78E-03	1.29E-03	pCi/m3	
2224	692327027	10/28/2024	BETA	6.49E-02	2.34E-03	1.63E-03	pCi/m3	
2224	693531005	11/4/2024	BETA	4.21E-02	1.79E-03	1.36E-03	pCi/m3	
2224	694911017	11/13/2024	BETA	3.32E-02	1.37E-03	1.07E-03	pCi/m3	
2224	696166007	11/19/2024	BETA	4.67E-02	2.04E-03	1.55E-03	pCi/m3	
2224	697367003	11/25/2024	BETA	3.21E-02	1.68E-03	1.60E-03	pCi/m3	
2224	698165017	12/4/2024	BETA	5.32E-02	1.78E-03	1.15E-03	pCi/m3	
2224	699433015	12/10/2024	BETA	4.80E-02	2.11E-03	1.76E-03	pCi/m3	
2224	700752013	12/17/2024	BETA	3.99E-02	1.76E-03	1.51E-03	pCi/m3	
2224	701911005	12/24/2024	BETA	3.73E-02	2.23E-03	2.29E-03	pCi/m3	
2224	657104007	1/24/2024	Bismuth-214	-1.09E-03	5.57E-04	1.62E-03	pCi/m3	U
2224	659797005	2/20/2024	Bismuth-214	5.33E-05	6.86E-04	2.09E-03	pCi/m3	U
2224	664161005	3/19/2024	Bismuth-214	-6.48E-06	6.12E-04	1.76E-03	pCi/m3	U
2224	669419005	4/16/2024	Bismuth-214	7.51E-04	8.04E-04	2.44E-03	pCi/m3	U
2224	674392001	5/13/2024	Bismuth-214	1.47E-03	1.27E-03	2.62E-03	pCi/m3	U
2224	676203006	6/11/2024	Bismuth-214	3.32E-04	7.60E-04	1.98E-03	pCi/m3	U
2224	682054010	7/8/2024	Bismuth-214	1.09E-03	5.44E-04	2.04E-03	pCi/m3	U
2224	691730010	8/6/2024	Bismuth-214	1.38E-03	1.22E-03	3.00E-03	pCi/m3	U
2224	691734003	8/27/2024	Bismuth-214	1.32E-03	9.26E-04	1.62E-03	pCi/m3	U
2224	695577008	10/1/2024	Bismuth-214	3.07E-04	1.19E-03	2.38E-03	pCi/m3	U
2224	702719009	10/28/2024	Bismuth-214	4.17E-04	7.28E-04	2.41E-03	pCi/m3	U
2224	703169002	11/25/2024	Bismuth-214	7.89E-03	1.38E-03	1.74E-03	pCi/m3	U
2224	706986003	12/24/2024	Bismuth-214	2.15E-04	7.79E-04	2.48E-03	pCi/m3	U
2224	657104007	1/24/2024	Cerium-141	-3.20E-04	5.80E-04	1.66E-03	pCi/m3	U
2224	659797005	2/20/2024	Cerium-141	-1.59E-03	5.17E-04	1.33E-03	pCi/m3	U
2224	664161005	3/19/2024	Cerium-141	3.30E-04	9.81E-04	1.45E-03	pCi/m3	U
2224	669419005	4/16/2024	Cerium-141	0.00E+00	8.01E-04	2.62E-03	pCi/m3	U
2224	674392001	5/13/2024	Cerium-141	-4.57E-04	1.18E-03	3.29E-03	pCi/m3	U
2224	676203006	6/11/2024	Cerium-141	-1.34E-03	5.91E-04	1.60E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	682054010	7/8/2024	Cerium-141	-4.91E-04	8.19E-04	2.57E-03	pCi/m3	U
2224	691730010	8/6/2024	Cerium-141	-3.45E-03	2.09E-03	6.19E-03	pCi/m3	U
2224	691734003	8/27/2024	Cerium-141	-6.54E-04	8.70E-04	2.69E-03	pCi/m3	U
2224	695577008	10/1/2024	Cerium-141	-4.82E-04	8.62E-04	2.65E-03	pCi/m3	U
2224	702719009	10/28/2024	Cerium-141	3.78E-03	1.50E-03	5.46E-03	pCi/m3	U
2224	703169002	11/25/2024	Cerium-141	-1.15E-03	7.05E-04	2.08E-03	pCi/m3	U
2224	706986003	12/24/2024	Cerium-141	-1.07E-03	7.66E-04	2.29E-03	pCi/m3	U
2224	657104007	1/24/2024	Cerium-144	3.02E-04	1.06E-03	3.43E-03	pCi/m3	U
2224	659797005	2/20/2024	Cerium-144	1.25E-03	9.67E-04	3.37E-03	pCi/m3	U
2224	664161005	3/19/2024	Cerium-144	-4.10E-04	1.01E-03	3.17E-03	pCi/m3	U
2224	669419005	4/16/2024	Cerium-144	1.58E-03	1.15E-03	4.03E-03	pCi/m3	U
2224	674392001	5/13/2024	Cerium-144	-3.20E-04	1.53E-03	4.75E-03	pCi/m3	U
2224	676203006	6/11/2024	Cerium-144	-1.14E-03	1.06E-03	3.31E-03	pCi/m3	U
2224	682054010	7/8/2024	Cerium-144	1.87E-04	1.24E-03	4.07E-03	pCi/m3	U
2224	691730010	8/6/2024	Cerium-144	-1.95E-03	1.66E-03	5.07E-03	pCi/m3	U
2224	691734003	8/27/2024	Cerium-144	2.30E-04	1.08E-03	3.56E-03	pCi/m3	U
2224	695577008	10/1/2024	Cerium-144	3.05E-03	1.19E-03	4.41E-03	pCi/m3	U
2224	702719009	10/28/2024	Cerium-144	-3.12E-04	1.64E-03	5.37E-03	pCi/m3	U
2224	703169002	11/25/2024	Cerium-144	1.08E-03	1.08E-03	3.63E-03	pCi/m3	U
2224	706986003	12/24/2024	Cerium-144	1.38E-04	1.20E-03	3.93E-03	pCi/m3	U
2224	657104007	1/24/2024	Cesium-134	2.41E-04	2.28E-04	8.15E-04	pCi/m3	U
2224	659797005	2/20/2024	Cesium-134	-1.99E-04	3.50E-04	1.06E-03	pCi/m3	U
2224	664161005	3/19/2024	Cesium-134	5.80E-04	2.50E-04	1.06E-03	pCi/m3	U
2224	669419005	4/16/2024	Cesium-134	5.44E-05	3.66E-04	1.03E-03	pCi/m3	U
2224	674392001	5/13/2024	Cesium-134	1.62E-04	4.09E-04	1.21E-03	pCi/m3	U
2224	676203006	6/11/2024	Cesium-134	7.23E-04	3.51E-04	1.14E-03	pCi/m3	U
2224	682054010	7/8/2024	Cesium-134	1.05E-03	5.12E-04	1.28E-03	pCi/m3	U
2224	691730010	8/6/2024	Cesium-134	-4.69E-04	4.41E-04	1.08E-03	pCi/m3	U
2224	691734003	8/27/2024	Cesium-134	-6.00E-06	3.07E-04	9.91E-04	pCi/m3	U
2224	695577008	10/1/2024	Cesium-134	-2.61E-04	3.23E-04	1.01E-03	pCi/m3	U
2224	702719009	10/28/2024	Cesium-134	1.83E-04	3.80E-04	1.32E-03	pCi/m3	U
2224	703169002	11/25/2024	Cesium-134	-4.62E-04	2.73E-04	7.90E-04	pCi/m3	U
2224	706986003	12/24/2024	Cesium-134	-2.36E-04	4.28E-04	1.29E-03	pCi/m3	U
2224	657104007	1/24/2024	Cesium-137	-1.32E-04	2.79E-04	8.63E-04	pCi/m3	U
2224	659797005	2/20/2024	Cesium-137	-1.63E-04	3.24E-04	9.46E-04	pCi/m3	U
2224	664161005	3/19/2024	Cesium-137	-3.16E-04	2.28E-04	6.41E-04	pCi/m3	U
2224	669419005	4/16/2024	Cesium-137	-8.95E-05	3.05E-04	9.52E-04	pCi/m3	U
2224	674392001	5/13/2024	Cesium-137	-1.24E-04	2.67E-04	8.34E-04	pCi/m3	U
2224	676203006	6/11/2024	Cesium-137	1.13E-04	2.15E-04	7.30E-04	pCi/m3	U
2224	682054010	7/8/2024	Cesium-137	-4.37E-04	3.10E-04	8.14E-04	pCi/m3	U
2224	691730010	8/6/2024	Cesium-137	1.33E-04	3.84E-04	1.29E-03	pCi/m3	U
2224	691734003	8/27/2024	Cesium-137	-1.84E-04	2.55E-04	7.82E-04	pCi/m3	U
2224	695577008	10/1/2024	Cesium-137	9.77E-05	2.62E-04	7.89E-04	pCi/m3	U
2224	702719009	10/28/2024	Cesium-137	-2.44E-04	2.58E-04	7.88E-04	pCi/m3	U
2224	703169002	11/25/2024	Cesium-137	-3.55E-04	2.36E-04	6.39E-04	pCi/m3	U
2224	706986003	12/24/2024	Cesium-137	2.22E-04	3.22E-04	1.10E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	657104007	1/24/2024	Chromium-51	-8.52E-04	3.26E-03	1.09E-02	pCi/m3	U
2224	659797005	2/20/2024	Chromium-51	-6.05E-03	3.80E-03	1.02E-02	pCi/m3	U
2224	664161005	3/19/2024	Chromium-51	9.63E-04	3.65E-03	1.26E-02	pCi/m3	U
2224	669419005	4/16/2024	Chromium-51	7.23E-03	6.51E-03	2.32E-02	pCi/m3	U
2224	674392001	5/13/2024	Chromium-51	-1.48E-02	9.03E-03	2.66E-02	pCi/m3	U
2224	676203006	6/11/2024	Chromium-51	1.39E-03	5.09E-03	1.76E-02	pCi/m3	U
2224	682054010	7/8/2024	Chromium-51	-2.68E-03	6.87E-03	2.31E-02	pCi/m3	U
2224	691730010	8/6/2024	Chromium-51	1.55E-02	2.00E-02	7.11E-02	pCi/m3	U
2224	691734003	8/27/2024	Chromium-51	-1.55E-02	9.45E-03	2.58E-02	pCi/m3	U
2224	695577008	10/1/2024	Chromium-51	-1.57E-03	5.57E-03	1.85E-02	pCi/m3	U
2224	702719009	10/28/2024	Chromium-51	1.02E-02	1.26E-02	4.27E-02	pCi/m3	U
2224	703169002	11/25/2024	Chromium-51	3.96E-03	4.75E-03	1.67E-02	pCi/m3	U
2224	706986003	12/24/2024	Chromium-51	-3.97E-03	5.18E-03	1.66E-02	pCi/m3	U
2224	657104007	1/24/2024	Cobalt-57	-4.06E-05	1.45E-04	4.57E-04	pCi/m3	U
2224	659797005	2/20/2024	Cobalt-57	2.10E-04	1.40E-04	4.93E-04	pCi/m3	U
2224	664161005	3/19/2024	Cobalt-57	5.63E-05	1.19E-04	3.94E-04	pCi/m3	U
2224	669419005	4/16/2024	Cobalt-57	5.09E-05	1.61E-04	5.39E-04	pCi/m3	U
2224	674392001	5/13/2024	Cobalt-57	5.76E-05	2.03E-04	6.50E-04	pCi/m3	U
2224	676203006	6/11/2024	Cobalt-57	-1.38E-05	1.05E-04	3.50E-04	pCi/m3	U
2224	682054010	7/8/2024	Cobalt-57	-1.83E-05	1.54E-04	5.00E-04	pCi/m3	U
2224	691730010	8/6/2024	Cobalt-57	3.71E-04	1.90E-04	6.85E-04	pCi/m3	U
2224	691734003	8/27/2024	Cobalt-57	6.24E-05	1.38E-04	4.61E-04	pCi/m3	U
2224	695577008	10/1/2024	Cobalt-57	5.27E-05	1.32E-04	4.46E-04	pCi/m3	U
2224	702719009	10/28/2024	Cobalt-57	2.42E-04	2.04E-04	7.07E-04	pCi/m3	U
2224	703169002	11/25/2024	Cobalt-57	-9.10E-05	1.31E-04	4.09E-04	pCi/m3	U
2224	706986003	12/24/2024	Cobalt-57	-8.50E-05	1.42E-04	4.50E-04	pCi/m3	U
2224	657104007	1/24/2024	Cobalt-58	-3.03E-04	3.22E-04	9.32E-04	pCi/m3	U
2224	659797005	2/20/2024	Cobalt-58	-2.58E-04	3.25E-04	1.01E-03	pCi/m3	U
2224	664161005	3/19/2024	Cobalt-58	2.80E-04	3.04E-04	1.07E-03	pCi/m3	U
2224	669419005	4/16/2024	Cobalt-58	9.39E-05	3.95E-04	1.36E-03	pCi/m3	U
2224	674392001	5/13/2024	Cobalt-58	-2.35E-04	6.46E-04	1.71E-03	pCi/m3	U
2224	676203006	6/11/2024	Cobalt-58	-3.25E-04	4.22E-04	1.31E-03	pCi/m3	U
2224	682054010	7/8/2024	Cobalt-58	-4.41E-05	4.38E-04	1.40E-03	pCi/m3	U
2224	691730010	8/6/2024	Cobalt-58	1.18E-04	6.06E-04	2.01E-03	pCi/m3	U
2224	691734003	8/27/2024	Cobalt-58	8.64E-04	5.17E-04	1.80E-03	pCi/m3	U
2224	695577008	10/1/2024	Cobalt-58	2.05E-04	4.89E-04	1.70E-03	pCi/m3	U
2224	702719009	10/28/2024	Cobalt-58	-3.59E-04	5.62E-04	1.76E-03	pCi/m3	U
2224	703169002	11/25/2024	Cobalt-58	-2.70E-05	3.68E-04	1.24E-03	pCi/m3	U
2224	706986003	12/24/2024	Cobalt-58	-1.49E-04	4.35E-04	1.41E-03	pCi/m3	U
2224	657104007	1/24/2024	Cobalt-60	2.28E-04	2.72E-04	9.91E-04	pCi/m3	U
2224	659797005	2/20/2024	Cobalt-60	3.03E-04	2.34E-04	9.48E-04	pCi/m3	U
2224	664161005	3/19/2024	Cobalt-60	-2.68E-04	2.18E-04	5.65E-04	pCi/m3	U
2224	669419005	4/16/2024	Cobalt-60	1.53E-04	2.80E-04	9.70E-04	pCi/m3	U
2224	674392001	5/13/2024	Cobalt-60	-1.33E-04	3.59E-04	1.16E-03	pCi/m3	U
2224	676203006	6/11/2024	Cobalt-60	-2.46E-04	3.46E-04	1.05E-03	pCi/m3	U
2224	682054010	7/8/2024	Cobalt-60	-2.01E-04	2.39E-04	6.83E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	691730010	8/6/2024	Cobalt-60	2.06E-04	4.19E-04	1.48E-03	pCi/m3	U
2224	691734003	8/27/2024	Cobalt-60	-3.53E-06	2.34E-04	7.80E-04	pCi/m3	U
2224	695577008	10/1/2024	Cobalt-60	5.05E-04	4.18E-04	1.32E-03	pCi/m3	U
2224	702719009	10/28/2024	Cobalt-60	-1.27E-04	3.47E-04	1.08E-03	pCi/m3	U
2224	703169002	11/25/2024	Cobalt-60	-1.24E-04	2.75E-04	8.35E-04	pCi/m3	U
2224	706986003	12/24/2024	Cobalt-60	8.22E-05	3.22E-04	1.08E-03	pCi/m3	U
2224	657104007	1/24/2024	Iron-59	2.84E-04	6.32E-04	2.25E-03	pCi/m3	U
2224	659797005	2/20/2024	Iron-59	9.19E-04	7.43E-04	2.83E-03	pCi/m3	U
2224	664161005	3/19/2024	Iron-59	2.44E-04	7.07E-04	2.47E-03	pCi/m3	U
2224	669419005	4/16/2024	Iron-59	9.47E-04	1.15E-03	4.08E-03	pCi/m3	U
2224	674392001	5/13/2024	Iron-59	1.01E-05	1.62E-03	5.27E-03	pCi/m3	U
2224	676203006	6/11/2024	Iron-59	9.53E-04	1.22E-03	4.31E-03	pCi/m3	U
2224	682054010	7/8/2024	Iron-59	-3.55E-04	8.80E-04	2.82E-03	pCi/m3	U
2224	691730010	8/6/2024	Iron-59	-3.69E-04	2.37E-03	7.91E-03	pCi/m3	U
2224	691734003	8/27/2024	Iron-59	-2.30E-03	1.37E-03	3.77E-03	pCi/m3	U
2224	695577008	10/1/2024	Iron-59	-3.34E-03	1.04E-03	6.44E-04	pCi/m3	U
2224	702719009	10/28/2024	Iron-59	3.01E-03	2.14E-03	7.91E-03	pCi/m3	U
2224	703169002	11/25/2024	Iron-59	4.35E-05	9.84E-04	3.19E-03	pCi/m3	U
2224	706986003	12/24/2024	Iron-59	-8.04E-05	1.38E-03	4.50E-03	pCi/m3	U
2224	657104007	1/24/2024	Lanthanum-140	-6.35E-04	2.13E-03	6.71E-03	pCi/m3	U
2224	659797005	2/20/2024	Lanthanum-140	-4.87E-03	2.47E-03	5.77E-03	pCi/m3	U
2224	664161005	3/19/2024	Lanthanum-140	-7.50E-04	1.68E-03	4.99E-03	pCi/m3	U
2224	669419005	4/16/2024	Lanthanum-140	-6.73E-03	5.61E-03	1.56E-02	pCi/m3	U
2224	674392001	5/13/2024	Lanthanum-140	-1.27E-03	1.03E-02	3.32E-02	pCi/m3	U
2224	676203006	6/11/2024	Lanthanum-140	5.14E-03	3.02E-03	1.29E-02	pCi/m3	U
2224	682054010	7/8/2024	Lanthanum-140	-1.82E-03	6.14E-03	1.93E-02	pCi/m3	U
2224	691730010	8/6/2024	Lanthanum-140	2.55E-02	3.80E-02	1.40E-01	pCi/m3	U
2224	691734003	8/27/2024	Lanthanum-140	1.62E-02	1.01E-02	4.12E-02	pCi/m3	U
2224	695577008	10/1/2024	Lanthanum-140	5.87E-03	6.02E-03	2.28E-02	pCi/m3	U
2224	702719009	10/28/2024	Lanthanum-140	-1.47E-03	1.82E-02	5.83E-02	pCi/m3	U
2224	703169002	11/25/2024	Lanthanum-140	-2.63E-03	3.62E-03	1.09E-02	pCi/m3	U
2224	706986003	12/24/2024	Lanthanum-140	-5.09E-03	5.68E-03	1.64E-02	pCi/m3	U
2224	657104007	1/24/2024	Lead-210	8.91E-02	5.37E-02	6.50E-02	pCi/m3	UI
2224	659797005	2/20/2024	Lead-210	-4.35E-02	6.95E-02	1.97E-01	pCi/m3	U
2224	664161005	3/19/2024	Lead-210	1.69E-02	3.95E-02	5.79E-02	pCi/m3	U
2224	669419005	4/16/2024	Lead-210	7.64E-02	4.09E-02	7.63E-02	pCi/m3	UI
2224	674392001	5/13/2024	Lead-210	-1.25E-02	6.35E-02	2.14E-01	pCi/m3	U
2224	676203006	6/11/2024	Lead-210	-3.01E-03	4.24E-02	1.25E-01	pCi/m3	U
2224	682054010	7/8/2024	Lead-210	-1.15E-02	2.68E-02	8.38E-02	pCi/m3	U
2224	691730010	8/6/2024	Lead-210	7.18E-02	5.92E-02	8.58E-02	pCi/m3	U
2224	691734003	8/27/2024	Lead-210	4.18E-02	3.26E-02	6.52E-02	pCi/m3	U
2224	695577008	10/1/2024	Lead-210	5.85E-02	2.76E-02	1.06E-01	pCi/m3	U
2224	702719009	10/28/2024	Lead-210	1.20E-01	8.95E-02	2.82E-01	pCi/m3	U
2224	703169002	11/25/2024	Lead-210	4.28E-02	1.43E-02	2.46E-02	pCi/m3	U
2224	706986003	12/24/2024	Lead-210	3.80E-02	3.13E-02	1.05E-01	pCi/m3	U
2224	657104007	1/24/2024	Lead-212	1.05E-03	6.10E-04	9.65E-04	pCi/m3	UI

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	659797005	2/20/2024	Lead-212	1.21E-03	4.96E-04	1.48E-03	pCi/m3	U
2224	664161005	3/19/2024	Lead-212	7.43E-04	5.14E-04	8.07E-04	pCi/m3	U
2224	669419005	4/16/2024	Lead-212	7.91E-04	6.92E-04	1.63E-03	pCi/m3	U
2224	674392001	5/13/2024	Lead-212	1.55E-03	7.46E-04	2.02E-03	pCi/m3	U
2224	676203006	6/11/2024	Lead-212	7.55E-04	5.22E-04	1.45E-03	pCi/m3	U
2224	682054010	7/8/2024	Lead-212	1.06E-03	8.36E-04	1.71E-03	pCi/m3	U
2224	691730010	8/6/2024	Lead-212	4.70E-04	5.67E-04	1.86E-03	pCi/m3	U
2224	691734003	8/27/2024	Lead-212	7.68E-04	7.15E-04	1.63E-03	pCi/m3	U
2224	695577008	10/1/2024	Lead-212	4.03E-04	7.59E-04	1.71E-03	pCi/m3	U
2224	702719009	10/28/2024	Lead-212	1.16E-03	9.07E-04	1.92E-03	pCi/m3	U
2224	703169002	11/25/2024	Lead-212	1.50E-03	5.53E-04	1.59E-03	pCi/m3	U
2224	706986003	12/24/2024	Lead-212	1.40E-03	6.32E-04	1.10E-03	pCi/m3	UI
2224	657104007	1/24/2024	Lead-214	6.25E-05	5.32E-04	1.77E-03	pCi/m3	U
2224	659797005	2/20/2024	Lead-214	9.83E-04	7.37E-04	2.02E-03	pCi/m3	U
2224	664161005	3/19/2024	Lead-214	-4.78E-06	5.67E-04	1.80E-03	pCi/m3	U
2224	669419005	4/16/2024	Lead-214	1.11E-03	8.93E-04	2.17E-03	pCi/m3	U
2224	674392001	5/13/2024	Lead-214	6.54E-04	6.90E-04	2.18E-03	pCi/m3	U
2224	676203006	6/11/2024	Lead-214	2.01E-03	1.07E-03	2.21E-03	pCi/m3	U
2224	682054010	7/8/2024	Lead-214	1.29E-04	9.12E-04	2.14E-03	pCi/m3	U
2224	691730010	8/6/2024	Lead-214	1.89E-03	1.21E-03	2.13E-03	pCi/m3	U
2224	691734003	8/27/2024	Lead-214	2.18E-03	8.13E-04	1.98E-03	pCi/m3	UI
2224	695577008	10/1/2024	Lead-214	1.68E-03	9.18E-04	2.57E-03	pCi/m3	U
2224	702719009	10/28/2024	Lead-214	-3.46E-04	7.04E-04	2.15E-03	pCi/m3	U
2224	703169002	11/25/2024	Lead-214	4.73E-03	8.90E-04	1.40E-03	pCi/m3	
2224	706986003	12/24/2024	Lead-214	6.15E-04	6.29E-04	2.12E-03	pCi/m3	U
2224	657104007	1/24/2024	Manganese-54	4.23E-05	1.85E-04	6.10E-04	pCi/m3	U
2224	659797005	2/20/2024	Manganese-54	1.78E-04	3.25E-04	1.07E-03	pCi/m3	U
2224	664161005	3/19/2024	Manganese-54	1.77E-04	2.44E-04	8.38E-04	pCi/m3	U
2224	669419005	4/16/2024	Manganese-54	-7.03E-06	2.86E-04	9.61E-04	pCi/m3	U
2224	674392001	5/13/2024	Manganese-54	3.73E-04	3.20E-04	1.05E-03	pCi/m3	U
2224	676203006	6/11/2024	Manganese-54	1.70E-04	2.46E-04	8.87E-04	pCi/m3	U
2224	682054010	7/8/2024	Manganese-54	-1.82E-04	4.09E-04	1.27E-03	pCi/m3	U
2224	691730010	8/6/2024	Manganese-54	-4.44E-04	4.67E-04	1.38E-03	pCi/m3	U
2224	691734003	8/27/2024	Manganese-54	-2.09E-05	3.13E-04	1.01E-03	pCi/m3	U
2224	695577008	10/1/2024	Manganese-54	-4.94E-05	3.66E-04	1.22E-03	pCi/m3	U
2224	702719009	10/28/2024	Manganese-54	8.55E-05	3.39E-04	1.15E-03	pCi/m3	U
2224	703169002	11/25/2024	Manganese-54	-6.39E-05	2.90E-04	9.61E-04	pCi/m3	U
2224	706986003	12/24/2024	Manganese-54	-1.72E-04	2.78E-04	8.67E-04	pCi/m3	U
2224	657104007	1/24/2024	Molybdenum-99	-7.46E-01	1.77E+01	0.00E+00	pCi/m3	U
2224	659797005	2/20/2024	Molybdenum-99	-5.06E+00	7.39E+00	0.00E+00	pCi/m3	U
2224	664161005	3/19/2024	Molybdenum-99	8.41E+00	1.76E+01	0.00E+00	pCi/m3	UI
2224	669419005	4/16/2024	Molybdenum-99	7.13E+01	8.58E+02	0.00E+00	pCi/m3	UI
2224	674392001	5/13/2024	Molybdenum-99	-2.04E+03	1.35E+04	0.00E+00	pCi/m3	U
2224	676203006	6/11/2024	Molybdenum-99	2.81E+01	1.14E+02	0.00E+00	pCi/m3	UI
2224	682054010	7/8/2024	Molybdenum-99	4.38E+02	1.71E+03	0.00E+00	pCi/m3	UI
2224	691730010	8/6/2024	Molybdenum-99	1.40E+07	7.73E+06	0.00E+00	pCi/m3	UI

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	691734003	8/27/2024	Molybdenum-99	1.60E+04	3.76E+04	0.00E+00	pCi/m3	UI
2224	695577008	10/1/2024	Molybdenum-99	7.50E+01	8.65E+02	0.00E+00	pCi/m3	UI
2224	702719009	10/28/2024	Molybdenum-99	1.53E+05	2.33E+05	0.00E+00	pCi/m3	UI
2224	703169002	11/25/2024	Molybdenum-99	1.45E+02	3.10E+02	0.00E+00	pCi/m3	UI
2224	706986003	12/24/2024	Molybdenum-99	4.52E+02	2.47E+02	0.00E+00	pCi/m3	UI
2224	657104007	1/24/2024	Niobium-95	-1.47E-04	2.88E-04	8.77E-04	pCi/m3	U
2224	659797005	2/20/2024	Niobium-95	-1.28E-05	3.52E-04	1.13E-03	pCi/m3	U
2224	664161005	3/19/2024	Niobium-95	-2.59E-04	3.26E-04	9.48E-04	pCi/m3	U
2224	669419005	4/16/2024	Niobium-95	-5.90E-04	4.33E-04	1.31E-03	pCi/m3	U
2224	674392001	5/13/2024	Niobium-95	6.95E-04	5.63E-04	2.03E-03	pCi/m3	U
2224	676203006	6/11/2024	Niobium-95	-2.04E-05	4.86E-04	1.65E-03	pCi/m3	U
2224	682054010	7/8/2024	Niobium-95	-3.46E-04	5.25E-04	1.61E-03	pCi/m3	U
2224	691730010	8/6/2024	Niobium-95	-4.75E-04	1.04E-03	2.87E-03	pCi/m3	U
2224	691734003	8/27/2024	Niobium-95	-6.07E-04	6.25E-04	1.62E-03	pCi/m3	U
2224	695577008	10/1/2024	Niobium-95	-2.95E-05	4.98E-04	1.68E-03	pCi/m3	U
2224	702719009	10/28/2024	Niobium-95	5.46E-04	5.95E-04	2.14E-03	pCi/m3	U
2224	703169002	11/25/2024	Niobium-95	3.74E-04	4.01E-04	1.45E-03	pCi/m3	U
2224	706986003	12/24/2024	Niobium-95	1.59E-04	5.01E-04	1.74E-03	pCi/m3	U
2224	657104007	1/24/2024	Potassium-40	-3.78E-03	4.23E-03	1.50E-02	pCi/m3	U
2224	659797005	2/20/2024	Potassium-40	1.55E-02	6.36E-03	1.23E-02	pCi/m3	UI
2224	664161005	3/19/2024	Potassium-40	1.40E-02	4.58E-03	5.86E-03	pCi/m3	UI
2224	669419005	4/16/2024	Potassium-40	1.17E-02	6.99E-03	1.07E-02	pCi/m3	UI
2224	674392001	5/13/2024	Potassium-40	2.69E-02	9.72E-03	1.09E-02	pCi/m3	UI
2224	676203006	6/11/2024	Potassium-40	4.22E-03	5.42E-03	1.92E-02	pCi/m3	U
2224	682054010	7/8/2024	Potassium-40	6.41E-03	4.09E-03	9.93E-03	pCi/m3	U
2224	691730010	8/6/2024	Potassium-40	8.04E-03	6.39E-03	6.58E-03	pCi/m3	UI
2224	691734003	8/27/2024	Potassium-40	5.84E-03	4.15E-03	8.65E-03	pCi/m3	U
2224	695577008	10/1/2024	Potassium-40	9.11E-04	4.85E-03	1.62E-02	pCi/m3	U
2224	702719009	10/28/2024	Potassium-40	2.57E-03	3.89E-03	7.66E-03	pCi/m3	U
2224	703169002	11/25/2024	Potassium-40	1.09E-02	4.41E-03	6.04E-03	pCi/m3	UI
2224	706986003	12/24/2024	Potassium-40	1.52E-02	4.83E-03	5.84E-03	pCi/m3	UI
2224	657104007	1/24/2024	Radium-226	6.25E-05	5.32E-04	1.77E-03	pCi/m3	U
2224	659797005	2/20/2024	Radium-226	9.83E-04	7.37E-04	2.02E-03	pCi/m3	U
2224	664161005	3/19/2024	Radium-226	-4.78E-06	5.67E-04	1.80E-03	pCi/m3	U
2224	669419005	4/16/2024	Radium-226	1.11E-03	8.93E-04	2.17E-03	pCi/m3	U
2224	674392001	5/13/2024	Radium-226	6.54E-04	6.90E-04	2.18E-03	pCi/m3	U
2224	676203006	6/11/2024	Radium-226	2.01E-03	1.07E-03	2.21E-03	pCi/m3	U
2224	682054010	7/8/2024	Radium-226	1.29E-04	9.12E-04	2.14E-03	pCi/m3	U
2224	691730010	8/6/2024	Radium-226	1.89E-03	1.21E-03	2.13E-03	pCi/m3	U
2224	691734003	8/27/2024	Radium-226	2.18E-03	8.13E-04	1.98E-03	pCi/m3	UI
2224	695577008	10/1/2024	Radium-226	1.68E-03	9.18E-04	2.57E-03	pCi/m3	U
2224	702719009	10/28/2024	Radium-226	-3.46E-04	7.04E-04	2.15E-03	pCi/m3	U
2224	703169002	11/25/2024	Radium-226	4.73E-03	8.90E-04	1.40E-03	pCi/m3	
2224	706986003	12/24/2024	Radium-226	6.15E-04	6.29E-04	2.12E-03	pCi/m3	U
2224	657104007	1/24/2024	Radium-228	-4.56E-04	1.17E-03	3.74E-03	pCi/m3	U
2224	659797005	2/20/2024	Radium-228	2.15E-03	2.11E-03	4.35E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	664161005	3/19/2024	Radium-228	3.66E-03	1.29E-03	3.95E-03	pCi/m3	U
2224	669419005	4/16/2024	Radium-228	3.51E-03	1.48E-03	4.74E-03	pCi/m3	U
2224	674392001	5/13/2024	Radium-228	7.08E-04	1.84E-03	5.17E-03	pCi/m3	U
2224	676203006	6/11/2024	Radium-228	-1.12E-03	1.43E-03	4.44E-03	pCi/m3	U
2224	682054010	7/8/2024	Radium-228	1.83E-03	1.42E-03	5.10E-03	pCi/m3	U
2224	691730010	8/6/2024	Radium-228	-2.96E-03	1.99E-03	5.50E-03	pCi/m3	U
2224	691734003	8/27/2024	Radium-228	4.69E-04	1.34E-03	4.32E-03	pCi/m3	U
2224	695577008	10/1/2024	Radium-228	-3.17E-04	1.38E-03	4.66E-03	pCi/m3	U
2224	702719009	10/28/2024	Radium-228	2.73E-03	1.89E-03	5.70E-03	pCi/m3	U
2224	703169002	11/25/2024	Radium-228	3.64E-03	1.56E-03	4.68E-03	pCi/m3	U
2224	706986003	12/24/2024	Radium-228	3.25E-03	1.72E-03	6.46E-03	pCi/m3	U
2224	657104007	1/24/2024	Ruthenium-103	1.53E-04	3.47E-04	1.19E-03	pCi/m3	U
2224	659797005	2/20/2024	Ruthenium-103	-1.49E-04	3.16E-04	1.02E-03	pCi/m3	U
2224	664161005	3/19/2024	Ruthenium-103	-3.43E-04	3.69E-04	1.14E-03	pCi/m3	U
2224	669419005	4/16/2024	Ruthenium-103	2.97E-04	5.88E-04	1.99E-03	pCi/m3	U
2224	674392001	5/13/2024	Ruthenium-103	-9.03E-04	6.64E-04	2.03E-03	pCi/m3	U
2224	676203006	6/11/2024	Ruthenium-103	-3.33E-04	3.94E-04	1.17E-03	pCi/m3	U
2224	682054010	7/8/2024	Ruthenium-103	2.64E-05	5.95E-04	2.00E-03	pCi/m3	U
2224	691730010	8/6/2024	Ruthenium-103	1.11E-03	1.08E-03	3.89E-03	pCi/m3	U
2224	691734003	8/27/2024	Ruthenium-103	2.25E-04	7.21E-04	2.23E-03	pCi/m3	U
2224	695577008	10/1/2024	Ruthenium-103	-3.78E-04	5.16E-04	1.57E-03	pCi/m3	U
2224	702719009	10/28/2024	Ruthenium-103	-7.36E-04	9.34E-04	2.80E-03	pCi/m3	U
2224	703169002	11/25/2024	Ruthenium-103	2.52E-05	4.94E-04	1.45E-03	pCi/m3	U
2224	706986003	12/24/2024	Ruthenium-103	-7.50E-04	6.90E-04	1.76E-03	pCi/m3	U
2224	657104007	1/24/2024	Ruthenium-106	-1.84E-03	1.91E-03	5.67E-03	pCi/m3	U
2224	659797005	2/20/2024	Ruthenium-106	-2.13E-03	2.46E-03	7.50E-03	pCi/m3	U
2224	664161005	3/19/2024	Ruthenium-106	-2.81E-04	2.09E-03	6.72E-03	pCi/m3	U
2224	669419005	4/16/2024	Ruthenium-106	9.40E-05	2.58E-03	7.41E-03	pCi/m3	U
2224	674392001	5/13/2024	Ruthenium-106	4.73E-03	3.14E-03	1.11E-02	pCi/m3	U
2224	676203006	6/11/2024	Ruthenium-106	1.90E-03	2.86E-03	9.67E-03	pCi/m3	U
2224	682054010	7/8/2024	Ruthenium-106	-1.77E-03	2.23E-03	6.38E-03	pCi/m3	U
2224	691730010	8/6/2024	Ruthenium-106	-5.09E-03	3.66E-03	1.08E-02	pCi/m3	U
2224	691734003	8/27/2024	Ruthenium-106	1.68E-03	2.55E-03	8.82E-03	pCi/m3	U
2224	695577008	10/1/2024	Ruthenium-106	1.86E-03	2.63E-03	9.02E-03	pCi/m3	U
2224	702719009	10/28/2024	Ruthenium-106	3.99E-03	3.31E-03	1.19E-02	pCi/m3	U
2224	703169002	11/25/2024	Ruthenium-106	-3.08E-03	2.46E-03	7.11E-03	pCi/m3	U
2224	706986003	12/24/2024	Ruthenium-106	2.03E-03	2.69E-03	9.27E-03	pCi/m3	U
2224	657104007	1/24/2024	Selenium-75	-1.26E-04	2.33E-04	7.73E-04	pCi/m3	U
2224	659797005	2/20/2024	Selenium-75	-2.23E-04	2.59E-04	8.16E-04	pCi/m3	U
2224	664161005	3/19/2024	Selenium-75	-2.03E-04	2.84E-04	9.38E-04	pCi/m3	U
2224	669419005	4/16/2024	Selenium-75	-2.96E-04	4.09E-04	1.22E-03	pCi/m3	U
2224	674392001	5/13/2024	Selenium-75	7.79E-05	4.05E-04	1.34E-03	pCi/m3	U
2224	676203006	6/11/2024	Selenium-75	-1.84E-04	3.72E-04	1.12E-03	pCi/m3	U
2224	682054010	7/8/2024	Selenium-75	-1.56E-04	3.58E-04	1.09E-03	pCi/m3	U
2224	691730010	8/6/2024	Selenium-75	-2.05E-04	5.72E-04	1.75E-03	pCi/m3	U
2224	691734003	8/27/2024	Selenium-75	-9.88E-05	3.99E-04	1.23E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	695577008	10/1/2024	Selenium-75	-6.08E-06	3.33E-04	1.14E-03	pCi/m3	U
2224	702719009	10/28/2024	Selenium-75	-6.45E-05	5.31E-04	1.72E-03	pCi/m3	U
2224	703169002	11/25/2024	Selenium-75	2.37E-04	3.09E-04	1.09E-03	pCi/m3	U
2224	706986003	12/24/2024	Selenium-75	1.34E-04	3.38E-04	1.19E-03	pCi/m3	U
2224	657104007	1/24/2024	Silver-108m	-5.95E-05	1.65E-04	5.38E-04	pCi/m3	U
2224	659797005	2/20/2024	Silver-108m	1.71E-04	1.88E-04	6.44E-04	pCi/m3	U
2224	664161005	3/19/2024	Silver-108m	4.30E-04	2.36E-04	6.20E-04	pCi/m3	U
2224	669419005	4/16/2024	Silver-108m	-2.76E-04	2.05E-04	6.22E-04	pCi/m3	U
2224	674392001	5/13/2024	Silver-108m	1.83E-04	2.16E-04	7.60E-04	pCi/m3	U
2224	676203006	6/11/2024	Silver-108m	-2.02E-04	2.01E-04	6.10E-04	pCi/m3	U
2224	682054010	7/8/2024	Silver-108m	3.10E-04	2.38E-04	8.30E-04	pCi/m3	U
2224	691730010	8/6/2024	Silver-108m	-9.37E-05	3.19E-04	9.59E-04	pCi/m3	U
2224	691734003	8/27/2024	Silver-108m	-4.04E-04	2.55E-04	7.13E-04	pCi/m3	U
2224	695577008	10/1/2024	Silver-108m	-3.35E-04	2.11E-04	6.09E-04	pCi/m3	U
2224	702719009	10/28/2024	Silver-108m	-2.07E-04	2.58E-04	7.84E-04	pCi/m3	U
2224	703169002	11/25/2024	Silver-108m	2.11E-05	1.80E-04	5.99E-04	pCi/m3	U
2224	706986003	12/24/2024	Silver-108m	1.36E-04	1.91E-04	6.73E-04	pCi/m3	U
2224	657104007	1/24/2024	Silver-110m	-4.10E-04	3.62E-04	1.01E-03	pCi/m3	U
2224	659797005	2/20/2024	Silver-110m	5.52E-05	3.63E-04	1.24E-03	pCi/m3	U
2224	664161005	3/19/2024	Silver-110m	-1.87E-04	3.74E-04	1.13E-03	pCi/m3	U
2224	669419005	4/16/2024	Silver-110m	5.28E-05	3.17E-04	1.08E-03	pCi/m3	U
2224	674392001	5/13/2024	Silver-110m	1.36E-03	7.96E-04	1.75E-03	pCi/m3	U
2224	676203006	6/11/2024	Silver-110m	-2.28E-04	5.12E-04	1.63E-03	pCi/m3	U
2224	682054010	7/8/2024	Silver-110m	-4.53E-04	4.25E-04	9.79E-04	pCi/m3	U
2224	691730010	8/6/2024	Silver-110m	5.03E-04	6.01E-04	2.09E-03	pCi/m3	U
2224	691734003	8/27/2024	Silver-110m	-1.07E-03	5.97E-04	1.31E-03	pCi/m3	U
2224	695577008	10/1/2024	Silver-110m	7.70E-04	5.85E-04	1.69E-03	pCi/m3	U
2224	702719009	10/28/2024	Silver-110m	1.25E-04	4.08E-04	1.40E-03	pCi/m3	U
2224	703169002	11/25/2024	Silver-110m	-3.53E-04	3.88E-04	1.20E-03	pCi/m3	U
2224	706986003	12/24/2024	Silver-110m	-4.14E-04	5.10E-04	1.57E-03	pCi/m3	U
2224	657104007	1/24/2024	Tellurium-132	1.17E-01	4.36E-01	0.00E+00	pCi/m3	UI
2224	659797005	2/20/2024	Tellurium-132	-1.56E-01	1.57E-01	0.00E+00	pCi/m3	U
2224	664161005	3/19/2024	Tellurium-132	2.03E-01	4.89E-01	0.00E+00	pCi/m3	UI
2224	669419005	4/16/2024	Tellurium-132	-7.90E+00	1.27E+01	0.00E+00	pCi/m3	U
2224	674392001	5/13/2024	Tellurium-132	6.43E+01	1.07E+02	0.00E+00	pCi/m3	UI
2224	676203006	6/11/2024	Tellurium-132	-7.52E-01	1.85E+00	0.00E+00	pCi/m3	U
2224	682054010	7/8/2024	Tellurium-132	1.61E+01	2.15E+01	0.00E+00	pCi/m3	UI
2224	691730010	8/6/2024	Tellurium-132	5.10E+04	3.33E+04	0.00E+00	pCi/m3	UI
2224	691734003	8/27/2024	Tellurium-132	-3.57E+02	3.09E+02	0.00E+00	pCi/m3	U
2224	695577008	10/1/2024	Tellurium-132	2.38E+00	1.25E+01	0.00E+00	pCi/m3	UI
2224	702719009	10/28/2024	Tellurium-132	-1.05E+03	1.54E+03	0.00E+00	pCi/m3	U
2224	703169002	11/25/2024	Tellurium-132	1.95E+00	4.09E+00	0.00E+00	pCi/m3	UI
2224	706986003	12/24/2024	Tellurium-132	-3.48E+00	6.14E+00	0.00E+00	pCi/m3	U
2224	657104007	1/24/2024	Thallium-208	-3.05E-04	2.86E-04	8.87E-04	pCi/m3	U
2224	659797005	2/20/2024	Thallium-208	3.06E-04	4.05E-04	9.41E-04	pCi/m3	U
2224	664161005	3/19/2024	Thallium-208	4.43E-04	4.73E-04	6.59E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	669419005	4/16/2024	Thallium-208	-3.75E-04	3.92E-04	1.13E-03	pCi/m3	U
2224	674392001	5/13/2024	Thallium-208	1.15E-03	4.27E-04	8.09E-04	pCi/m3	UI
2224	676203006	6/11/2024	Thallium-208	1.54E-04	3.37E-04	1.09E-03	pCi/m3	U
2224	682054010	7/8/2024	Thallium-208	1.05E-04	3.69E-04	1.20E-03	pCi/m3	U
2224	691730010	8/6/2024	Thallium-208	1.13E-03	6.59E-04	1.06E-03	pCi/m3	UI
2224	691734003	8/27/2024	Thallium-208	3.33E-04	4.51E-04	8.05E-04	pCi/m3	U
2224	695577008	10/1/2024	Thallium-208	2.89E-04	5.49E-04	8.12E-04	pCi/m3	U
2224	702719009	10/28/2024	Thallium-208	4.64E-05	4.04E-04	1.33E-03	pCi/m3	U
2224	703169002	11/25/2024	Thallium-208	6.51E-05	2.85E-04	9.05E-04	pCi/m3	U
2224	706986003	12/24/2024	Thallium-208	6.62E-04	3.68E-04	1.24E-03	pCi/m3	U
2224	657104007	1/24/2024	Thorium-228	1.05E-03	6.10E-04	9.65E-04	pCi/m3	UI
2224	659797005	2/20/2024	Thorium-228	1.21E-03	4.96E-04	1.48E-03	pCi/m3	U
2224	664161005	3/19/2024	Thorium-228	7.43E-04	5.14E-04	8.07E-04	pCi/m3	U
2224	669419005	4/16/2024	Thorium-228	7.91E-04	6.92E-04	1.63E-03	pCi/m3	U
2224	674392001	5/13/2024	Thorium-228	1.55E-03	7.46E-04	2.02E-03	pCi/m3	U
2224	676203006	6/11/2024	Thorium-228	7.55E-04	5.22E-04	1.45E-03	pCi/m3	U
2224	682054010	7/8/2024	Thorium-228	1.06E-03	8.36E-04	1.71E-03	pCi/m3	U
2224	691730010	8/6/2024	Thorium-228	4.70E-04	5.67E-04	1.86E-03	pCi/m3	U
2224	691734003	8/27/2024	Thorium-228	7.68E-04	7.15E-04	1.63E-03	pCi/m3	U
2224	695577008	10/1/2024	Thorium-228	4.03E-04	7.59E-04	1.71E-03	pCi/m3	U
2224	702719009	10/28/2024	Thorium-228	1.16E-03	9.07E-04	1.92E-03	pCi/m3	U
2224	703169002	11/25/2024	Thorium-228	1.50E-03	5.53E-04	1.59E-03	pCi/m3	U
2224	706986003	12/24/2024	Thorium-228	1.40E-03	6.32E-04	1.10E-03	pCi/m3	UI
2224	657104007	1/24/2024	Thorium-230	6.25E-05	5.32E-04	1.77E-03	pCi/m3	U
2224	659797005	2/20/2024	Thorium-230	9.83E-04	7.37E-04	2.02E-03	pCi/m3	U
2224	664161005	3/19/2024	Thorium-230	-4.78E-06	5.67E-04	1.80E-03	pCi/m3	U
2224	669419005	4/16/2024	Thorium-230	1.11E-03	8.93E-04	2.17E-03	pCi/m3	U
2224	674392001	5/13/2024	Thorium-230	6.54E-04	6.90E-04	2.18E-03	pCi/m3	U
2224	676203006	6/11/2024	Thorium-230	2.01E-03	1.07E-03	2.21E-03	pCi/m3	U
2224	682054010	7/8/2024	Thorium-230	1.29E-04	9.12E-04	2.14E-03	pCi/m3	U
2224	691730010	8/6/2024	Thorium-230	1.89E-03	1.21E-03	2.13E-03	pCi/m3	U
2224	691734003	8/27/2024	Thorium-230	2.18E-03	8.13E-04	1.98E-03	pCi/m3	UI
2224	695577008	10/1/2024	Thorium-230	1.68E-03	9.18E-04	2.57E-03	pCi/m3	U
2224	702719009	10/28/2024	Thorium-230	-3.46E-04	7.04E-04	2.15E-03	pCi/m3	U
2224	703169002	11/25/2024	Thorium-230	4.73E-03	8.90E-04	1.40E-03	pCi/m3	U
2224	706986003	12/24/2024	Thorium-230	6.15E-04	6.29E-04	2.12E-03	pCi/m3	U
2224	657104007	1/24/2024	Thorium-232	-4.56E-04	1.17E-03	3.74E-03	pCi/m3	U
2224	659797005	2/20/2024	Thorium-232	2.15E-03	2.11E-03	4.35E-03	pCi/m3	U
2224	664161005	3/19/2024	Thorium-232	3.66E-03	1.29E-03	3.95E-03	pCi/m3	U
2224	669419005	4/16/2024	Thorium-232	3.51E-03	1.48E-03	4.74E-03	pCi/m3	U
2224	674392001	5/13/2024	Thorium-232	7.08E-04	1.84E-03	5.17E-03	pCi/m3	U
2224	676203006	6/11/2024	Thorium-232	-1.12E-03	1.43E-03	4.44E-03	pCi/m3	U
2224	682054010	7/8/2024	Thorium-232	1.83E-03	1.42E-03	5.10E-03	pCi/m3	U
2224	691730010	8/6/2024	Thorium-232	-2.96E-03	1.99E-03	5.50E-03	pCi/m3	U
2224	691734003	8/27/2024	Thorium-232	4.69E-04	1.34E-03	4.32E-03	pCi/m3	U
2224	695577008	10/1/2024	Thorium-232	-3.17E-04	1.38E-03	4.66E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	702719009	10/28/2024	Thorium-232	2.73E-03	1.89E-03	5.70E-03	pCi/m3	U
2224	703169002	11/25/2024	Thorium-232	3.64E-03	1.56E-03	4.68E-03	pCi/m3	U
2224	706986003	12/24/2024	Thorium-232	3.25E-03	1.72E-03	6.46E-03	pCi/m3	U
2224	657104007	1/24/2024	Thorium-234	-4.71E-03	7.80E-03	2.42E-02	pCi/m3	U
2224	659797005	2/20/2024	Thorium-234	7.95E-03	1.41E-02	3.30E-02	pCi/m3	U
2224	664161005	3/19/2024	Thorium-234	6.45E-05	1.00E-02	2.62E-02	pCi/m3	U
2224	669419005	4/16/2024	Thorium-234	-9.01E-03	9.65E-03	3.13E-02	pCi/m3	U
2224	674392001	5/13/2024	Thorium-234	3.75E-03	2.40E-02	4.90E-02	pCi/m3	U
2224	676203006	6/11/2024	Thorium-234	1.33E-02	1.48E-02	2.49E-02	pCi/m3	U
2224	682054010	7/8/2024	Thorium-234	-2.41E-03	7.95E-03	2.63E-02	pCi/m3	U
2224	691730010	8/6/2024	Thorium-234	4.56E-03	1.64E-02	2.96E-02	pCi/m3	U
2224	691734003	8/27/2024	Thorium-234	-3.24E-03	7.23E-03	2.29E-02	pCi/m3	U
2224	695577008	10/1/2024	Thorium-234	-4.57E-03	9.20E-03	2.92E-02	pCi/m3	U
2224	702719009	10/28/2024	Thorium-234	-2.09E-02	1.59E-02	5.14E-02	pCi/m3	U
2224	703169002	11/25/2024	Thorium-234	1.64E-03	7.50E-03	1.33E-02	pCi/m3	U
2224	706986003	12/24/2024	Thorium-234	-1.08E-02	8.22E-03	2.54E-02	pCi/m3	U
2224	657104007	1/24/2024	Uranium-234	6.25E-05	5.32E-04	1.77E-03	pCi/m3	U
2224	659797005	2/20/2024	Uranium-234	9.83E-04	7.37E-04	2.02E-03	pCi/m3	U
2224	664161005	3/19/2024	Uranium-234	-4.78E-06	5.67E-04	1.80E-03	pCi/m3	U
2224	669419005	4/16/2024	Uranium-234	1.11E-03	8.93E-04	2.17E-03	pCi/m3	U
2224	674392001	5/13/2024	Uranium-234	6.54E-04	6.90E-04	2.18E-03	pCi/m3	U
2224	676203006	6/11/2024	Uranium-234	2.01E-03	1.07E-03	2.21E-03	pCi/m3	U
2224	682054010	7/8/2024	Uranium-234	1.29E-04	9.12E-04	2.14E-03	pCi/m3	U
2224	691730010	8/6/2024	Uranium-234	1.89E-03	1.21E-03	2.13E-03	pCi/m3	U
2224	691734003	8/27/2024	Uranium-234	2.18E-03	8.13E-04	1.98E-03	pCi/m3	U
2224	695577008	10/1/2024	Uranium-234	1.68E-03	9.18E-04	2.57E-03	pCi/m3	U
2224	702719009	10/28/2024	Uranium-234	-3.46E-04	7.04E-04	2.15E-03	pCi/m3	U
2224	703169002	11/25/2024	Uranium-234	4.73E-03	8.90E-04	1.40E-03	pCi/m3	
2224	706986003	12/24/2024	Uranium-234	6.15E-04	6.29E-04	2.12E-03	pCi/m3	U
2224	657104007	1/24/2024	Zinc-65	-4.35E-04	5.04E-04	1.53E-03	pCi/m3	U
2224	659797005	2/20/2024	Zinc-65	-1.58E-04	7.44E-04	2.02E-03	pCi/m3	U
2224	664161005	3/19/2024	Zinc-65	1.35E-04	4.67E-04	1.63E-03	pCi/m3	U
2224	669419005	4/16/2024	Zinc-65	-8.98E-04	8.20E-04	2.41E-03	pCi/m3	U
2224	674392001	5/13/2024	Zinc-65	-8.30E-04	9.26E-04	2.80E-03	pCi/m3	U
2224	676203006	6/11/2024	Zinc-65	-5.44E-04	7.55E-04	2.22E-03	pCi/m3	U
2224	682054010	7/8/2024	Zinc-65	9.00E-04	6.24E-04	2.30E-03	pCi/m3	U
2224	691730010	8/6/2024	Zinc-65	-2.68E-04	1.08E-03	3.13E-03	pCi/m3	U
2224	691734003	8/27/2024	Zinc-65	-1.38E-04	5.71E-04	1.88E-03	pCi/m3	U
2224	695577008	10/1/2024	Zinc-65	-3.84E-04	8.91E-04	2.78E-03	pCi/m3	U
2224	702719009	10/28/2024	Zinc-65	1.79E-04	8.80E-04	2.96E-03	pCi/m3	U
2224	703169002	11/25/2024	Zinc-65	6.42E-04	6.54E-04	2.16E-03	pCi/m3	U
2224	706986003	12/24/2024	Zinc-65	3.70E-04	8.57E-04	2.94E-03	pCi/m3	U
2224	657104007	1/24/2024	Zirconium-95	4.61E-04	6.25E-04	2.14E-03	pCi/m3	U
2224	659797005	2/20/2024	Zirconium-95	-3.55E-06	6.09E-04	1.96E-03	pCi/m3	U
2224	664161005	3/19/2024	Zirconium-95	3.73E-04	4.95E-04	1.73E-03	pCi/m3	U
2224	669419005	4/16/2024	Zirconium-95	-4.21E-04	6.14E-04	1.94E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	674392001	5/13/2024	Zirconium-95	1.19E-04	1.00E-03	3.03E-03	pCi/m3	U
2224	676203006	6/11/2024	Zirconium-95	-1.14E-03	8.37E-04	2.34E-03	pCi/m3	U
2224	682054010	7/8/2024	Zirconium-95	-3.77E-04	1.01E-03	2.79E-03	pCi/m3	U
2224	691730010	8/6/2024	Zirconium-95	-1.91E-04	1.47E-03	4.72E-03	pCi/m3	U
2224	691734003	8/27/2024	Zirconium-95	-4.15E-04	9.73E-04	2.88E-03	pCi/m3	U
2224	695577008	10/1/2024	Zirconium-95	1.04E-03	7.91E-04	2.99E-03	pCi/m3	U
2224	702719009	10/28/2024	Zirconium-95	-7.00E-04	1.02E-03	3.19E-03	pCi/m3	U
2224	703169002	11/25/2024	Zirconium-95	-4.71E-04	7.66E-04	2.14E-03	pCi/m3	U
2224	706986003	12/24/2024	Zirconium-95	2.98E-04	7.29E-04	2.57E-03	pCi/m3	U
2225	657104008	1/24/2024	Actinium-228	-7.58E-04	1.30E-03	4.03E-03	pCi/m3	U
2225	659797004	2/20/2024	Actinium-228	2.65E-03	2.37E-03	6.43E-03	pCi/m3	U
2225	664161004	3/19/2024	Actinium-228	5.91E-03	1.56E-03	3.23E-03	pCi/m3	UI
2225	669419006	4/16/2024	Actinium-228	1.25E-03	1.41E-03	3.55E-03	pCi/m3	U
2225	674392005	5/13/2024	Actinium-228	4.52E-03	9.43E-04	4.31E-03	pCi/m3	UI
2225	676203005	6/11/2024	Actinium-228	8.60E-05	1.24E-03	4.17E-03	pCi/m3	U
2225	682054009	7/8/2024	Actinium-228	3.57E-03	2.18E-03	5.17E-03	pCi/m3	U
2225	691730009	8/6/2024	Actinium-228	3.34E-04	2.03E-04	5.87E-04	pCi/m3	U
2225	691734004	8/27/2024	Actinium-228	7.63E-04	1.19E-03	3.99E-03	pCi/m3	U
2225	695577007	10/1/2024	Actinium-228	-1.96E-04	1.28E-03	4.33E-03	pCi/m3	U
2225	702719010	10/28/2024	Actinium-228	-1.74E-03	1.02E-03	2.78E-03	pCi/m3	U
2225	703169003	11/25/2024	Actinium-228	-6.01E-04	1.44E-03	4.27E-03	pCi/m3	U
2225	706986002	12/24/2024	Actinium-228	1.90E-04	2.00E-03	5.13E-03	pCi/m3	U
2225	657104008	1/24/2024	Americium-241	-9.41E-04	1.21E-03	3.55E-03	pCi/m3	U
2225	659797004	2/20/2024	Americium-241	2.80E-04	3.18E-04	9.64E-04	pCi/m3	U
2225	664161004	3/19/2024	Americium-241	8.07E-04	8.97E-04	3.12E-03	pCi/m3	U
2225	669419006	4/16/2024	Americium-241	8.11E-04	1.06E-03	3.70E-03	pCi/m3	U
2225	674392005	5/13/2024	Americium-241	-2.68E-04	7.01E-04	2.31E-03	pCi/m3	U
2225	676203005	6/11/2024	Americium-241	3.00E-04	2.15E-03	7.14E-03	pCi/m3	U
2225	682054009	7/8/2024	Americium-241	8.04E-04	1.51E-03	4.82E-03	pCi/m3	U
2225	691730009	8/6/2024	Americium-241	1.03E-04	1.08E-04	3.89E-04	pCi/m3	U
2225	691734004	8/27/2024	Americium-241	3.42E-04	6.79E-04	2.19E-03	pCi/m3	U
2225	695577007	10/1/2024	Americium-241	-3.32E-07	1.77E-04	6.13E-04	pCi/m3	U
2225	702719010	10/28/2024	Americium-241	-1.94E-03	1.48E-03	4.30E-03	pCi/m3	U
2225	703169003	11/25/2024	Americium-241	-5.47E-04	2.23E-03	6.50E-03	pCi/m3	U
2225	706986002	12/24/2024	Americium-241	-2.12E-04	1.07E-03	3.30E-03	pCi/m3	U
2225	657104008	1/24/2024	Antimony-124	-4.94E-05	9.84E-04	3.18E-03	pCi/m3	U
2225	659797004	2/20/2024	Antimony-124	-1.10E-03	1.36E-03	3.97E-03	pCi/m3	U
2225	664161004	3/19/2024	Antimony-124	-6.22E-04	1.25E-03	3.80E-03	pCi/m3	U
2225	669419006	4/16/2024	Antimony-124	-6.33E-04	8.68E-04	2.37E-03	pCi/m3	U
2225	674392005	5/13/2024	Antimony-124	8.97E-04	8.12E-04	3.28E-03	pCi/m3	U
2225	676203005	6/11/2024	Antimony-124	-4.41E-05	9.26E-04	3.03E-03	pCi/m3	U
2225	682054009	7/8/2024	Antimony-124	9.22E-04	1.19E-03	4.21E-03	pCi/m3	U
2225	691730009	8/6/2024	Antimony-124	2.38E-04	2.46E-04	9.08E-04	pCi/m3	U
2225	691734004	8/27/2024	Antimony-124	9.12E-04	1.01E-03	3.85E-03	pCi/m3	U
2225	695577007	10/1/2024	Antimony-124	6.96E-04	1.62E-03	5.81E-03	pCi/m3	U
2225	702719010	10/28/2024	Antimony-124	8.91E-04	1.17E-03	4.40E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	703169003	11/25/2024	Antimony-124	2.46E-04	1.09E-03	3.67E-03	pCi/m3	U
2225	706986002	12/24/2024	Antimony-124	-2.07E-03	1.33E-03	3.50E-03	pCi/m3	U
2225	657104008	1/24/2024	Antimony-125	3.84E-04	5.08E-04	1.81E-03	pCi/m3	U
2225	659797004	2/20/2024	Antimony-125	2.11E-04	7.42E-04	2.42E-03	pCi/m3	U
2225	664161004	3/19/2024	Antimony-125	-3.81E-04	6.54E-04	2.08E-03	pCi/m3	U
2225	669419006	4/16/2024	Antimony-125	3.00E-04	5.09E-04	1.79E-03	pCi/m3	U
2225	674392005	5/13/2024	Antimony-125	-5.35E-04	4.92E-04	1.50E-03	pCi/m3	U
2225	676203005	6/11/2024	Antimony-125	-2.79E-04	5.43E-04	1.77E-03	pCi/m3	U
2225	682054009	7/8/2024	Antimony-125	9.14E-04	6.67E-04	2.37E-03	pCi/m3	U
2225	691730009	8/6/2024	Antimony-125	-9.68E-05	8.18E-05	2.52E-04	pCi/m3	U
2225	691734004	8/27/2024	Antimony-125	1.61E-05	5.69E-04	1.92E-03	pCi/m3	U
2225	695577007	10/1/2024	Antimony-125	1.04E-03	6.92E-04	2.59E-03	pCi/m3	U
2225	702719010	10/28/2024	Antimony-125	-1.02E-03	5.86E-04	1.70E-03	pCi/m3	U
2225	703169003	11/25/2024	Antimony-125	-6.80E-04	7.74E-04	2.35E-03	pCi/m3	U
2225	706986002	12/24/2024	Antimony-125	-8.77E-04	6.14E-04	1.82E-03	pCi/m3	U
2225	657104008	1/24/2024	Barium-140	-1.68E-03	5.15E-03	1.66E-02	pCi/m3	U
2225	659797004	2/20/2024	Barium-140	-2.32E-03	5.35E-03	1.74E-02	pCi/m3	U
2225	664161004	3/19/2024	Barium-140	-1.14E-03	6.77E-03	2.17E-02	pCi/m3	U
2225	669419006	4/16/2024	Barium-140	-1.08E-02	1.07E-02	2.99E-02	pCi/m3	U
2225	674392005	5/13/2024	Barium-140	2.05E-02	1.98E-02	7.13E-02	pCi/m3	U
2225	676203005	6/11/2024	Barium-140	2.94E-04	8.88E-03	2.97E-02	pCi/m3	U
2225	682054009	7/8/2024	Barium-140	3.63E-02	2.12E-02	5.17E-02	pCi/m3	U
2225	691730009	8/6/2024	Barium-140	3.98E-03	1.02E-02	3.42E-02	pCi/m3	U
2225	691734004	8/27/2024	Barium-140	-2.61E-04	2.86E-02	9.46E-02	pCi/m3	U
2225	695577007	10/1/2024	Barium-140	2.00E-02	1.63E-02	5.92E-02	pCi/m3	U
2225	702719010	10/28/2024	Barium-140	-6.12E-02	3.80E-02	1.06E-01	pCi/m3	U
2225	703169003	11/25/2024	Barium-140	1.22E-02	1.39E-02	4.93E-02	pCi/m3	U
2225	706986002	12/24/2024	Barium-140	-9.86E-03	1.03E-02	3.05E-02	pCi/m3	U
2225	657104008	1/24/2024	Beryllium-7	6.69E-02	6.94E-03	7.50E-03	pCi/m3	
2225	659797004	2/20/2024	Beryllium-7	1.02E-01	9.34E-03	1.11E-02	pCi/m3	
2225	664161004	3/19/2024	Beryllium-7	9.18E-02	7.96E-03	9.32E-03	pCi/m3	
2225	669419006	4/16/2024	Beryllium-7	1.21E-01	9.76E-03	9.81E-03	pCi/m3	
2225	674392005	5/13/2024	Beryllium-7	1.29E-01	1.16E-02	1.04E-02	pCi/m3	
2225	676203005	6/11/2024	Beryllium-7	1.33E-01	1.03E-02	1.05E-02	pCi/m3	
2225	682054009	7/8/2024	Beryllium-7	1.51E-01	1.00E-02	1.08E-02	pCi/m3	
2225	691730009	8/6/2024	Beryllium-7	1.04E-02	1.71E-03	2.54E-03	pCi/m3	
2225	691734004	8/27/2024	Beryllium-7	1.31E-01	1.07E-02	1.20E-02	pCi/m3	
2225	695577007	10/1/2024	Beryllium-7	9.99E-02	1.05E-02	1.17E-02	pCi/m3	
2225	702719010	10/28/2024	Beryllium-7	9.36E-02	1.16E-02	1.21E-02	pCi/m3	
2225	703169003	11/25/2024	Beryllium-7	5.68E-02	9.39E-03	1.48E-02	pCi/m3	
2225	706986002	12/24/2024	Beryllium-7	7.18E-02	9.69E-03	1.25E-02	pCi/m3	
2225	650210015	1/2/2024	BETA	3.57E-02	1.62E-03	1.42E-03	pCi/m3	
2225	650994023	1/8/2024	BETA	4.44E-02	2.02E-03	1.69E-03	pCi/m3	
2225	651848015	1/18/2024	BETA	4.22E-02	1.49E-03	9.82E-04	pCi/m3	
2225	652268019	1/24/2024	BETA	5.75E-02	2.25E-03	1.58E-03	pCi/m3	
2225	653178009	1/30/2024	BETA	1.78E-02	1.33E-03	1.67E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	654187004	2/6/2024	BETA	4.31E-02	1.81E-03	1.43E-03	pCi/m3	
2225	655008021	2/13/2024	BETA	2.58E-02	1.42E-03	1.42E-03	pCi/m3	
2225	655819009	2/20/2024	BETA	3.12E-02	1.56E-03	1.42E-03	pCi/m3	
2225	656511017	2/27/2024	BETA	3.25E-02	1.60E-03	1.37E-03	pCi/m3	
2225	657416015	3/4/2024	BETA	2.85E-02	1.54E-03	1.37E-03	pCi/m3	
2225	658450015	3/12/2024	BETA	2.01E-02	1.17E-03	1.16E-03	pCi/m3	
2225	659313007	3/19/2024	BETA	2.94E-02	1.49E-03	1.25E-03	pCi/m3	
2225	660083009	3/26/2024	BETA	3.34E-02	1.59E-03	1.29E-03	pCi/m3	
2225	660793007	4/1/2024	BETA	3.49E-02	1.72E-03	1.39E-03	pCi/m3	
2225	662052015	4/9/2024	BETA	2.46E-02	1.12E-03	8.91E-04	pCi/m3	
2225	662074017	4/16/2024	BETA	2.89E-02	1.48E-03	1.23E-03	pCi/m3	
2225	664092005	4/23/2024	BETA	2.65E-02	1.46E-03	1.37E-03	pCi/m3	
2225	665204009	4/30/2024	BETA	3.63E-02	1.67E-03	1.37E-03	pCi/m3	
2225	666121019	5/7/2024	BETA	2.75E-02	1.44E-03	1.25E-03	pCi/m3	
2225	667159009	5/13/2024	BETA	2.27E-02	1.48E-03	1.63E-03	pCi/m3	
2225	668220024	5/20/2024	BETA	2.66E-02	1.43E-03	1.29E-03	pCi/m3	
2225	669062007	5/28/2024	BETA	2.70E-02	1.39E-03	1.20E-03	pCi/m3	
2225	669755005	6/3/2024	BETA	2.26E-02	1.46E-03	1.56E-03	pCi/m3	
2225	670837009	6/11/2024	BETA	1.99E-02	1.06E-03	9.63E-04	pCi/m3	
2225	671897017	6/18/2024	BETA	4.74E-02	1.92E-03	1.37E-03	pCi/m3	
2225	672773019	6/25/2024	BETA	3.43E-02	1.60E-03	1.33E-03	pCi/m3	
2225	673676013	7/2/2024	BETA	3.11E-02	1.59E-03	1.41E-03	pCi/m3	
2225	674336017	7/8/2024	BETA	2.96E-02	1.69E-03	1.68E-03	pCi/m3	
2225	675686021	7/16/2024	BETA	1.22E-03	5.56E-05	4.52E-05	pCi/m3	M
2225	676802015	7/23/2024	BETA	2.32E-02	1.39E-03	1.47E-03	pCi/m3	
2225	677970013	7/30/2024	BETA	3.46E-02	1.68E-03	1.38E-03	pCi/m3	
2225	679202017	8/6/2024	BETA	3.29E-02	1.55E-03	1.27E-03	pCi/m3	
2225	680237005	8/13/2024	BETA	4.25E-02	1.84E-03	1.45E-03	pCi/m3	
2225	681488019	8/20/2024	BETA	4.27E-02	1.82E-03	1.28E-03	pCi/m3	
2225	682604007	8/27/2024	BETA	4.26E-02	1.85E-03	1.50E-03	pCi/m3	
2225	683692013	9/4/2024	BETA	4.05E-02	1.64E-03	1.24E-03	pCi/m3	
2225	684664013	9/10/2024	BETA	3.33E-02	1.78E-03	1.65E-03	pCi/m3	
2225	685842019	9/17/2024	BETA	3.59E-02	3.31E-03	1.37E-03	pCi/m3	
2225	686976003	9/23/2024	BETA	3.78E-02	1.78E-03	1.46E-03	pCi/m3	
2225	687851013	10/1/2024	BETA	2.55E-02	1.22E-03	1.04E-03	pCi/m3	
2225	689079011	10/8/2024	BETA	4.72E-02	1.78E-03	1.21E-03	pCi/m3	
2225	690093008	10/15/2024	BETA	4.37E-02	1.66E-03	1.12E-03	pCi/m3	
2225	691165005	10/22/2024	BETA	4.15E-02	1.64E-03	1.14E-03	pCi/m3	
2225	692327031	10/28/2024	BETA	6.26E-02	2.10E-03	1.25E-03	pCi/m3	
2225	693531003	11/4/2024	BETA	3.85E-02	1.67E-03	1.30E-03	pCi/m3	
2225	694911015	11/13/2024	BETA	3.25E-02	1.33E-03	9.39E-04	pCi/m3	
2225	696166006	11/20/2024	BETA	4.48E-02	1.93E-03	1.55E-03	pCi/m3	
2225	697367005	11/25/2024	BETA	3.47E-02	1.70E-03	1.60E-03	pCi/m3	
2225	698165015	12/4/2024	BETA	4.01E-02	1.48E-03	1.02E-03	pCi/m3	
2225	699433013	12/10/2024	BETA	4.35E-02	1.92E-03	1.55E-03	pCi/m3	
2225	700752011	12/17/2024	BETA	3.50E-02	1.57E-03	1.29E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	701911003	12/24/2024	BETA	2.93E-02	1.50E-03	1.50E-03	pCi/m3	
2225	657104008	1/24/2024	Bismuth-214	2.31E-04	8.08E-04	2.02E-03	pCi/m3	U
2225	659797004	2/20/2024	Bismuth-214	2.76E-04	7.74E-04	2.53E-03	pCi/m3	U
2225	664161004	3/19/2024	Bismuth-214	1.60E-03	1.06E-03	2.43E-03	pCi/m3	U
2225	669419006	4/16/2024	Bismuth-214	4.55E-04	6.18E-04	1.99E-03	pCi/m3	U
2225	674392005	5/13/2024	Bismuth-214	2.26E-04	6.47E-04	2.10E-03	pCi/m3	U
2225	676203005	6/11/2024	Bismuth-214	-1.29E-03	7.06E-04	2.18E-03	pCi/m3	U
2225	682054009	7/8/2024	Bismuth-214	9.96E-04	7.48E-04	2.49E-03	pCi/m3	U
2225	691730009	8/6/2024	Bismuth-214	3.05E-04	1.11E-04	2.17E-04	pCi/m3	
2225	691734004	8/27/2024	Bismuth-214	6.76E-04	5.94E-04	1.97E-03	pCi/m3	U
2225	695577007	10/1/2024	Bismuth-214	8.78E-04	1.15E-03	3.19E-03	pCi/m3	U
2225	702719010	10/28/2024	Bismuth-214	-3.33E-04	5.84E-04	1.81E-03	pCi/m3	U
2225	703169003	11/25/2024	Bismuth-214	4.37E-04	9.13E-04	2.11E-03	pCi/m3	U
2225	706986002	12/24/2024	Bismuth-214	2.35E-04	6.91E-04	2.43E-03	pCi/m3	U
2225	657104008	1/24/2024	Cerium-141	-6.13E-04	5.80E-04	1.63E-03	pCi/m3	U
2225	659797004	2/20/2024	Cerium-141	-1.07E-03	5.41E-04	1.65E-03	pCi/m3	U
2225	664161004	3/19/2024	Cerium-141	-2.28E-04	4.26E-04	1.36E-03	pCi/m3	U
2225	669419006	4/16/2024	Cerium-141	-9.30E-04	5.95E-04	1.73E-03	pCi/m3	U
2225	674392005	5/13/2024	Cerium-141	-2.67E-03	9.52E-04	2.35E-03	pCi/m3	U
2225	676203005	6/11/2024	Cerium-141	-4.34E-04	7.74E-04	2.33E-03	pCi/m3	U
2225	682054009	7/8/2024	Cerium-141	3.66E-04	8.97E-04	2.85E-03	pCi/m3	U
2225	691730009	8/6/2024	Cerium-141	-4.02E-04	2.26E-04	6.27E-04	pCi/m3	U
2225	691734004	8/27/2024	Cerium-141	1.75E-04	1.76E-03	2.71E-03	pCi/m3	U
2225	695577007	10/1/2024	Cerium-141	1.42E-04	7.16E-04	2.37E-03	pCi/m3	U
2225	702719010	10/28/2024	Cerium-141	-7.61E-05	1.24E-03	3.97E-03	pCi/m3	U
2225	703169003	11/25/2024	Cerium-141	2.88E-04	8.74E-04	2.92E-03	pCi/m3	U
2225	706986002	12/24/2024	Cerium-141	-8.64E-04	7.66E-04	2.33E-03	pCi/m3	U
2225	657104008	1/24/2024	Cerium-144	3.73E-04	1.05E-03	3.47E-03	pCi/m3	U
2225	659797004	2/20/2024	Cerium-144	-4.78E-04	1.16E-03	3.84E-03	pCi/m3	U
2225	664161004	3/19/2024	Cerium-144	4.41E-05	8.54E-04	2.85E-03	pCi/m3	U
2225	669419006	4/16/2024	Cerium-144	1.61E-03	1.72E-03	2.99E-03	pCi/m3	U
2225	674392005	5/13/2024	Cerium-144	1.27E-03	1.18E-03	4.06E-03	pCi/m3	U
2225	676203005	6/11/2024	Cerium-144	-7.83E-04	1.58E-03	4.37E-03	pCi/m3	U
2225	682054009	7/8/2024	Cerium-144	5.91E-05	1.27E-03	3.99E-03	pCi/m3	U
2225	691730009	8/6/2024	Cerium-144	7.39E-05	1.64E-04	5.52E-04	pCi/m3	U
2225	691734004	8/27/2024	Cerium-144	-1.95E-04	9.79E-04	3.14E-03	pCi/m3	U
2225	695577007	10/1/2024	Cerium-144	-1.66E-03	1.15E-03	3.49E-03	pCi/m3	U
2225	702719010	10/28/2024	Cerium-144	5.51E-04	1.20E-03	3.99E-03	pCi/m3	U
2225	703169003	11/25/2024	Cerium-144	-4.73E-04	1.48E-03	4.83E-03	pCi/m3	U
2225	706986002	12/24/2024	Cerium-144	2.37E-03	1.26E-03	4.43E-03	pCi/m3	U
2225	657104008	1/24/2024	Cesium-134	4.30E-05	2.41E-04	7.95E-04	pCi/m3	U
2225	659797004	2/20/2024	Cesium-134	3.21E-04	3.09E-04	1.13E-03	pCi/m3	U
2225	664161004	3/19/2024	Cesium-134	-1.98E-04	2.95E-04	9.20E-04	pCi/m3	U
2225	669419006	4/16/2024	Cesium-134	1.11E-04	2.61E-04	8.79E-04	pCi/m3	U
2225	674392005	5/13/2024	Cesium-134	-2.17E-05	2.59E-04	8.26E-04	pCi/m3	U
2225	676203005	6/11/2024	Cesium-134	-6.03E-05	3.66E-04	1.04E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	682054009	7/8/2024	Cesium-134	8.89E-05	3.32E-04	9.95E-04	pCi/m3	U
2225	691730009	8/6/2024	Cesium-134	1.68E-05	3.78E-05	1.32E-04	pCi/m3	U
2225	691734004	8/27/2024	Cesium-134	-2.07E-04	2.62E-04	7.62E-04	pCi/m3	U
2225	695577007	10/1/2024	Cesium-134	5.41E-04	3.81E-04	1.47E-03	pCi/m3	U
2225	702719010	10/28/2024	Cesium-134	-6.74E-04	3.75E-04	9.81E-04	pCi/m3	U
2225	703169003	11/25/2024	Cesium-134	-3.00E-04	3.53E-04	1.10E-03	pCi/m3	U
2225	706986002	12/24/2024	Cesium-134	-4.76E-05	3.40E-04	1.14E-03	pCi/m3	U
2225	657104008	1/24/2024	Cesium-137	-5.16E-04	3.05E-04	6.67E-04	pCi/m3	U
2225	659797004	2/20/2024	Cesium-137	3.50E-04	3.17E-04	1.16E-03	pCi/m3	U
2225	664161004	3/19/2024	Cesium-137	-9.75E-05	3.19E-04	9.85E-04	pCi/m3	U
2225	669419006	4/16/2024	Cesium-137	6.68E-04	2.36E-04	6.80E-04	pCi/m3	U
2225	674392005	5/13/2024	Cesium-137	-3.51E-04	2.18E-04	5.84E-04	pCi/m3	U
2225	676203005	6/11/2024	Cesium-137	-2.97E-04	2.73E-04	8.01E-04	pCi/m3	U
2225	682054009	7/8/2024	Cesium-137	-3.59E-04	2.71E-04	7.97E-04	pCi/m3	U
2225	691730009	8/6/2024	Cesium-137	2.98E-05	3.51E-05	1.20E-04	pCi/m3	U
2225	691734004	8/27/2024	Cesium-137	-2.46E-04	2.41E-04	7.10E-04	pCi/m3	U
2225	695577007	10/1/2024	Cesium-137	6.37E-04	3.20E-04	1.25E-03	pCi/m3	U
2225	702719010	10/28/2024	Cesium-137	1.08E-03	2.73E-04	8.03E-04	pCi/m3	UI
2225	703169003	11/25/2024	Cesium-137	1.36E-04	3.05E-04	1.06E-03	pCi/m3	U
2225	706986002	12/24/2024	Cesium-137	5.44E-04	3.91E-04	6.82E-04	pCi/m3	U
2225	657104008	1/24/2024	Chromium-51	2.49E-03	3.21E-03	1.16E-02	pCi/m3	U
2225	659797004	2/20/2024	Chromium-51	-1.66E-03	4.27E-03	1.35E-02	pCi/m3	U
2225	664161004	3/19/2024	Chromium-51	4.58E-03	4.06E-03	1.47E-02	pCi/m3	U
2225	669419006	4/16/2024	Chromium-51	7.02E-04	4.80E-03	1.66E-02	pCi/m3	U
2225	674392005	5/13/2024	Chromium-51	6.76E-03	6.58E-03	2.38E-02	pCi/m3	U
2225	676203005	6/11/2024	Chromium-51	-8.80E-04	5.66E-03	1.82E-02	pCi/m3	U
2225	682054009	7/8/2024	Chromium-51	6.75E-03	6.63E-03	2.25E-02	pCi/m3	U
2225	691730009	8/6/2024	Chromium-51	3.52E-04	1.74E-03	5.97E-03	pCi/m3	U
2225	691734004	8/27/2024	Chromium-51	-1.63E-04	7.77E-03	2.39E-02	pCi/m3	U
2225	695577007	10/1/2024	Chromium-51	-5.03E-03	6.57E-03	2.13E-02	pCi/m3	U
2225	702719010	10/28/2024	Chromium-51	-3.48E-03	9.37E-03	3.13E-02	pCi/m3	U
2225	703169003	11/25/2024	Chromium-51	5.12E-03	6.80E-03	2.30E-02	pCi/m3	U
2225	706986002	12/24/2024	Chromium-51	-6.06E-03	5.68E-03	1.81E-02	pCi/m3	U
2225	657104008	1/24/2024	Cobalt-57	-1.04E-05	1.31E-04	4.27E-04	pCi/m3	U
2225	659797004	2/20/2024	Cobalt-57	2.98E-04	1.55E-04	5.63E-04	pCi/m3	U
2225	664161004	3/19/2024	Cobalt-57	8.59E-05	1.26E-04	4.38E-04	pCi/m3	U
2225	669419006	4/16/2024	Cobalt-57	-2.34E-04	1.37E-04	4.03E-04	pCi/m3	U
2225	674392005	5/13/2024	Cobalt-57	3.13E-05	1.38E-04	4.56E-04	pCi/m3	U
2225	676203005	6/11/2024	Cobalt-57	1.95E-04	1.73E-04	5.83E-04	pCi/m3	U
2225	682054009	7/8/2024	Cobalt-57	2.19E-05	1.83E-04	5.82E-04	pCi/m3	U
2225	691730009	8/6/2024	Cobalt-57	6.45E-06	2.03E-05	6.82E-05	pCi/m3	U
2225	691734004	8/27/2024	Cobalt-57	1.34E-05	1.26E-04	4.15E-04	pCi/m3	U
2225	695577007	10/1/2024	Cobalt-57	9.67E-05	1.32E-04	4.54E-04	pCi/m3	U
2225	702719010	10/28/2024	Cobalt-57	-2.65E-05	1.56E-04	5.02E-04	pCi/m3	U
2225	703169003	11/25/2024	Cobalt-57	2.43E-04	2.02E-04	6.28E-04	pCi/m3	U
2225	706986002	12/24/2024	Cobalt-57	-2.66E-04	1.76E-04	4.80E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	657104008	1/24/2024	Cobalt-58	-7.91E-04	3.28E-04	6.69E-04	pCi/m3	U
2225	659797004	2/20/2024	Cobalt-58	3.36E-04	4.60E-04	1.61E-03	pCi/m3	U
2225	664161004	3/19/2024	Cobalt-58	-9.61E-05	4.03E-04	1.32E-03	pCi/m3	U
2225	669419006	4/16/2024	Cobalt-58	3.87E-04	3.36E-04	1.22E-03	pCi/m3	U
2225	674392005	5/13/2024	Cobalt-58	1.32E-04	3.90E-04	1.30E-03	pCi/m3	U
2225	676203005	6/11/2024	Cobalt-58	6.26E-04	4.08E-04	1.51E-03	pCi/m3	U
2225	682054009	7/8/2024	Cobalt-58	1.81E-04	3.73E-04	1.29E-03	pCi/m3	U
2225	691730009	8/6/2024	Cobalt-58	7.11E-06	6.75E-05	2.30E-04	pCi/m3	U
2225	691734004	8/27/2024	Cobalt-58	2.68E-04	3.94E-04	1.36E-03	pCi/m3	U
2225	695577007	10/1/2024	Cobalt-58	7.09E-04	4.97E-04	1.93E-03	pCi/m3	U
2225	702719010	10/28/2024	Cobalt-58	2.30E-04	5.65E-04	1.71E-03	pCi/m3	U
2225	703169003	11/25/2024	Cobalt-58	-1.64E-04	5.04E-04	1.40E-03	pCi/m3	U
2225	706986002	12/24/2024	Cobalt-58	-8.36E-05	4.68E-04	1.56E-03	pCi/m3	U
2225	657104008	1/24/2024	Cobalt-60	-6.89E-05	2.08E-04	6.47E-04	pCi/m3	U
2225	659797004	2/20/2024	Cobalt-60	-2.66E-04	3.74E-04	1.14E-03	pCi/m3	U
2225	664161004	3/19/2024	Cobalt-60	-9.40E-06	3.21E-04	1.07E-03	pCi/m3	U
2225	669419006	4/16/2024	Cobalt-60	-7.67E-05	2.42E-04	7.65E-04	pCi/m3	U
2225	674392005	5/13/2024	Cobalt-60	-3.09E-04	2.99E-04	8.53E-04	pCi/m3	U
2225	676203005	6/11/2024	Cobalt-60	-2.47E-04	3.89E-04	1.15E-03	pCi/m3	U
2225	682054009	7/8/2024	Cobalt-60	-6.63E-05	3.38E-04	1.11E-03	pCi/m3	U
2225	691730009	8/6/2024	Cobalt-60	2.52E-06	3.55E-05	1.15E-04	pCi/m3	U
2225	691734004	8/27/2024	Cobalt-60	-7.14E-06	3.20E-04	1.05E-03	pCi/m3	U
2225	695577007	10/1/2024	Cobalt-60	-5.89E-04	3.48E-04	6.14E-04	pCi/m3	U
2225	702719010	10/28/2024	Cobalt-60	-2.86E-04	4.98E-04	1.47E-03	pCi/m3	U
2225	703169003	11/25/2024	Cobalt-60	-2.36E-04	2.99E-04	8.63E-04	pCi/m3	U
2225	706986002	12/24/2024	Cobalt-60	2.79E-04	4.16E-04	1.44E-03	pCi/m3	U
2225	657104008	1/24/2024	Iron-59	6.24E-05	7.17E-04	2.45E-03	pCi/m3	U
2225	659797004	2/20/2024	Iron-59	-8.82E-04	1.19E-03	3.50E-03	pCi/m3	U
2225	664161004	3/19/2024	Iron-59	6.42E-04	7.90E-04	2.87E-03	pCi/m3	U
2225	669419006	4/16/2024	Iron-59	-5.04E-04	1.05E-03	2.87E-03	pCi/m3	U
2225	674392005	5/13/2024	Iron-59	4.59E-04	1.06E-03	3.76E-03	pCi/m3	U
2225	676203005	6/11/2024	Iron-59	-2.46E-05	1.08E-03	3.56E-03	pCi/m3	U
2225	682054009	7/8/2024	Iron-59	-1.21E-04	1.26E-03	4.07E-03	pCi/m3	U
2225	691730009	8/6/2024	Iron-59	5.59E-04	2.59E-04	1.02E-03	pCi/m3	U
2225	691734004	8/27/2024	Iron-59	2.44E-04	1.08E-03	3.72E-03	pCi/m3	U
2225	695577007	10/1/2024	Iron-59	8.35E-04	1.67E-03	5.83E-03	pCi/m3	U
2225	702719010	10/28/2024	Iron-59	-1.12E-03	1.38E-03	4.20E-03	pCi/m3	U
2225	703169003	11/25/2024	Iron-59	-1.17E-03	1.04E-03	2.21E-03	pCi/m3	U
2225	706986002	12/24/2024	Iron-59	-2.24E-03	1.19E-03	3.08E-03	pCi/m3	U
2225	657104008	1/24/2024	Lanthanum-140	-7.43E-04	1.89E-03	5.71E-03	pCi/m3	U
2225	659797004	2/20/2024	Lanthanum-140	-1.73E-03	2.37E-03	6.97E-03	pCi/m3	U
2225	664161004	3/19/2024	Lanthanum-140	3.64E-04	2.65E-03	8.94E-03	pCi/m3	U
2225	669419006	4/16/2024	Lanthanum-140	-1.37E-03	4.55E-03	1.41E-02	pCi/m3	U
2225	674392005	5/13/2024	Lanthanum-140	-2.66E-03	1.01E-02	3.19E-02	pCi/m3	U
2225	676203005	6/11/2024	Lanthanum-140	-6.68E-03	3.98E-03	9.55E-03	pCi/m3	U
2225	682054009	7/8/2024	Lanthanum-140	2.23E-03	5.21E-03	1.79E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	691730009	8/6/2024	Lanthanum-140	2.92E-03	5.38E-03	1.71E-02	pCi/m3	U
2225	691734004	8/27/2024	Lanthanum-140	-1.99E-02	1.06E-02	2.20E-02	pCi/m3	U
2225	695577007	10/1/2024	Lanthanum-140	5.76E-03	7.32E-03	2.76E-02	pCi/m3	U
2225	702719010	10/28/2024	Lanthanum-140	9.52E-03	1.48E-02	5.38E-02	pCi/m3	U
2225	703169003	11/25/2024	Lanthanum-140	1.62E-03	5.78E-03	1.94E-02	pCi/m3	U
2225	706986002	12/24/2024	Lanthanum-140	-2.47E-03	4.68E-03	1.47E-02	pCi/m3	U
2225	657104008	1/24/2024	Lead-210	-4.06E-02	5.20E-02	1.55E-01	pCi/m3	U
2225	659797004	2/20/2024	Lead-210	4.12E-02	6.23E-03	8.14E-03	pCi/m3	
2225	664161004	3/19/2024	Lead-210	2.15E-02	3.67E-02	1.15E-01	pCi/m3	U
2225	669419006	4/16/2024	Lead-210	2.83E-02	4.70E-02	1.64E-01	pCi/m3	U
2225	674392005	5/13/2024	Lead-210	8.60E-03	4.15E-02	5.52E-02	pCi/m3	U
2225	676203005	6/11/2024	Lead-210	1.06E-01	1.35E-01	4.68E-01	pCi/m3	U
2225	682054009	7/8/2024	Lead-210	-5.47E-02	6.24E-02	2.05E-01	pCi/m3	U
2225	691730009	8/6/2024	Lead-210	-1.03E-03	3.99E-03	1.17E-02	pCi/m3	U
2225	691734004	8/27/2024	Lead-210	1.21E-02	3.18E-02	6.14E-02	pCi/m3	U
2225	695577007	10/1/2024	Lead-210	3.07E-02	3.62E-03	6.34E-03	pCi/m3	
2225	702719010	10/28/2024	Lead-210	4.87E-02	6.58E-02	2.08E-01	pCi/m3	U
2225	703169003	11/25/2024	Lead-210	3.57E-02	9.03E-02	3.06E-01	pCi/m3	U
2225	706986002	12/24/2024	Lead-210	-4.81E-02	4.48E-02	1.35E-01	pCi/m3	U
2225	657104008	1/24/2024	Lead-212	7.58E-04	4.29E-04	1.51E-03	pCi/m3	U
2225	659797004	2/20/2024	Lead-212	6.55E-04	7.94E-04	1.73E-03	pCi/m3	U
2225	664161004	3/19/2024	Lead-212	1.01E-03	6.27E-04	1.00E-03	pCi/m3	UI
2225	669419006	4/16/2024	Lead-212	1.09E-03	4.97E-04	1.36E-03	pCi/m3	U
2225	674392005	5/13/2024	Lead-212	1.54E-03	6.54E-04	1.15E-03	pCi/m3	UI
2225	676203005	6/11/2024	Lead-212	1.27E-03	8.09E-04	1.82E-03	pCi/m3	U
2225	682054009	7/8/2024	Lead-212	9.60E-04	6.05E-04	1.23E-03	pCi/m3	U
2225	691730009	8/6/2024	Lead-212	8.10E-05	9.60E-05	2.09E-04	pCi/m3	U
2225	691734004	8/27/2024	Lead-212	7.84E-04	8.24E-04	1.67E-03	pCi/m3	U
2225	695577007	10/1/2024	Lead-212	7.03E-04	7.61E-04	1.65E-03	pCi/m3	U
2225	702719010	10/28/2024	Lead-212	1.71E-03	6.17E-04	1.11E-03	pCi/m3	
2225	703169003	11/25/2024	Lead-212	4.91E-04	5.38E-04	1.83E-03	pCi/m3	U
2225	706986002	12/24/2024	Lead-212	8.76E-04	4.58E-04	1.58E-03	pCi/m3	U
2225	657104008	1/24/2024	Lead-214	1.43E-03	6.84E-04	1.73E-03	pCi/m3	U
2225	659797004	2/20/2024	Lead-214	8.77E-04	8.84E-04	2.18E-03	pCi/m3	U
2225	664161004	3/19/2024	Lead-214	1.70E-03	1.04E-03	2.21E-03	pCi/m3	U
2225	669419006	4/16/2024	Lead-214	3.64E-04	4.99E-04	1.58E-03	pCi/m3	U
2225	674392005	5/13/2024	Lead-214	2.55E-04	5.81E-04	1.88E-03	pCi/m3	U
2225	676203005	6/11/2024	Lead-214	1.89E-03	1.06E-03	2.60E-03	pCi/m3	U
2225	682054009	7/8/2024	Lead-214	3.45E-04	7.23E-04	1.95E-03	pCi/m3	U
2225	691730009	8/6/2024	Lead-214	1.55E-04	1.16E-04	2.99E-04	pCi/m3	U
2225	691734004	8/27/2024	Lead-214	9.81E-05	8.31E-04	1.69E-03	pCi/m3	U
2225	695577007	10/1/2024	Lead-214	6.48E-04	1.15E-03	2.65E-03	pCi/m3	U
2225	702719010	10/28/2024	Lead-214	9.54E-04	8.72E-04	1.88E-03	pCi/m3	U
2225	703169003	11/25/2024	Lead-214	1.81E-03	6.89E-04	2.44E-03	pCi/m3	U
2225	706986002	12/24/2024	Lead-214	1.98E-03	9.67E-04	1.75E-03	pCi/m3	UI
2225	657104008	1/24/2024	Manganese-54	1.34E-04	2.66E-04	8.98E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	659797004	2/20/2024	Manganese-54	-1.15E-04	3.07E-04	9.64E-04	pCi/m3	U
2225	664161004	3/19/2024	Manganese-54	5.93E-04	3.11E-04	9.64E-04	pCi/m3	U
2225	669419006	4/16/2024	Manganese-54	-3.39E-04	2.79E-04	7.77E-04	pCi/m3	U
2225	674392005	5/13/2024	Manganese-54	8.26E-05	2.90E-04	9.55E-04	pCi/m3	U
2225	676203005	6/11/2024	Manganese-54	-4.78E-04	3.33E-04	9.04E-04	pCi/m3	U
2225	682054009	7/8/2024	Manganese-54	2.89E-04	3.08E-04	1.09E-03	pCi/m3	U
2225	691730009	8/6/2024	Manganese-54	-5.12E-05	3.78E-05	1.12E-04	pCi/m3	U
2225	691734004	8/27/2024	Manganese-54	-1.40E-04	2.89E-04	8.78E-04	pCi/m3	U
2225	695577007	10/1/2024	Manganese-54	-3.71E-04	3.72E-04	1.11E-03	pCi/m3	U
2225	702719010	10/28/2024	Manganese-54	3.18E-04	2.39E-04	9.91E-04	pCi/m3	U
2225	703169003	11/25/2024	Manganese-54	-1.10E-04	3.47E-04	1.13E-03	pCi/m3	U
2225	706986002	12/24/2024	Manganese-54	-3.32E-04	3.33E-04	8.09E-04	pCi/m3	U
2225	657104008	1/24/2024	Molybdenum-99	-1.94E+01	1.75E+01	0.00E+00	pCi/m3	U
2225	659797004	2/20/2024	Molybdenum-99	3.23E+00	8.58E+00	0.00E+00	pCi/m3	UI
2225	664161004	3/19/2024	Molybdenum-99	1.28E+00	2.21E+01	0.00E+00	pCi/m3	UI
2225	669419006	4/16/2024	Molybdenum-99	-7.98E+02	8.00E+02	0.00E+00	pCi/m3	U
2225	674392005	5/13/2024	Molybdenum-99	1.45E+04	1.46E+04	0.00E+00	pCi/m3	UI
2225	676203005	6/11/2024	Molybdenum-99	9.45E+01	2.02E+02	0.00E+00	pCi/m3	UI
2225	682054009	7/8/2024	Molybdenum-99	-2.21E+03	1.54E+03	0.00E+00	pCi/m3	U
2225	691730009	8/6/2024	Molybdenum-99	4.31E+05	7.26E+05	0.00E+00	pCi/m3	UI
2225	691734004	8/27/2024	Molybdenum-99	-2.52E+04	3.08E+04	0.00E+00	pCi/m3	U
2225	695577007	10/1/2024	Molybdenum-99	-7.66E+02	7.03E+02	0.00E+00	pCi/m3	U
2225	702719010	10/28/2024	Molybdenum-99	-1.23E+05	1.96E+05	0.00E+00	pCi/m3	U
2225	703169003	11/25/2024	Molybdenum-99	5.97E+02	5.57E+02	0.00E+00	pCi/m3	UI
2225	706986002	12/24/2024	Molybdenum-99	4.28E+02	3.59E+02	0.00E+00	pCi/m3	UI
2225	657104008	1/24/2024	Niobium-95	-4.79E-04	3.21E-04	8.49E-04	pCi/m3	U
2225	659797004	2/20/2024	Niobium-95	4.96E-04	4.71E-04	1.69E-03	pCi/m3	U
2225	664161004	3/19/2024	Niobium-95	-1.11E-04	3.58E-04	1.17E-03	pCi/m3	U
2225	669419006	4/16/2024	Niobium-95	3.09E-04	3.38E-04	1.20E-03	pCi/m3	U
2225	674392005	5/13/2024	Niobium-95	3.67E-05	5.25E-04	1.67E-03	pCi/m3	U
2225	676203005	6/11/2024	Niobium-95	2.10E-04	4.83E-04	1.62E-03	pCi/m3	U
2225	682054009	7/8/2024	Niobium-95	-1.73E-04	4.00E-04	1.31E-03	pCi/m3	U
2225	691730009	8/6/2024	Niobium-95	-1.63E-05	8.60E-05	2.52E-04	pCi/m3	U
2225	691734004	8/27/2024	Niobium-95	-1.19E-03	5.69E-04	1.40E-03	pCi/m3	U
2225	695577007	10/1/2024	Niobium-95	1.88E-04	6.10E-04	2.13E-03	pCi/m3	U
2225	702719010	10/28/2024	Niobium-95	-3.05E-04	6.11E-04	1.89E-03	pCi/m3	U
2225	703169003	11/25/2024	Niobium-95	4.78E-04	5.65E-04	1.42E-03	pCi/m3	U
2225	706986002	12/24/2024	Niobium-95	-3.84E-04	5.54E-04	1.65E-03	pCi/m3	U
2225	657104008	1/24/2024	Potassium-40	-7.45E-03	3.48E-03	1.12E-02	pCi/m3	U
2225	659797004	2/20/2024	Potassium-40	4.92E-04	6.27E-03	2.04E-02	pCi/m3	U
2225	664161004	3/19/2024	Potassium-40	7.28E-03	4.41E-03	1.69E-02	pCi/m3	U
2225	669419006	4/16/2024	Potassium-40	9.75E-03	5.23E-03	6.04E-03	pCi/m3	UI
2225	674392005	5/13/2024	Potassium-40	9.92E-03	5.43E-03	7.11E-03	pCi/m3	UI
2225	676203005	6/11/2024	Potassium-40	-4.13E-03	4.83E-03	1.71E-02	pCi/m3	U
2225	682054009	7/8/2024	Potassium-40	6.67E-03	6.91E-03	1.19E-02	pCi/m3	U
2225	691730009	8/6/2024	Potassium-40	-1.89E-04	6.40E-04	2.25E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	691734004	8/27/2024	Potassium-40	1.32E-02	4.57E-03	7.64E-03	pCi/m3	UI
2225	695577007	10/1/2024	Potassium-40	4.18E-03	6.40E-03	2.14E-02	pCi/m3	U
2225	702719010	10/28/2024	Potassium-40	-4.65E-03	4.59E-03	1.48E-02	pCi/m3	U
2225	703169003	11/25/2024	Potassium-40	2.64E-02	5.63E-03	7.66E-03	pCi/m3	
2225	706986002	12/24/2024	Potassium-40	5.69E-03	6.86E-03	1.07E-02	pCi/m3	U
2225	657104008	1/24/2024	Radium-226	1.43E-03	6.84E-04	1.73E-03	pCi/m3	U
2225	659797004	2/20/2024	Radium-226	8.77E-04	8.84E-04	2.18E-03	pCi/m3	U
2225	664161004	3/19/2024	Radium-226	1.70E-03	1.04E-03	2.21E-03	pCi/m3	U
2225	669419006	4/16/2024	Radium-226	3.64E-04	4.99E-04	1.58E-03	pCi/m3	U
2225	674392005	5/13/2024	Radium-226	2.55E-04	5.81E-04	1.88E-03	pCi/m3	U
2225	676203005	6/11/2024	Radium-226	1.89E-03	1.06E-03	2.60E-03	pCi/m3	U
2225	682054009	7/8/2024	Radium-226	3.45E-04	7.23E-04	1.95E-03	pCi/m3	U
2225	691730009	8/6/2024	Radium-226	1.55E-04	1.16E-04	2.99E-04	pCi/m3	U
2225	691734004	8/27/2024	Radium-226	9.81E-05	8.31E-04	1.69E-03	pCi/m3	U
2225	695577007	10/1/2024	Radium-226	6.48E-04	1.15E-03	2.65E-03	pCi/m3	U
2225	702719010	10/28/2024	Radium-226	9.54E-04	8.72E-04	1.88E-03	pCi/m3	U
2225	703169003	11/25/2024	Radium-226	1.81E-03	6.89E-04	2.44E-03	pCi/m3	U
2225	706986002	12/24/2024	Radium-226	1.98E-03	9.67E-04	1.75E-03	pCi/m3	UI
2225	657104008	1/24/2024	Radium-228	-7.58E-04	1.30E-03	4.03E-03	pCi/m3	U
2225	659797004	2/20/2024	Radium-228	2.65E-03	2.37E-03	6.43E-03	pCi/m3	U
2225	664161004	3/19/2024	Radium-228	5.91E-03	1.56E-03	3.23E-03	pCi/m3	UI
2225	669419006	4/16/2024	Radium-228	1.25E-03	1.41E-03	3.55E-03	pCi/m3	U
2225	674392005	5/13/2024	Radium-228	4.52E-03	9.43E-04	4.31E-03	pCi/m3	UI
2225	676203005	6/11/2024	Radium-228	8.60E-05	1.24E-03	4.17E-03	pCi/m3	U
2225	682054009	7/8/2024	Radium-228	3.57E-03	2.18E-03	5.17E-03	pCi/m3	U
2225	691730009	8/6/2024	Radium-228	3.34E-04	2.03E-04	5.87E-04	pCi/m3	U
2225	691734004	8/27/2024	Radium-228	7.63E-04	1.19E-03	3.99E-03	pCi/m3	U
2225	695577007	10/1/2024	Radium-228	-1.96E-04	1.28E-03	4.33E-03	pCi/m3	U
2225	702719010	10/28/2024	Radium-228	-1.74E-03	1.02E-03	2.78E-03	pCi/m3	U
2225	703169003	11/25/2024	Radium-228	-6.01E-04	1.44E-03	4.27E-03	pCi/m3	U
2225	706986002	12/24/2024	Radium-228	1.90E-04	2.00E-03	5.13E-03	pCi/m3	U
2225	657104008	1/24/2024	Ruthenium-103	4.39E-04	2.84E-04	1.08E-03	pCi/m3	U
2225	659797004	2/20/2024	Ruthenium-103	2.02E-04	4.13E-04	1.45E-03	pCi/m3	U
2225	664161004	3/19/2024	Ruthenium-103	1.59E-04	3.13E-04	1.08E-03	pCi/m3	U
2225	669419006	4/16/2024	Ruthenium-103	-3.45E-04	3.24E-04	9.46E-04	pCi/m3	U
2225	674392005	5/13/2024	Ruthenium-103	5.55E-04	4.69E-04	1.73E-03	pCi/m3	U
2225	676203005	6/11/2024	Ruthenium-103	-5.56E-05	4.62E-04	1.54E-03	pCi/m3	U
2225	682054009	7/8/2024	Ruthenium-103	1.84E-04	5.02E-04	1.71E-03	pCi/m3	U
2225	691730009	8/6/2024	Ruthenium-103	4.08E-05	1.14E-04	3.83E-04	pCi/m3	U
2225	691734004	8/27/2024	Ruthenium-103	5.92E-04	5.41E-04	1.97E-03	pCi/m3	U
2225	695577007	10/1/2024	Ruthenium-103	5.34E-04	6.22E-04	2.20E-03	pCi/m3	U
2225	702719010	10/28/2024	Ruthenium-103	-5.66E-04	7.55E-04	2.37E-03	pCi/m3	U
2225	703169003	11/25/2024	Ruthenium-103	-2.18E-04	5.67E-04	1.76E-03	pCi/m3	U
2225	706986002	12/24/2024	Ruthenium-103	-3.81E-05	5.35E-04	1.75E-03	pCi/m3	U
2225	657104008	1/24/2024	Ruthenium-106	-3.87E-05	1.89E-03	6.19E-03	pCi/m3	U
2225	659797004	2/20/2024	Ruthenium-106	9.40E-04	2.96E-03	1.02E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	664161004	3/19/2024	Ruthenium-106	1.91E-03	2.10E-03	7.38E-03	pCi/m3	U
2225	669419006	4/16/2024	Ruthenium-106	1.81E-03	1.92E-03	6.86E-03	pCi/m3	U
2225	674392005	5/13/2024	Ruthenium-106	-1.51E-04	2.28E-03	7.44E-03	pCi/m3	U
2225	676203005	6/11/2024	Ruthenium-106	-1.59E-03	3.02E-03	9.57E-03	pCi/m3	U
2225	682054009	7/8/2024	Ruthenium-106	1.39E-03	2.38E-03	8.04E-03	pCi/m3	U
2225	691730009	8/6/2024	Ruthenium-106	-1.36E-04	3.20E-04	9.92E-04	pCi/m3	U
2225	691734004	8/27/2024	Ruthenium-106	9.66E-04	2.16E-03	7.38E-03	pCi/m3	U
2225	695577007	10/1/2024	Ruthenium-106	2.81E-03	2.45E-03	9.03E-03	pCi/m3	U
2225	702719010	10/28/2024	Ruthenium-106	-7.53E-05	2.42E-03	7.93E-03	pCi/m3	U
2225	703169003	11/25/2024	Ruthenium-106	4.61E-04	2.71E-03	8.10E-03	pCi/m3	U
2225	706986002	12/24/2024	Ruthenium-106	-1.62E-03	3.17E-03	8.59E-03	pCi/m3	U
2225	657104008	1/24/2024	Selenium-75	-3.66E-04	2.73E-04	7.54E-04	pCi/m3	U
2225	659797004	2/20/2024	Selenium-75	4.86E-04	3.62E-04	1.27E-03	pCi/m3	U
2225	664161004	3/19/2024	Selenium-75	1.58E-04	2.82E-04	9.25E-04	pCi/m3	U
2225	669419006	4/16/2024	Selenium-75	2.91E-05	3.36E-04	1.06E-03	pCi/m3	U
2225	674392005	5/13/2024	Selenium-75	1.34E-04	3.78E-04	1.21E-03	pCi/m3	U
2225	676203005	6/11/2024	Selenium-75	-3.28E-05	3.61E-04	1.18E-03	pCi/m3	U
2225	682054009	7/8/2024	Selenium-75	-4.76E-04	3.71E-04	1.14E-03	pCi/m3	U
2225	691730009	8/6/2024	Selenium-75	-4.30E-06	5.16E-05	1.60E-04	pCi/m3	U
2225	691734004	8/27/2024	Selenium-75	1.37E-04	3.27E-04	1.06E-03	pCi/m3	U
2225	695577007	10/1/2024	Selenium-75	9.03E-05	4.07E-04	1.29E-03	pCi/m3	U
2225	702719010	10/28/2024	Selenium-75	2.10E-04	3.83E-04	1.24E-03	pCi/m3	U
2225	703169003	11/25/2024	Selenium-75	-3.04E-04	3.95E-04	1.24E-03	pCi/m3	U
2225	706986002	12/24/2024	Selenium-75	5.05E-05	3.59E-04	1.24E-03	pCi/m3	U
2225	657104008	1/24/2024	Silver-108m	-6.67E-05	1.48E-04	4.78E-04	pCi/m3	U
2225	659797004	2/20/2024	Silver-108m	4.40E-05	2.29E-04	7.39E-04	pCi/m3	U
2225	664161004	3/19/2024	Silver-108m	1.80E-05	2.01E-04	6.73E-04	pCi/m3	U
2225	669419006	4/16/2024	Silver-108m	1.23E-04	1.66E-04	5.88E-04	pCi/m3	U
2225	674392005	5/13/2024	Silver-108m	7.51E-05	1.82E-04	6.28E-04	pCi/m3	U
2225	676203005	6/11/2024	Silver-108m	3.47E-04	2.15E-04	8.03E-04	pCi/m3	U
2225	682054009	7/8/2024	Silver-108m	-2.69E-05	1.83E-04	6.11E-04	pCi/m3	U
2225	691730009	8/6/2024	Silver-108m	-8.01E-06	2.61E-05	8.49E-05	pCi/m3	U
2225	691734004	8/27/2024	Silver-108m	9.70E-06	1.78E-04	6.01E-04	pCi/m3	U
2225	695577007	10/1/2024	Silver-108m	-3.74E-04	2.28E-04	6.46E-04	pCi/m3	U
2225	702719010	10/28/2024	Silver-108m	2.60E-04	1.70E-04	6.37E-04	pCi/m3	U
2225	703169003	11/25/2024	Silver-108m	-3.28E-04	2.51E-04	7.38E-04	pCi/m3	U
2225	706986002	12/24/2024	Silver-108m	-1.68E-04	2.07E-04	6.47E-04	pCi/m3	U
2225	657104008	1/24/2024	Silver-110m	3.03E-04	3.11E-04	1.12E-03	pCi/m3	U
2225	659797004	2/20/2024	Silver-110m	-4.21E-04	5.16E-04	1.47E-03	pCi/m3	U
2225	664161004	3/19/2024	Silver-110m	-8.83E-04	4.04E-04	9.78E-04	pCi/m3	U
2225	669419006	4/16/2024	Silver-110m	2.64E-04	2.74E-04	9.99E-04	pCi/m3	U
2225	674392005	5/13/2024	Silver-110m	3.33E-04	3.47E-04	1.24E-03	pCi/m3	U
2225	676203005	6/11/2024	Silver-110m	-1.62E-04	4.22E-04	1.37E-03	pCi/m3	U
2225	682054009	7/8/2024	Silver-110m	1.38E-05	4.71E-04	1.48E-03	pCi/m3	U
2225	691730009	8/6/2024	Silver-110m	-1.08E-04	5.83E-05	1.62E-04	pCi/m3	U
2225	691734004	8/27/2024	Silver-110m	7.55E-05	4.17E-04	1.35E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	695577007	10/1/2024	Silver-110m	4.96E-04	5.31E-04	1.96E-03	pCi/m3	U
2225	702719010	10/28/2024	Silver-110m	-4.66E-04	3.84E-04	1.02E-03	pCi/m3	U
2225	703169003	11/25/2024	Silver-110m	-2.64E-04	3.77E-04	1.16E-03	pCi/m3	U
2225	706986002	12/24/2024	Silver-110m	2.69E-05	3.87E-04	1.31E-03	pCi/m3	U
2225	657104008	1/24/2024	Tellurium-132	6.40E-01	4.42E-01	0.00E+00	pCi/m3	UI
2225	659797004	2/20/2024	Tellurium-132	-1.69E-01	1.83E-01	0.00E+00	pCi/m3	U
2225	664161004	3/19/2024	Tellurium-132	4.57E-02	4.47E-01	0.00E+00	pCi/m3	UI
2225	669419006	4/16/2024	Tellurium-132	8.83E+00	1.04E+01	0.00E+00	pCi/m3	UI
2225	674392005	5/13/2024	Tellurium-132	-6.96E+01	8.58E+01	0.00E+00	pCi/m3	U
2225	676203005	6/11/2024	Tellurium-132	7.15E-01	1.92E+00	0.00E+00	pCi/m3	UI
2225	682054009	7/8/2024	Tellurium-132	-9.31E-01	2.09E+01	0.00E+00	pCi/m3	U
2225	691730009	8/6/2024	Tellurium-132	-1.97E+03	3.30E+03	0.00E+00	pCi/m3	U
2225	691734004	8/27/2024	Tellurium-132	3.23E+02	2.38E+02	0.00E+00	pCi/m3	UI
2225	695577007	10/1/2024	Tellurium-132	1.37E+01	1.13E+01	0.00E+00	pCi/m3	UI
2225	702719010	10/28/2024	Tellurium-132	-3.15E+03	1.24E+03	0.00E+00	pCi/m3	U
2225	703169003	11/25/2024	Tellurium-132	-6.46E+00	9.03E+00	0.00E+00	pCi/m3	U
2225	706986002	12/24/2024	Tellurium-132	-1.25E+00	5.96E+00	0.00E+00	pCi/m3	U
2225	657104008	1/24/2024	Thallium-208	1.05E-03	3.64E-04	5.91E-04	pCi/m3	UI
2225	659797004	2/20/2024	Thallium-208	3.21E-05	3.87E-04	1.26E-03	pCi/m3	U
2225	664161004	3/19/2024	Thallium-208	1.46E-04	2.63E-04	8.17E-04	pCi/m3	U
2225	669419006	4/16/2024	Thallium-208	8.30E-05	2.59E-04	8.40E-04	pCi/m3	U
2225	674392005	5/13/2024	Thallium-208	7.32E-04	4.20E-04	6.63E-04	pCi/m3	UI
2225	676203005	6/11/2024	Thallium-208	3.22E-04	3.15E-04	1.11E-03	pCi/m3	U
2225	682054009	7/8/2024	Thallium-208	1.47E-03	5.10E-04	8.24E-04	pCi/m3	UI
2225	691730009	8/6/2024	Thallium-208	1.20E-06	5.36E-05	1.05E-04	pCi/m3	U
2225	691734004	8/27/2024	Thallium-208	7.50E-05	3.26E-04	1.08E-03	pCi/m3	U
2225	695577007	10/1/2024	Thallium-208	6.35E-04	3.44E-04	1.29E-03	pCi/m3	U
2225	702719010	10/28/2024	Thallium-208	1.19E-04	3.21E-04	1.12E-03	pCi/m3	U
2225	703169003	11/25/2024	Thallium-208	9.81E-04	5.96E-04	7.92E-04	pCi/m3	UI
2225	706986002	12/24/2024	Thallium-208	6.24E-04	4.35E-04	9.93E-04	pCi/m3	U
2225	657104008	1/24/2024	Thorium-228	7.58E-04	4.29E-04	1.51E-03	pCi/m3	U
2225	659797004	2/20/2024	Thorium-228	6.55E-04	7.94E-04	1.73E-03	pCi/m3	U
2225	664161004	3/19/2024	Thorium-228	1.01E-03	6.27E-04	1.00E-03	pCi/m3	UI
2225	669419006	4/16/2024	Thorium-228	1.09E-03	4.97E-04	1.36E-03	pCi/m3	U
2225	674392005	5/13/2024	Thorium-228	1.54E-03	6.54E-04	1.15E-03	pCi/m3	UI
2225	676203005	6/11/2024	Thorium-228	1.27E-03	8.09E-04	1.82E-03	pCi/m3	U
2225	682054009	7/8/2024	Thorium-228	9.60E-04	6.05E-04	1.23E-03	pCi/m3	U
2225	691730009	8/6/2024	Thorium-228	8.10E-05	9.60E-05	2.09E-04	pCi/m3	U
2225	691734004	8/27/2024	Thorium-228	7.84E-04	8.24E-04	1.67E-03	pCi/m3	U
2225	695577007	10/1/2024	Thorium-228	7.03E-04	7.61E-04	1.65E-03	pCi/m3	U
2225	702719010	10/28/2024	Thorium-228	1.71E-03	6.17E-04	1.11E-03	pCi/m3	
2225	703169003	11/25/2024	Thorium-228	4.91E-04	5.38E-04	1.83E-03	pCi/m3	U
2225	706986002	12/24/2024	Thorium-228	8.76E-04	4.58E-04	1.58E-03	pCi/m3	U
2225	657104008	1/24/2024	Thorium-230	1.43E-03	6.84E-04	1.73E-03	pCi/m3	U
2225	659797004	2/20/2024	Thorium-230	8.77E-04	8.84E-04	2.18E-03	pCi/m3	U
2225	664161004	3/19/2024	Thorium-230	1.70E-03	1.04E-03	2.21E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	669419006	4/16/2024	Thorium-230	3.63E-04	4.99E-04	1.58E-03	pCi/m3	U
2225	674392005	5/13/2024	Thorium-230	2.55E-04	5.81E-04	1.88E-03	pCi/m3	U
2225	676203005	6/11/2024	Thorium-230	1.89E-03	1.06E-03	2.60E-03	pCi/m3	U
2225	682054009	7/8/2024	Thorium-230	3.45E-04	7.23E-04	1.95E-03	pCi/m3	U
2225	691730009	8/6/2024	Thorium-230	1.55E-04	1.16E-04	2.99E-04	pCi/m3	U
2225	691734004	8/27/2024	Thorium-230	9.81E-05	8.31E-04	1.69E-03	pCi/m3	U
2225	695577007	10/1/2024	Thorium-230	6.48E-04	1.15E-03	2.65E-03	pCi/m3	U
2225	702719010	10/28/2024	Thorium-230	9.54E-04	8.72E-04	1.88E-03	pCi/m3	U
2225	703169003	11/25/2024	Thorium-230	1.81E-03	6.89E-04	2.44E-03	pCi/m3	U
2225	706986002	12/24/2024	Thorium-230	1.98E-03	9.67E-04	1.75E-03	pCi/m3	UI
2225	657104008	1/24/2024	Thorium-232	-7.58E-04	1.30E-03	4.03E-03	pCi/m3	U
2225	659797004	2/20/2024	Thorium-232	2.65E-03	2.37E-03	6.43E-03	pCi/m3	U
2225	664161004	3/19/2024	Thorium-232	5.91E-03	1.56E-03	3.23E-03	pCi/m3	UI
2225	669419006	4/16/2024	Thorium-232	1.25E-03	1.41E-03	3.55E-03	pCi/m3	U
2225	674392005	5/13/2024	Thorium-232	4.52E-03	9.43E-04	4.31E-03	pCi/m3	UI
2225	676203005	6/11/2024	Thorium-232	8.60E-05	1.24E-03	4.17E-03	pCi/m3	U
2225	682054009	7/8/2024	Thorium-232	3.57E-03	2.18E-03	5.17E-03	pCi/m3	U
2225	691730009	8/6/2024	Thorium-232	3.34E-04	2.03E-04	5.87E-04	pCi/m3	U
2225	691734004	8/27/2024	Thorium-232	7.63E-04	1.19E-03	3.99E-03	pCi/m3	U
2225	695577007	10/1/2024	Thorium-232	-1.96E-04	1.28E-03	4.33E-03	pCi/m3	U
2225	702719010	10/28/2024	Thorium-232	-1.74E-03	1.02E-03	2.78E-03	pCi/m3	U
2225	703169003	11/25/2024	Thorium-232	-6.01E-04	1.44E-03	4.27E-03	pCi/m3	U
2225	706986002	12/24/2024	Thorium-232	1.90E-04	2.00E-03	5.13E-03	pCi/m3	U
2225	657104008	1/24/2024	Thorium-234	2.53E-02	1.57E-02	2.71E-02	pCi/m3	U
2225	659797004	2/20/2024	Thorium-234	1.92E-03	5.30E-03	1.58E-02	pCi/m3	U
2225	664161004	3/19/2024	Thorium-234	1.91E-02	1.48E-02	2.18E-02	pCi/m3	U
2225	669419006	4/16/2024	Thorium-234	-1.25E-02	9.12E-03	2.98E-02	pCi/m3	U
2225	674392005	5/13/2024	Thorium-234	-5.66E-03	7.82E-03	2.65E-02	pCi/m3	U
2225	676203005	6/11/2024	Thorium-234	-1.14E-02	1.65E-02	4.91E-02	pCi/m3	U
2225	682054009	7/8/2024	Thorium-234	3.70E-02	2.23E-02	4.35E-02	pCi/m3	U
2225	691730009	8/6/2024	Thorium-234	-2.87E-04	1.09E-03	3.54E-03	pCi/m3	U
2225	691734004	8/27/2024	Thorium-234	2.68E-02	1.27E-02	2.79E-02	pCi/m3	U
2225	695577007	10/1/2024	Thorium-234	-1.28E-03	1.88E-03	6.22E-03	pCi/m3	U
2225	702719010	10/28/2024	Thorium-234	-1.41E-02	1.18E-02	3.60E-02	pCi/m3	U
2225	703169003	11/25/2024	Thorium-234	5.36E-03	1.88E-02	4.66E-02	pCi/m3	U
2225	706986002	12/24/2024	Thorium-234	2.26E-02	2.22E-02	2.98E-02	pCi/m3	U
2225	657104008	1/24/2024	Uranium-234	1.43E-03	6.84E-04	1.73E-03	pCi/m3	U
2225	659797004	2/20/2024	Uranium-234	8.77E-04	8.84E-04	2.18E-03	pCi/m3	U
2225	664161004	3/19/2024	Uranium-234	1.70E-03	1.04E-03	2.21E-03	pCi/m3	U
2225	669419006	4/16/2024	Uranium-234	3.63E-04	4.99E-04	1.58E-03	pCi/m3	U
2225	674392005	5/13/2024	Uranium-234	2.55E-04	5.81E-04	1.88E-03	pCi/m3	U
2225	676203005	6/11/2024	Uranium-234	1.89E-03	1.06E-03	2.60E-03	pCi/m3	U
2225	682054009	7/8/2024	Uranium-234	3.45E-04	7.23E-04	1.95E-03	pCi/m3	U
2225	691730009	8/6/2024	Uranium-234	1.55E-04	1.16E-04	2.99E-04	pCi/m3	U
2225	691734004	8/27/2024	Uranium-234	9.81E-05	8.31E-04	1.69E-03	pCi/m3	U
2225	695577007	10/1/2024	Uranium-234	6.48E-04	1.15E-03	2.65E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	702719010	10/28/2024	Uranium-234	9.54E-04	8.72E-04	1.88E-03	pCi/m3	U
2225	703169003	11/25/2024	Uranium-234	1.81E-03	6.89E-04	2.44E-03	pCi/m3	U
2225	706986002	12/24/2024	Uranium-234	1.98E-03	9.67E-04	1.75E-03	pCi/m3	UI
2225	657104008	1/24/2024	Zinc-65	5.99E-04	5.53E-04	2.09E-03	pCi/m3	U
2225	659797004	2/20/2024	Zinc-65	8.16E-04	7.85E-04	2.84E-03	pCi/m3	U
2225	664161004	3/19/2024	Zinc-65	-3.27E-04	8.17E-04	2.53E-03	pCi/m3	U
2225	669419006	4/16/2024	Zinc-65	-3.04E-05	6.13E-04	2.06E-03	pCi/m3	U
2225	674392005	5/13/2024	Zinc-65	2.39E-04	6.41E-04	2.18E-03	pCi/m3	U
2225	676203005	6/11/2024	Zinc-65	5.06E-04	7.33E-04	2.60E-03	pCi/m3	U
2225	682054009	7/8/2024	Zinc-65	-1.87E-03	7.30E-04	1.82E-03	pCi/m3	U
2225	691730009	8/6/2024	Zinc-65	-1.03E-04	1.05E-04	2.51E-04	pCi/m3	U
2225	691734004	8/27/2024	Zinc-65	3.76E-04	7.31E-04	2.57E-03	pCi/m3	U
2225	695577007	10/1/2024	Zinc-65	5.18E-04	9.31E-04	3.27E-03	pCi/m3	U
2225	702719010	10/28/2024	Zinc-65	-5.26E-04	7.54E-04	2.36E-03	pCi/m3	U
2225	703169003	11/25/2024	Zinc-65	8.27E-04	6.53E-04	2.27E-03	pCi/m3	U
2225	706986002	12/24/2024	Zinc-65	3.97E-04	5.87E-04	2.10E-03	pCi/m3	U
2225	657104008	1/24/2024	Zirconium-95	1.18E-03	5.08E-04	2.00E-03	pCi/m3	U
2225	659797004	2/20/2024	Zirconium-95	-4.20E-04	8.62E-04	2.73E-03	pCi/m3	U
2225	664161004	3/19/2024	Zirconium-95	-2.79E-04	7.08E-04	2.30E-03	pCi/m3	U
2225	669419006	4/16/2024	Zirconium-95	4.89E-04	6.34E-04	2.22E-03	pCi/m3	U
2225	674392005	5/13/2024	Zirconium-95	-5.63E-04	6.84E-04	1.98E-03	pCi/m3	U
2225	676203005	6/11/2024	Zirconium-95	-9.17E-04	8.68E-04	2.54E-03	pCi/m3	U
2225	682054009	7/8/2024	Zirconium-95	-1.39E-04	7.09E-04	2.36E-03	pCi/m3	U
2225	691730009	8/6/2024	Zirconium-95	-1.28E-04	1.21E-04	3.72E-04	pCi/m3	U
2225	691734004	8/27/2024	Zirconium-95	1.07E-04	6.27E-04	2.07E-03	pCi/m3	U
2225	695577007	10/1/2024	Zirconium-95	8.95E-04	9.21E-04	3.44E-03	pCi/m3	U
2225	702719010	10/28/2024	Zirconium-95	1.42E-03	8.78E-04	3.31E-03	pCi/m3	U
2225	703169003	11/25/2024	Zirconium-95	4.04E-04	7.82E-04	2.72E-03	pCi/m3	U
2225	706986002	12/24/2024	Zirconium-95	-1.95E-04	8.68E-04	2.69E-03	pCi/m3	U
2229	657104009	1/24/2024	Actinium-228	-3.16E-03	1.56E-03	4.04E-03	pCi/m3	U
2229	659797003	2/21/2024	Actinium-228	1.30E-03	1.30E-03	4.65E-03	pCi/m3	U
2229	664161003	3/2/2024	Actinium-228	-4.22E-05	7.37E-04	2.25E-03	pCi/m3	U
2229	669419002	4/16/2024	Actinium-228	5.76E-04	1.84E-03	5.56E-03	pCi/m3	U
2229	674392004	5/14/2024	Actinium-228	3.16E-03	1.69E-03	6.39E-03	pCi/m3	U
2229	676203004	6/11/2024	Actinium-228	7.20E-05	2.10E-03	5.02E-03	pCi/m3	U
2229	682054008	7/9/2024	Actinium-228	1.62E-03	1.57E-03	5.14E-03	pCi/m3	U
2229	691730004	8/5/2024	Actinium-228	1.87E-03	1.50E-03	5.48E-03	pCi/m3	U
2229	691734011	8/27/2024	Actinium-228	6.76E-03	2.16E-03	6.99E-03	pCi/m3	U
2229	695577003	10/1/2024	Actinium-228	1.57E-03	1.65E-03	4.46E-03	pCi/m3	U
2229	702719001	10/28/2024	Actinium-228	7.78E-03	2.15E-03	6.51E-03	pCi/m3	UI
2229	703169010	11/26/2024	Actinium-228	2.09E-04	1.12E-03	3.85E-03	pCi/m3	U
2229	706986008	12/25/2024	Actinium-228	-7.09E-04	1.28E-03	4.17E-03	pCi/m3	U
2229	657104009	1/24/2024	Americium-241	2.42E-04	1.78E-03	6.04E-03	pCi/m3	U
2229	659797003	2/21/2024	Americium-241	1.76E-03	8.54E-04	2.93E-03	pCi/m3	U
2229	664161003	3/2/2024	Americium-241	3.48E-04	3.85E-04	1.17E-03	pCi/m3	U
2229	669419002	4/16/2024	Americium-241	9.52E-04	1.03E-03	3.70E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	674392004	5/14/2024	Americium-241	5.75E-04	5.13E-04	1.81E-03	pCi/m3	U
2229	676203004	6/11/2024	Americium-241	-6.01E-04	7.63E-04	2.46E-03	pCi/m3	U
2229	682054008	7/9/2024	Americium-241	1.39E-04	9.06E-04	3.15E-03	pCi/m3	U
2229	691730004	8/5/2024	Americium-241	-2.08E-05	7.16E-04	2.43E-03	pCi/m3	U
2229	691734011	8/27/2024	Americium-241	-7.72E-04	9.48E-04	2.91E-03	pCi/m3	U
2229	695577003	10/1/2024	Americium-241	1.85E-04	7.14E-04	2.43E-03	pCi/m3	U
2229	702719001	10/28/2024	Americium-241	2.94E-04	1.10E-03	3.75E-03	pCi/m3	U
2229	703169010	11/26/2024	Americium-241	8.03E-04	6.88E-04	2.50E-03	pCi/m3	U
2229	706986008	12/25/2024	Americium-241	-1.72E-03	1.62E-03	4.49E-03	pCi/m3	U
2229	657104009	1/24/2024	Antimony-124	1.27E-03	1.27E-03	4.67E-03	pCi/m3	U
2229	659797003	2/21/2024	Antimony-124	1.65E-04	1.13E-03	3.76E-03	pCi/m3	U
2229	664161003	3/2/2024	Antimony-124	-5.05E-04	6.63E-04	1.97E-03	pCi/m3	U
2229	669419002	4/16/2024	Antimony-124	1.91E-03	1.85E-03	6.97E-03	pCi/m3	U
2229	674392004	5/14/2024	Antimony-124	-1.48E-03	1.42E-03	3.99E-03	pCi/m3	U
2229	676203004	6/11/2024	Antimony-124	-1.16E-03	1.09E-03	2.85E-03	pCi/m3	U
2229	682054008	7/9/2024	Antimony-124	-3.68E-04	9.63E-04	2.96E-03	pCi/m3	U
2229	691730004	8/5/2024	Antimony-124	-1.53E-03	1.85E-03	4.69E-03	pCi/m3	U
2229	691734011	8/27/2024	Antimony-124	6.09E-04	1.96E-03	6.71E-03	pCi/m3	U
2229	695577003	10/1/2024	Antimony-124	-1.60E-04	1.11E-03	3.52E-03	pCi/m3	U
2229	702719001	10/28/2024	Antimony-124	-3.08E-04	1.70E-03	5.56E-03	pCi/m3	U
2229	703169010	11/26/2024	Antimony-124	-1.17E-03	9.93E-04	2.55E-03	pCi/m3	U
2229	706986008	12/25/2024	Antimony-124	1.50E-03	9.46E-04	3.82E-03	pCi/m3	U
2229	657104009	1/24/2024	Antimony-125	-7.53E-04	6.58E-04	1.93E-03	pCi/m3	U
2229	659797003	2/21/2024	Antimony-125	-1.08E-03	6.55E-04	1.94E-03	pCi/m3	U
2229	664161003	3/2/2024	Antimony-125	-4.89E-04	3.23E-04	8.95E-04	pCi/m3	U
2229	669419002	4/16/2024	Antimony-125	-5.44E-04	6.96E-04	2.16E-03	pCi/m3	U
2229	674392004	5/14/2024	Antimony-125	9.58E-04	7.29E-04	2.61E-03	pCi/m3	U
2229	676203004	6/11/2024	Antimony-125	5.29E-04	6.60E-04	2.34E-03	pCi/m3	U
2229	682054008	7/9/2024	Antimony-125	-1.09E-04	7.34E-04	2.42E-03	pCi/m3	U
2229	691730004	8/5/2024	Antimony-125	-1.54E-04	8.16E-04	2.60E-03	pCi/m3	U
2229	691734011	8/27/2024	Antimony-125	-1.08E-04	7.20E-04	2.36E-03	pCi/m3	U
2229	695577003	10/1/2024	Antimony-125	4.36E-04	5.60E-04	1.98E-03	pCi/m3	U
2229	702719001	10/28/2024	Antimony-125	-3.09E-04	7.86E-04	2.25E-03	pCi/m3	U
2229	703169010	11/26/2024	Antimony-125	-4.83E-04	4.95E-04	1.50E-03	pCi/m3	U
2229	706986008	12/25/2024	Antimony-125	-7.10E-04	6.84E-04	2.05E-03	pCi/m3	U
2229	657104009	1/24/2024	Barium-140	-7.68E-03	5.83E-03	1.58E-02	pCi/m3	U
2229	659797003	2/21/2024	Barium-140	9.84E-03	4.91E-03	1.73E-02	pCi/m3	U
2229	664161003	3/2/2024	Barium-140	9.51E-03	7.81E-03	2.78E-02	pCi/m3	U
2229	669419002	4/16/2024	Barium-140	1.34E-02	1.77E-02	6.14E-02	pCi/m3	U
2229	674392004	5/14/2024	Barium-140	-2.60E-02	2.03E-02	5.72E-02	pCi/m3	U
2229	676203004	6/11/2024	Barium-140	1.61E-03	9.32E-03	3.13E-02	pCi/m3	U
2229	682054008	7/9/2024	Barium-140	1.60E-02	1.57E-02	5.48E-02	pCi/m3	U
2229	691730004	8/5/2024	Barium-140	-1.13E-01	1.27E-01	3.38E-01	pCi/m3	U
2229	691734011	8/27/2024	Barium-140	4.03E-03	3.33E-02	1.09E-01	pCi/m3	U
2229	695577003	10/1/2024	Barium-140	-8.96E-03	1.32E-02	4.15E-02	pCi/m3	U
2229	702719001	10/28/2024	Barium-140	6.92E-02	7.14E-02	1.47E-01	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	703169010	11/26/2024	Barium-140	-1.98E-03	1.03E-02	3.28E-02	pCi/m3	U
2229	706986008	12/25/2024	Barium-140	-1.97E-03	1.14E-02	3.81E-02	pCi/m3	U
2229	657104009	1/24/2024	Beryllium-7	6.35E-02	6.93E-03	8.94E-03	pCi/m3	
2229	659797003	2/21/2024	Beryllium-7	7.33E-02	7.48E-03	1.02E-02	pCi/m3	
2229	664161003	3/2/2024	Beryllium-7	6.82E-02	5.68E-03	6.69E-03	pCi/m3	
2229	669419002	4/16/2024	Beryllium-7	1.41E-01	1.26E-02	1.61E-02	pCi/m3	
2229	674392004	5/14/2024	Beryllium-7	1.48E-01	1.25E-02	1.44E-02	pCi/m3	
2229	676203004	6/11/2024	Beryllium-7	1.30E-01	1.06E-02	1.22E-02	pCi/m3	
2229	682054008	7/9/2024	Beryllium-7	1.16E-01	1.19E-02	1.34E-02	pCi/m3	
2229	691730004	8/5/2024	Beryllium-7	9.65E-02	1.87E-02	2.11E-02	pCi/m3	
2229	691734011	8/27/2024	Beryllium-7	1.35E-01	1.64E-02	1.62E-02	pCi/m3	
2229	695577003	10/1/2024	Beryllium-7	1.15E-01	9.89E-03	1.11E-02	pCi/m3	
2229	702719001	10/28/2024	Beryllium-7	1.19E-01	1.47E-02	1.62E-02	pCi/m3	
2229	703169010	11/26/2024	Beryllium-7	8.21E-02	9.12E-03	1.09E-02	pCi/m3	
2229	706986008	12/25/2024	Beryllium-7	8.22E-02	8.27E-03	1.11E-02	pCi/m3	
2229	650210003	1/2/2024	BETA	4.27E-02	1.90E-03	1.55E-03	pCi/m3	
2229	650994003	1/8/2024	BETA	4.65E-02	1.93E-03	1.49E-03	pCi/m3	
2229	651848001	1/17/2024	BETA	4.63E-02	1.65E-03	1.11E-03	pCi/m3	
2229	652268021	1/24/2024	BETA	3.95E-02	1.76E-03	1.44E-03	pCi/m3	
2229	653178011	1/29/2024	BETA	1.07E-02	9.41E-04	1.33E-03	pCi/m3	
2229	654187009	2/6/2024	BETA	7.14E-02	3.13E-03	2.44E-03	pCi/m3	
2229	655008015	2/13/2024	BETA	2.57E-02	1.43E-03	1.37E-03	pCi/m3	
2229	655819007	2/21/2024	BETA	3.40E-02	1.60E-03	1.36E-03	pCi/m3	
2229	656511019	2/26/2024	BETA	3.34E-02	2.00E-03	2.03E-03	pCi/m3	
2229	659313005	3/2/2024	BETA	7.28E-03	4.09E-04	4.10E-04	pCi/m3	M
2229	657416019	3/4/2024	BETA	3.16E-02	1.69E-03	1.52E-03	pCi/m3	
2229	658450017	3/13/2024	BETA	2.30E-02	1.27E-03	1.19E-03	pCi/m3	
2229	660083021	3/27/2024	BETA	3.00E-02	1.66E-03	1.50E-03	pCi/m3	
2229	660793019	4/2/2024	BETA	4.06E-02	2.07E-03	1.80E-03	pCi/m3	
2229	662052017	4/8/2024	BETA	2.02E-02	1.47E-03	1.79E-03	pCi/m3	
2229	662074007	4/16/2024	BETA	2.87E-02	1.49E-03	1.26E-03	pCi/m3	
2229	664092019	4/23/2024	BETA	3.06E-02	1.60E-03	1.36E-03	pCi/m3	
2229	665204013	4/29/2024	BETA	3.59E-02	1.90E-03	1.79E-03	pCi/m3	
2229	666121007	5/6/2024	BETA	2.53E-02	1.50E-03	1.47E-03	pCi/m3	
2229	667159007	5/14/2024	BETA	2.93E-02	1.82E-03	1.81E-03	pCi/m3	
2229	668220004	5/20/2024	BETA	2.54E-02	1.63E-03	1.70E-03	pCi/m3	
2229	669062021	5/28/2024	BETA	2.72E-02	1.43E-03	1.33E-03	pCi/m3	
2229	669755021	6/4/2024	BETA	2.66E-02	1.56E-03	1.53E-03	pCi/m3	
2229	670837007	6/10/2024	BETA	2.26E-02	1.38E-03	1.44E-03	pCi/m3	
2229	671897019	6/17/2024	BETA	3.67E-02	1.80E-03	1.57E-03	pCi/m3	
2229	672773005	6/25/2024	BETA	3.04E-02	1.52E-03	1.32E-03	pCi/m3	
2229	673676021	7/1/2024	BETA	3.60E-02	1.93E-03	1.78E-03	pCi/m3	
2229	674336015	7/9/2024	BETA	2.80E-02	1.41E-03	1.23E-03	pCi/m3	
2229	675686001	7/15/2024	BETA	4.16E-02	2.11E-03	1.79E-03	pCi/m3	
2229	676802005	7/23/2024	BETA	2.54E-02	1.41E-03	1.39E-03	pCi/m3	
2229	677970003	7/30/2024	BETA	3.20E-02	1.70E-03	1.54E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	679202007	8/5/2024	BETA	3.39E-02	1.91E-03	1.91E-03	pCi/m3	
2229	680237009	8/13/2024	BETA	4.43E-02	1.82E-03	1.38E-03	pCi/m3	
2229	681488005	8/19/2024	BETA	4.49E-02	2.17E-03	1.89E-03	pCi/m3	
2229	682604021	8/27/2024	BETA	4.19E-02	1.80E-03	1.36E-03	pCi/m3	
2229	683692005	9/3/2024	BETA	3.91E-02	1.86E-03	1.64E-03	pCi/m3	
2229	684664003	9/10/2024	BETA	3.56E-02	1.83E-03	1.59E-03	pCi/m3	
2229	685842005	9/17/2024	BETA	3.39E-02	3.41E-03	1.57E-03	pCi/m3	
2229	686976015	9/24/2024	BETA	4.04E-02	1.70E-03	1.28E-03	pCi/m3	
2229	687851005	10/1/2024	BETA	2.95E-02	1.44E-03	1.25E-03	pCi/m3	
2229	689079019	10/8/2024	BETA	5.23E-02	1.88E-03	1.23E-03	pCi/m3	
2229	690093009	10/15/2024	BETA	5.13E-02	1.95E-03	1.29E-03	pCi/m3	
2229	691165015	10/22/2024	BETA	4.13E-02	1.64E-03	1.12E-03	pCi/m3	
2229	692327001	10/28/2024	BETA	5.76E-02	2.14E-03	1.52E-03	pCi/m3	
2229	693531015	11/5/2024	BETA	3.75E-02	1.48E-03	1.11E-03	pCi/m3	
2229	694911007	11/12/2024	BETA	3.56E-02	1.56E-03	1.18E-03	pCi/m3	
2229	696166021	11/20/2024	BETA	4.47E-02	1.63E-03	1.12E-03	pCi/m3	
2229	697367019	11/26/2024	BETA	3.60E-02	1.63E-03	1.38E-03	pCi/m3	
2229	698165007	12/4/2024	BETA	4.88E-02	1.70E-03	1.11E-03	pCi/m3	
2229	699433007	12/10/2024	BETA	4.84E-02	1.94E-03	1.49E-03	pCi/m3	
2229	700752020	12/17/2024	BETA	3.59E-02	1.48E-03	1.18E-03	pCi/m3	
2229	701911016	12/25/2024	BETA	3.25E-02	1.40E-03	1.15E-03	pCi/m3	
2229	657104009	1/24/2024	Bismuth-214	5.42E-04	8.63E-04	2.36E-03	pCi/m3	U
2229	659797003	2/21/2024	Bismuth-214	7.80E-04	7.27E-04	2.33E-03	pCi/m3	U
2229	664161003	3/2/2024	Bismuth-214	-7.51E-05	3.76E-04	1.21E-03	pCi/m3	U
2229	669419002	4/16/2024	Bismuth-214	5.53E-04	9.66E-04	2.76E-03	pCi/m3	U
2229	674392004	5/14/2024	Bismuth-214	1.06E-04	9.46E-04	2.24E-03	pCi/m3	U
2229	676203004	6/11/2024	Bismuth-214	7.04E-04	6.29E-04	2.22E-03	pCi/m3	U
2229	682054008	7/9/2024	Bismuth-214	1.58E-03	1.12E-03	2.57E-03	pCi/m3	U
2229	691730004	8/5/2024	Bismuth-214	5.69E-03	1.22E-03	4.07E-03	pCi/m3	UI
2229	691734011	8/27/2024	Bismuth-214	-8.56E-04	7.10E-04	2.00E-03	pCi/m3	U
2229	695577003	10/1/2024	Bismuth-214	2.14E-03	1.17E-03	1.64E-03	pCi/m3	UI
2229	702719001	10/28/2024	Bismuth-214	-1.48E-04	8.08E-04	2.59E-03	pCi/m3	U
2229	703169010	11/26/2024	Bismuth-214	5.76E-04	5.53E-04	1.93E-03	pCi/m3	U
2229	706986008	12/25/2024	Bismuth-214	3.16E-03	1.05E-03	2.22E-03	pCi/m3	UI
2229	657104009	1/24/2024	Cerium-141	-6.42E-04	6.47E-04	1.79E-03	pCi/m3	U
2229	659797003	2/21/2024	Cerium-141	-7.19E-05	5.82E-04	1.84E-03	pCi/m3	U
2229	664161003	3/2/2024	Cerium-141	-6.38E-05	4.19E-04	1.40E-03	pCi/m3	U
2229	669419002	4/16/2024	Cerium-141	9.08E-05	8.80E-04	2.88E-03	pCi/m3	U
2229	674392004	5/14/2024	Cerium-141	-9.46E-04	1.06E-03	3.22E-03	pCi/m3	U
2229	676203004	6/11/2024	Cerium-141	-6.31E-05	6.71E-04	2.16E-03	pCi/m3	U
2229	682054008	7/9/2024	Cerium-141	2.30E-04	9.99E-04	2.92E-03	pCi/m3	U
2229	691730004	8/5/2024	Cerium-141	1.28E-03	4.39E-03	5.47E-03	pCi/m3	U
2229	691734011	8/27/2024	Cerium-141	-2.26E-03	1.11E-03	3.21E-03	pCi/m3	U
2229	695577003	10/1/2024	Cerium-141	-5.97E-04	6.97E-04	2.14E-03	pCi/m3	U
2229	702719001	10/28/2024	Cerium-141	3.23E-03	2.74E-03	4.01E-03	pCi/m3	U
2229	703169010	11/26/2024	Cerium-141	-6.94E-04	5.96E-04	1.80E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	706986008	12/25/2024	Cerium-141	1.59E-03	7.89E-04	2.80E-03	pCi/m3	U
2229	657104009	1/24/2024	Cerium-144	-1.19E-03	1.23E-03	3.69E-03	pCi/m3	U
2229	659797003	2/21/2024	Cerium-144	2.30E-04	1.27E-03	4.09E-03	pCi/m3	U
2229	664161003	3/2/2024	Cerium-144	1.71E-04	6.92E-04	2.37E-03	pCi/m3	U
2229	669419002	4/16/2024	Cerium-144	1.29E-03	1.20E-03	4.19E-03	pCi/m3	U
2229	674392004	5/14/2024	Cerium-144	-2.15E-03	1.36E-03	4.01E-03	pCi/m3	U
2229	676203004	6/11/2024	Cerium-144	-1.34E-03	1.15E-03	3.48E-03	pCi/m3	U
2229	682054008	7/9/2024	Cerium-144	-1.08E-03	1.34E-03	4.24E-03	pCi/m3	U
2229	691730004	8/5/2024	Cerium-144	-7.48E-04	1.58E-03	5.03E-03	pCi/m3	U
2229	691734011	8/27/2024	Cerium-144	4.42E-04	1.23E-03	4.16E-03	pCi/m3	U
2229	695577003	10/1/2024	Cerium-144	3.32E-04	1.10E-03	3.64E-03	pCi/m3	U
2229	702719001	10/28/2024	Cerium-144	-9.24E-04	1.29E-03	4.01E-03	pCi/m3	U
2229	703169010	11/26/2024	Cerium-144	2.45E-04	8.96E-04	2.77E-03	pCi/m3	U
2229	706986008	12/25/2024	Cerium-144	3.67E-03	1.41E-03	4.14E-03	pCi/m3	U
2229	657104009	1/24/2024	Cesium-134	4.19E-04	3.17E-04	1.17E-03	pCi/m3	U
2229	659797003	2/21/2024	Cesium-134	1.23E-05	3.71E-04	1.14E-03	pCi/m3	U
2229	664161003	3/2/2024	Cesium-134	2.87E-04	1.64E-04	6.33E-04	pCi/m3	U
2229	669419002	4/16/2024	Cesium-134	6.88E-04	3.57E-04	1.42E-03	pCi/m3	U
2229	674392004	5/14/2024	Cesium-134	-6.22E-04	3.29E-04	9.22E-04	pCi/m3	U
2229	676203004	6/11/2024	Cesium-134	9.22E-04	3.52E-04	1.38E-03	pCi/m3	U
2229	682054008	7/9/2024	Cesium-134	2.70E-04	3.48E-04	1.24E-03	pCi/m3	U
2229	691730004	8/5/2024	Cesium-134	-5.60E-04	4.45E-04	1.23E-03	pCi/m3	U
2229	691734011	8/27/2024	Cesium-134	-5.48E-05	3.48E-04	1.15E-03	pCi/m3	U
2229	695577003	10/1/2024	Cesium-134	1.71E-04	2.94E-04	1.00E-03	pCi/m3	U
2229	702719001	10/28/2024	Cesium-134	2.49E-05	3.09E-04	1.06E-03	pCi/m3	U
2229	703169010	11/26/2024	Cesium-134	9.06E-04	4.20E-04	1.15E-03	pCi/m3	U
2229	706986008	12/25/2024	Cesium-134	-9.81E-05	3.35E-04	9.36E-04	pCi/m3	U
2229	657104009	1/24/2024	Cesium-137	-1.34E-04	2.74E-04	8.78E-04	pCi/m3	U
2229	659797003	2/21/2024	Cesium-137	3.13E-04	3.01E-04	1.06E-03	pCi/m3	U
2229	664161003	3/2/2024	Cesium-137	-1.43E-04	1.58E-04	4.62E-04	pCi/m3	U
2229	669419002	4/16/2024	Cesium-137	1.37E-04	2.51E-04	8.64E-04	pCi/m3	U
2229	674392004	5/14/2024	Cesium-137	-9.34E-04	4.01E-04	1.01E-03	pCi/m3	U
2229	676203004	6/11/2024	Cesium-137	-3.22E-04	2.86E-04	8.14E-04	pCi/m3	U
2229	682054008	7/9/2024	Cesium-137	-9.28E-05	2.80E-04	8.67E-04	pCi/m3	U
2229	691730004	8/5/2024	Cesium-137	5.10E-04	3.33E-04	1.26E-03	pCi/m3	U
2229	691734011	8/27/2024	Cesium-137	2.69E-04	2.79E-04	9.87E-04	pCi/m3	U
2229	695577003	10/1/2024	Cesium-137	2.60E-04	2.39E-04	8.57E-04	pCi/m3	U
2229	702719001	10/28/2024	Cesium-137	1.35E-03	5.91E-04	1.02E-03	pCi/m3	UI
2229	703169010	11/26/2024	Cesium-137	2.10E-04	2.37E-04	8.23E-04	pCi/m3	U
2229	706986008	12/25/2024	Cesium-137	-2.45E-04	3.38E-04	9.18E-04	pCi/m3	U
2229	657104009	1/24/2024	Chromium-51	-3.04E-03	3.97E-03	1.25E-02	pCi/m3	U
2229	659797003	2/21/2024	Chromium-51	3.68E-04	3.99E-03	1.36E-02	pCi/m3	U
2229	664161003	3/2/2024	Chromium-51	-1.33E-03	3.78E-03	1.21E-02	pCi/m3	U
2229	669419002	4/16/2024	Chromium-51	8.43E-03	7.12E-03	2.59E-02	pCi/m3	U
2229	674392004	5/14/2024	Chromium-51	8.44E-03	7.90E-03	2.82E-02	pCi/m3	U
2229	676203004	6/11/2024	Chromium-51	-7.07E-04	4.91E-03	1.67E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	682054008	7/9/2024	Chromium-51	3.46E-04	6.74E-03	2.30E-02	pCi/m3	U
2229	691730004	8/5/2024	Chromium-51	2.63E-02	1.96E-02	6.76E-02	pCi/m3	U
2229	691734011	8/27/2024	Chromium-51	9.61E-03	1.02E-02	3.64E-02	pCi/m3	U
2229	695577003	10/1/2024	Chromium-51	2.21E-03	5.44E-03	1.91E-02	pCi/m3	U
2229	702719001	10/28/2024	Chromium-51	6.28E-03	1.13E-02	3.93E-02	pCi/m3	U
2229	703169010	11/26/2024	Chromium-51	-2.08E-03	3.76E-03	1.22E-02	pCi/m3	U
2229	706986008	12/25/2024	Chromium-51	-9.20E-04	5.65E-03	1.81E-02	pCi/m3	U
2229	657104009	1/24/2024	Cobalt-57	8.82E-05	1.68E-04	5.28E-04	pCi/m3	U
2229	659797003	2/21/2024	Cobalt-57	2.05E-04	1.46E-04	5.03E-04	pCi/m3	U
2229	664161003	3/2/2024	Cobalt-57	-1.90E-05	7.89E-05	2.65E-04	pCi/m3	U
2229	669419002	4/16/2024	Cobalt-57	5.91E-05	1.58E-04	5.32E-04	pCi/m3	U
2229	674392004	5/14/2024	Cobalt-57	1.32E-04	1.63E-04	5.48E-04	pCi/m3	U
2229	676203004	6/11/2024	Cobalt-57	1.78E-04	1.34E-04	4.48E-04	pCi/m3	U
2229	682054008	7/9/2024	Cobalt-57	-1.50E-04	1.68E-04	5.33E-04	pCi/m3	U
2229	691730004	8/5/2024	Cobalt-57	-3.47E-04	2.31E-04	6.01E-04	pCi/m3	U
2229	691734011	8/27/2024	Cobalt-57	-4.33E-05	1.69E-04	5.58E-04	pCi/m3	U
2229	695577003	10/1/2024	Cobalt-57	3.23E-05	1.41E-04	4.65E-04	pCi/m3	U
2229	702719001	10/28/2024	Cobalt-57	7.36E-05	1.61E-04	5.37E-04	pCi/m3	U
2229	703169010	11/26/2024	Cobalt-57	-1.52E-05	1.11E-04	3.63E-04	pCi/m3	U
2229	706986008	12/25/2024	Cobalt-57	3.25E-04	2.40E-04	5.65E-04	pCi/m3	U
2229	657104009	1/24/2024	Cobalt-58	-1.57E-04	2.79E-04	8.43E-04	pCi/m3	U
2229	659797003	2/21/2024	Cobalt-58	-4.83E-04	3.12E-04	8.03E-04	pCi/m3	U
2229	664161003	3/2/2024	Cobalt-58	1.62E-04	2.37E-04	7.64E-04	pCi/m3	U
2229	669419002	4/16/2024	Cobalt-58	2.94E-04	3.66E-04	1.36E-03	pCi/m3	U
2229	674392004	5/14/2024	Cobalt-58	-8.30E-05	4.41E-04	1.46E-03	pCi/m3	U
2229	676203004	6/11/2024	Cobalt-58	-5.41E-04	3.80E-04	1.00E-03	pCi/m3	U
2229	682054008	7/9/2024	Cobalt-58	-7.77E-04	4.74E-04	1.38E-03	pCi/m3	U
2229	691730004	8/5/2024	Cobalt-58	-1.94E-03	8.06E-04	1.60E-03	pCi/m3	U
2229	691734011	8/27/2024	Cobalt-58	6.68E-05	5.45E-04	1.85E-03	pCi/m3	U
2229	695577003	10/1/2024	Cobalt-58	6.29E-04	3.59E-04	1.37E-03	pCi/m3	U
2229	702719001	10/28/2024	Cobalt-58	-1.36E-04	4.66E-04	1.53E-03	pCi/m3	U
2229	703169010	11/26/2024	Cobalt-58	1.44E-04	3.14E-04	1.11E-03	pCi/m3	U
2229	706986008	12/25/2024	Cobalt-58	-1.07E-03	4.44E-04	1.06E-03	pCi/m3	U
2229	657104009	1/24/2024	Cobalt-60	3.77E-04	3.67E-04	1.36E-03	pCi/m3	U
2229	659797003	2/21/2024	Cobalt-60	1.05E-04	3.44E-04	1.18E-03	pCi/m3	U
2229	664161003	3/2/2024	Cobalt-60	2.41E-05	1.83E-04	6.04E-04	pCi/m3	U
2229	669419002	4/16/2024	Cobalt-60	6.03E-05	5.17E-04	1.69E-03	pCi/m3	U
2229	674392004	5/14/2024	Cobalt-60	2.81E-04	3.23E-04	1.14E-03	pCi/m3	U
2229	676203004	6/11/2024	Cobalt-60	-1.60E-04	3.32E-04	1.03E-03	pCi/m3	U
2229	682054008	7/9/2024	Cobalt-60	1.27E-03	4.55E-04	1.34E-03	pCi/m3	U
2229	691730004	8/5/2024	Cobalt-60	-4.16E-04	4.64E-04	1.36E-03	pCi/m3	U
2229	691734011	8/27/2024	Cobalt-60	6.40E-04	3.65E-04	1.49E-03	pCi/m3	U
2229	695577003	10/1/2024	Cobalt-60	-1.92E-05	2.78E-04	9.14E-04	pCi/m3	U
2229	702719001	10/28/2024	Cobalt-60	1.57E-04	3.99E-04	1.35E-03	pCi/m3	U
2229	703169010	11/26/2024	Cobalt-60	5.25E-05	3.69E-04	1.21E-03	pCi/m3	U
2229	706986008	12/25/2024	Cobalt-60	2.01E-04	3.04E-04	1.07E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	657104009	1/24/2024	Iron-59	1.36E-03	1.06E-03	3.72E-03	pCi/m3	U
2229	659797003	2/21/2024	Iron-59	9.50E-04	6.05E-04	2.46E-03	pCi/m3	U
2229	664161003	3/2/2024	Iron-59	-4.65E-04	6.40E-04	1.91E-03	pCi/m3	U
2229	669419002	4/16/2024	Iron-59	1.01E-03	1.21E-03	4.13E-03	pCi/m3	U
2229	674392004	5/14/2024	Iron-59	-1.67E-04	1.32E-03	4.27E-03	pCi/m3	U
2229	676203004	6/11/2024	Iron-59	-5.93E-04	9.45E-04	2.94E-03	pCi/m3	U
2229	682054008	7/9/2024	Iron-59	-4.25E-04	1.52E-03	4.19E-03	pCi/m3	U
2229	691730004	8/5/2024	Iron-59	-2.70E-03	2.97E-03	9.06E-03	pCi/m3	U
2229	691734011	8/27/2024	Iron-59	2.67E-04	9.68E-04	3.34E-03	pCi/m3	U
2229	695577003	10/1/2024	Iron-59	0.00E+00	9.21E-04	3.10E-03	pCi/m3	U
2229	702719001	10/28/2024	Iron-59	-5.37E-04	1.81E-03	5.77E-03	pCi/m3	U
2229	703169010	11/26/2024	Iron-59	-2.45E-04	8.92E-04	2.81E-03	pCi/m3	U
2229	706986008	12/25/2024	Iron-59	-1.09E-03	9.46E-04	2.68E-03	pCi/m3	U
2229	657104009	1/24/2024	Lanthanum-140	-3.04E-04	2.96E-03	9.45E-03	pCi/m3	U
2229	659797003	2/21/2024	Lanthanum-140	-5.00E-04	1.21E-03	3.58E-03	pCi/m3	U
2229	664161003	3/2/2024	Lanthanum-140	2.47E-03	3.91E-03	1.36E-02	pCi/m3	U
2229	669419002	4/16/2024	Lanthanum-140	-6.55E-03	6.38E-03	1.74E-02	pCi/m3	U
2229	674392004	5/14/2024	Lanthanum-140	5.10E-03	8.93E-03	3.24E-02	pCi/m3	U
2229	676203004	6/11/2024	Lanthanum-140	-3.07E-04	3.20E-03	1.03E-02	pCi/m3	U
2229	682054008	7/9/2024	Lanthanum-140	6.24E-03	6.63E-03	2.46E-02	pCi/m3	U
2229	691730004	8/5/2024	Lanthanum-140	-1.48E-02	5.48E-02	1.72E-01	pCi/m3	U
2229	691734011	8/27/2024	Lanthanum-140	4.90E-03	1.57E-02	5.42E-02	pCi/m3	U
2229	695577003	10/1/2024	Lanthanum-140	-8.34E-03	5.05E-03	1.16E-02	pCi/m3	U
2229	702719001	10/28/2024	Lanthanum-140	-2.33E-02	1.69E-02	4.40E-02	pCi/m3	U
2229	703169010	11/26/2024	Lanthanum-140	2.72E-03	3.72E-03	1.39E-02	pCi/m3	U
2229	706986008	12/25/2024	Lanthanum-140	-4.72E-03	2.92E-03	5.52E-03	pCi/m3	U
2229	657104009	1/24/2024	Lead-210	2.27E-01	1.28E-01	4.71E-01	pCi/m3	U
2229	659797003	2/21/2024	Lead-210	-2.42E-02	2.96E-02	9.15E-02	pCi/m3	U
2229	664161003	3/2/2024	Lead-210	4.46E-03	1.22E-02	2.04E-02	pCi/m3	U
2229	669419002	4/16/2024	Lead-210	-4.04E-03	3.69E-02	1.20E-01	pCi/m3	U
2229	674392004	5/14/2024	Lead-210	5.51E-02	2.61E-02	2.89E-02	pCi/m3	UI
2229	676203004	6/11/2024	Lead-210	-8.05E-02	2.55E-02	7.93E-02	pCi/m3	U
2229	682054008	7/9/2024	Lead-210	-1.73E-03	3.38E-02	1.10E-01	pCi/m3	U
2229	691730004	8/5/2024	Lead-210	-1.09E-02	1.84E-02	5.88E-02	pCi/m3	U
2229	691734011	8/27/2024	Lead-210	1.23E-02	4.15E-02	1.27E-01	pCi/m3	U
2229	695577003	10/1/2024	Lead-210	1.02E-01	3.65E-02	5.29E-02	pCi/m3	U
2229	702719001	10/28/2024	Lead-210	4.44E-02	3.79E-02	1.36E-01	pCi/m3	U
2229	703169010	11/26/2024	Lead-210	3.62E-03	2.39E-02	8.35E-02	pCi/m3	U
2229	706986008	12/25/2024	Lead-210	2.33E-01	9.36E-02	1.83E-01	pCi/m3	UI
2229	657104009	1/24/2024	Lead-212	1.18E-03	9.26E-04	1.92E-03	pCi/m3	U
2229	659797003	2/21/2024	Lead-212	3.34E-04	7.51E-04	1.67E-03	pCi/m3	U
2229	664161003	3/2/2024	Lead-212	8.81E-04	4.25E-04	5.90E-04	pCi/m3	UI
2229	669419002	4/16/2024	Lead-212	2.25E-03	8.66E-04	2.08E-03	pCi/m3	UI
2229	674392004	5/14/2024	Lead-212	1.68E-03	7.84E-04	1.87E-03	pCi/m3	U
2229	676203004	6/11/2024	Lead-212	2.22E-04	6.67E-04	1.80E-03	pCi/m3	U
2229	682054008	7/9/2024	Lead-212	1.51E-03	7.81E-04	1.70E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	691730004	8/5/2024	Lead-212	1.94E-03	7.26E-04	1.15E-03	pCi/m3	UI
2229	691734011	8/27/2024	Lead-212	9.96E-04	5.88E-04	1.23E-03	pCi/m3	U
2229	695577003	10/1/2024	Lead-212	3.66E-04	7.23E-04	1.62E-03	pCi/m3	U
2229	702719001	10/28/2024	Lead-212	3.64E-04	6.45E-04	1.13E-03	pCi/m3	U
2229	703169010	11/26/2024	Lead-212	2.08E-04	6.38E-04	1.36E-03	pCi/m3	U
2229	706986008	12/25/2024	Lead-212	1.69E-03	9.07E-04	1.70E-03	pCi/m3	U
2229	657104009	1/24/2024	Lead-214	8.76E-04	9.10E-04	2.06E-03	pCi/m3	U
2229	659797003	2/21/2024	Lead-214	-1.54E-04	6.04E-04	1.98E-03	pCi/m3	U
2229	664161003	3/2/2024	Lead-214	1.96E-04	5.20E-04	1.23E-03	pCi/m3	U
2229	669419002	4/16/2024	Lead-214	4.15E-04	7.34E-04	2.42E-03	pCi/m3	U
2229	674392004	5/14/2024	Lead-214	4.56E-04	5.53E-04	1.94E-03	pCi/m3	U
2229	676203004	6/11/2024	Lead-214	7.68E-04	5.96E-04	2.07E-03	pCi/m3	U
2229	682054008	7/9/2024	Lead-214	1.23E-03	1.31E-03	2.20E-03	pCi/m3	U
2229	691730004	8/5/2024	Lead-214	2.56E-03	1.47E-03	2.10E-03	pCi/m3	UI
2229	691734011	8/27/2024	Lead-214	8.89E-04	6.63E-04	2.34E-03	pCi/m3	U
2229	695577003	10/1/2024	Lead-214	1.94E-03	8.19E-04	2.08E-03	pCi/m3	U
2229	702719001	10/28/2024	Lead-214	-8.04E-04	6.53E-04	2.01E-03	pCi/m3	U
2229	703169010	11/26/2024	Lead-214	3.87E-04	5.31E-04	1.72E-03	pCi/m3	U
2229	706986008	12/25/2024	Lead-214	1.07E-03	6.47E-04	1.90E-03	pCi/m3	U
2229	657104009	1/24/2024	Manganese-54	-1.65E-04	2.71E-04	8.25E-04	pCi/m3	U
2229	659797003	2/21/2024	Manganese-54	1.54E-04	3.17E-04	1.06E-03	pCi/m3	U
2229	664161003	3/2/2024	Manganese-54	-1.51E-04	1.68E-04	5.15E-04	pCi/m3	U
2229	669419002	4/16/2024	Manganese-54	8.08E-04	4.30E-04	1.13E-03	pCi/m3	U
2229	674392004	5/14/2024	Manganese-54	1.37E-03	2.85E-04	9.54E-04	pCi/m3	UI
2229	676203004	6/11/2024	Manganese-54	-1.38E-04	2.50E-04	7.43E-04	pCi/m3	U
2229	682054008	7/9/2024	Manganese-54	8.56E-05	3.25E-04	1.12E-03	pCi/m3	U
2229	691730004	8/5/2024	Manganese-54	-6.95E-04	4.43E-04	1.16E-03	pCi/m3	U
2229	691734011	8/27/2024	Manganese-54	6.85E-04	2.89E-04	1.19E-03	pCi/m3	U
2229	695577003	10/1/2024	Manganese-54	6.29E-04	2.70E-04	1.06E-03	pCi/m3	U
2229	702719001	10/28/2024	Manganese-54	7.91E-04	3.42E-04	1.35E-03	pCi/m3	U
2229	703169010	11/26/2024	Manganese-54	-8.24E-05	2.36E-04	7.63E-04	pCi/m3	U
2229	706986008	12/25/2024	Manganese-54	-6.19E-04	3.00E-04	8.24E-04	pCi/m3	U
2229	657104009	1/24/2024	Molybdenum-99	-1.40E+01	1.74E+01	0.00E+00	pCi/m3	U
2229	659797003	2/21/2024	Molybdenum-99	4.88E-01	5.57E+00	0.00E+00	pCi/m3	UI
2229	664161003	3/2/2024	Molybdenum-99	5.06E+02	9.39E+02	0.00E+00	pCi/m3	UI
2229	669419002	4/16/2024	Molybdenum-99	8.52E+02	1.13E+03	0.00E+00	pCi/m3	UI
2229	674392004	5/14/2024	Molybdenum-99	-1.19E+04	8.39E+03	0.00E+00	pCi/m3	U
2229	676203004	6/11/2024	Molybdenum-99	1.15E+02	1.55E+02	0.00E+00	pCi/m3	UI
2229	682054008	7/9/2024	Molybdenum-99	1.30E+03	1.26E+03	0.00E+00	pCi/m3	UI
2229	691730004	8/5/2024	Molybdenum-99	6.43E+06	1.06E+07	0.00E+00	pCi/m3	UI
2229	691734011	8/27/2024	Molybdenum-99	3.82E+04	4.45E+04	0.00E+00	pCi/m3	UI
2229	695577003	10/1/2024	Molybdenum-99	-8.80E+02	7.28E+02	0.00E+00	pCi/m3	U
2229	702719001	10/28/2024	Molybdenum-99	-2.22E+05	2.21E+05	0.00E+00	pCi/m3	U
2229	703169010	11/26/2024	Molybdenum-99	2.41E+02	3.08E+02	0.00E+00	pCi/m3	UI
2229	706986008	12/25/2024	Molybdenum-99	4.70E+01	2.95E+02	0.00E+00	pCi/m3	UI
2229	657104009	1/24/2024	Niobium-95	4.22E-04	3.69E-04	1.24E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	659797003	2/21/2024	Niobium-95	-2.35E-05	3.00E-04	9.56E-04	pCi/m3	U
2229	664161003	3/2/2024	Niobium-95	2.62E-04	1.97E-04	7.49E-04	pCi/m3	U
2229	669419002	4/16/2024	Niobium-95	-2.54E-04	4.73E-04	1.52E-03	pCi/m3	U
2229	674392004	5/14/2024	Niobium-95	-5.59E-04	6.24E-04	1.69E-03	pCi/m3	U
2229	676203004	6/11/2024	Niobium-95	4.88E-04	5.19E-04	1.65E-03	pCi/m3	U
2229	682054008	7/9/2024	Niobium-95	-7.24E-05	5.07E-04	1.70E-03	pCi/m3	U
2229	691730004	8/5/2024	Niobium-95	6.54E-04	9.58E-04	3.31E-03	pCi/m3	U
2229	691734011	8/27/2024	Niobium-95	-1.06E-05	5.76E-04	1.94E-03	pCi/m3	U
2229	695577003	10/1/2024	Niobium-95	2.01E-04	4.72E-04	1.58E-03	pCi/m3	U
2229	702719001	10/28/2024	Niobium-95	-2.05E-04	7.25E-04	2.22E-03	pCi/m3	U
2229	703169010	11/26/2024	Niobium-95	-1.09E-04	3.74E-04	1.23E-03	pCi/m3	U
2229	706986008	12/25/2024	Niobium-95	-6.52E-04	3.82E-04	1.08E-03	pCi/m3	U
2229	657104009	1/24/2024	Potassium-40	1.95E-02	7.15E-03	1.08E-02	pCi/m3	UI
2229	659797003	2/21/2024	Potassium-40	1.73E-02	6.19E-03	8.39E-03	pCi/m3	UI
2229	664161003	3/2/2024	Potassium-40	4.21E-03	3.04E-03	3.98E-03	pCi/m3	UI
2229	669419002	4/16/2024	Potassium-40	2.60E-02	6.87E-03	1.25E-02	pCi/m3	
2229	674392004	5/14/2024	Potassium-40	2.53E-03	7.04E-03	1.50E-02	pCi/m3	U
2229	676203004	6/11/2024	Potassium-40	1.56E-02	6.01E-03	8.83E-03	pCi/m3	UI
2229	682054008	7/9/2024	Potassium-40	-1.57E-03	5.66E-03	2.11E-02	pCi/m3	U
2229	691730004	8/5/2024	Potassium-40	3.78E-03	8.90E-03	1.30E-02	pCi/m3	U
2229	691734011	8/27/2024	Potassium-40	5.93E-04	5.77E-03	2.03E-02	pCi/m3	U
2229	695577003	10/1/2024	Potassium-40	2.99E-03	5.21E-03	9.44E-03	pCi/m3	U
2229	702719001	10/28/2024	Potassium-40	1.75E-03	6.65E-03	2.32E-02	pCi/m3	U
2229	703169010	11/26/2024	Potassium-40	1.76E-02	4.67E-03	6.15E-03	pCi/m3	
2229	706986008	12/25/2024	Potassium-40	4.75E-03	5.30E-03	6.33E-03	pCi/m3	U
2229	657104009	1/24/2024	Radium-226	8.76E-04	9.10E-04	2.06E-03	pCi/m3	U
2229	659797003	2/21/2024	Radium-226	-1.54E-04	6.04E-04	1.98E-03	pCi/m3	U
2229	664161003	3/2/2024	Radium-226	1.96E-04	5.20E-04	1.23E-03	pCi/m3	U
2229	669419002	4/16/2024	Radium-226	4.15E-04	7.34E-04	2.42E-03	pCi/m3	U
2229	674392004	5/14/2024	Radium-226	4.56E-04	5.53E-04	1.94E-03	pCi/m3	U
2229	676203004	6/11/2024	Radium-226	7.68E-04	5.96E-04	2.07E-03	pCi/m3	U
2229	682054008	7/9/2024	Radium-226	1.23E-03	1.31E-03	2.20E-03	pCi/m3	U
2229	691730004	8/5/2024	Radium-226	2.56E-03	1.47E-03	2.10E-03	pCi/m3	UI
2229	691734011	8/27/2024	Radium-226	8.89E-04	6.63E-04	2.34E-03	pCi/m3	U
2229	695577003	10/1/2024	Radium-226	1.94E-03	8.19E-04	2.08E-03	pCi/m3	U
2229	702719001	10/28/2024	Radium-226	-8.04E-04	6.53E-04	2.01E-03	pCi/m3	U
2229	703169010	11/26/2024	Radium-226	3.87E-04	5.31E-04	1.72E-03	pCi/m3	U
2229	706986008	12/25/2024	Radium-226	1.07E-03	6.47E-04	1.90E-03	pCi/m3	U
2229	657104009	1/24/2024	Radium-228	-3.16E-03	1.56E-03	4.04E-03	pCi/m3	U
2229	659797003	2/21/2024	Radium-228	1.30E-03	1.30E-03	4.65E-03	pCi/m3	U
2229	664161003	3/2/2024	Radium-228	-4.22E-05	7.37E-04	2.25E-03	pCi/m3	U
2229	669419002	4/16/2024	Radium-228	5.76E-04	1.84E-03	5.56E-03	pCi/m3	U
2229	674392004	5/14/2024	Radium-228	3.16E-03	1.69E-03	6.39E-03	pCi/m3	U
2229	676203004	6/11/2024	Radium-228	7.20E-05	2.10E-03	5.02E-03	pCi/m3	U
2229	682054008	7/9/2024	Radium-228	1.62E-03	1.57E-03	5.14E-03	pCi/m3	U
2229	691730004	8/5/2024	Radium-228	1.87E-03	1.50E-03	5.48E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	691734011	8/27/2024	Radium-228	6.76E-03	2.16E-03	6.99E-03	pCi/m3	U
2229	695577003	10/1/2024	Radium-228	1.57E-03	1.65E-03	4.46E-03	pCi/m3	U
2229	702719001	10/28/2024	Radium-228	7.78E-03	2.15E-03	6.51E-03	pCi/m3	UI
2229	703169010	11/26/2024	Radium-228	2.09E-04	1.12E-03	3.85E-03	pCi/m3	U
2229	706986008	12/25/2024	Radium-228	-7.09E-04	1.28E-03	4.17E-03	pCi/m3	U
2229	657104009	1/24/2024	Ruthenium-103	-9.96E-05	4.65E-04	1.33E-03	pCi/m3	U
2229	659797003	2/21/2024	Ruthenium-103	2.75E-04	3.73E-04	1.30E-03	pCi/m3	U
2229	664161003	3/2/2024	Ruthenium-103	1.69E-04	3.63E-04	1.08E-03	pCi/m3	U
2229	669419002	4/16/2024	Ruthenium-103	-1.10E-03	5.84E-04	1.54E-03	pCi/m3	U
2229	674392004	5/14/2024	Ruthenium-103	5.73E-05	7.87E-04	2.59E-03	pCi/m3	U
2229	676203004	6/11/2024	Ruthenium-103	3.80E-04	4.41E-04	1.57E-03	pCi/m3	U
2229	682054008	7/9/2024	Ruthenium-103	-1.37E-04	5.59E-04	1.80E-03	pCi/m3	U
2229	691730004	8/5/2024	Ruthenium-103	-5.04E-04	1.43E-03	4.52E-03	pCi/m3	U
2229	691734011	8/27/2024	Ruthenium-103	2.90E-04	8.55E-04	2.88E-03	pCi/m3	U
2229	695577003	10/1/2024	Ruthenium-103	-1.98E-04	4.40E-04	1.41E-03	pCi/m3	U
2229	702719001	10/28/2024	Ruthenium-103	4.12E-04	9.45E-04	3.19E-03	pCi/m3	U
2229	703169010	11/26/2024	Ruthenium-103	-2.71E-04	4.29E-04	1.32E-03	pCi/m3	U
2229	706986008	12/25/2024	Ruthenium-103	-1.81E-04	5.23E-04	1.63E-03	pCi/m3	U
2229	657104009	1/24/2024	Ruthenium-106	9.85E-04	2.31E-03	8.03E-03	pCi/m3	U
2229	659797003	2/21/2024	Ruthenium-106	2.91E-04	2.49E-03	8.19E-03	pCi/m3	U
2229	664161003	3/2/2024	Ruthenium-106	2.63E-04	1.51E-03	5.18E-03	pCi/m3	U
2229	669419002	4/16/2024	Ruthenium-106	-3.40E-03	3.02E-03	8.59E-03	pCi/m3	U
2229	674392004	5/14/2024	Ruthenium-106	-3.20E-03	3.39E-03	8.80E-03	pCi/m3	U
2229	676203004	6/11/2024	Ruthenium-106	-1.15E-03	2.36E-03	7.38E-03	pCi/m3	U
2229	682054008	7/9/2024	Ruthenium-106	-3.39E-03	2.67E-03	7.63E-03	pCi/m3	U
2229	691730004	8/5/2024	Ruthenium-106	-2.47E-03	3.52E-03	1.09E-02	pCi/m3	U
2229	691734011	8/27/2024	Ruthenium-106	2.61E-03	3.66E-03	1.13E-02	pCi/m3	U
2229	695577003	10/1/2024	Ruthenium-106	-2.63E-03	2.37E-03	7.02E-03	pCi/m3	U
2229	702719001	10/28/2024	Ruthenium-106	-2.14E-03	3.10E-03	9.45E-03	pCi/m3	U
2229	703169010	11/26/2024	Ruthenium-106	-2.11E-03	2.19E-03	6.33E-03	pCi/m3	U
2229	706986008	12/25/2024	Ruthenium-106	3.75E-03	2.23E-03	8.38E-03	pCi/m3	U
2229	657104009	1/24/2024	Selenium-75	5.78E-04	3.26E-04	1.20E-03	pCi/m3	U
2229	659797003	2/21/2024	Selenium-75	-5.85E-05	3.23E-04	1.10E-03	pCi/m3	U
2229	664161003	3/2/2024	Selenium-75	-3.46E-04	2.16E-04	6.03E-04	pCi/m3	U
2229	669419002	4/16/2024	Selenium-75	-4.13E-04	4.67E-04	1.36E-03	pCi/m3	U
2229	674392004	5/14/2024	Selenium-75	3.73E-04	4.05E-04	1.44E-03	pCi/m3	U
2229	676203004	6/11/2024	Selenium-75	1.00E-03	7.05E-04	1.03E-03	pCi/m3	U
2229	682054008	7/9/2024	Selenium-75	2.24E-04	4.54E-04	1.37E-03	pCi/m3	U
2229	691730004	8/5/2024	Selenium-75	2.80E-04	5.38E-04	1.77E-03	pCi/m3	U
2229	691734011	8/27/2024	Selenium-75	4.48E-04	4.56E-04	1.53E-03	pCi/m3	U
2229	695577003	10/1/2024	Selenium-75	-3.29E-04	3.38E-04	9.79E-04	pCi/m3	U
2229	702719001	10/28/2024	Selenium-75	-6.32E-04	4.47E-04	1.36E-03	pCi/m3	U
2229	703169010	11/26/2024	Selenium-75	2.23E-04	2.89E-04	1.04E-03	pCi/m3	U
2229	706986008	12/25/2024	Selenium-75	3.41E-04	3.30E-04	1.14E-03	pCi/m3	U
2229	657104009	1/24/2024	Silver-108m	1.44E-05	2.08E-04	6.77E-04	pCi/m3	U
2229	659797003	2/21/2024	Silver-108m	4.17E-05	1.88E-04	6.39E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	664161003	3/2/2024	Silver-108m	-7.30E-06	9.80E-05	3.13E-04	pCi/m3	U
2229	669419002	4/16/2024	Silver-108m	-7.12E-05	2.15E-04	6.92E-04	pCi/m3	U
2229	674392004	5/14/2024	Silver-108m	1.80E-05	2.54E-04	8.43E-04	pCi/m3	U
2229	676203004	6/11/2024	Silver-108m	1.58E-05	1.93E-04	6.53E-04	pCi/m3	U
2229	682054008	7/9/2024	Silver-108m	-4.15E-05	2.30E-04	7.55E-04	pCi/m3	U
2229	691730004	8/5/2024	Silver-108m	2.35E-04	2.36E-04	8.61E-04	pCi/m3	U
2229	691734011	8/27/2024	Silver-108m	-1.27E-04	2.35E-04	7.44E-04	pCi/m3	U
2229	695577003	10/1/2024	Silver-108m	-2.39E-04	1.86E-04	5.66E-04	pCi/m3	U
2229	702719001	10/28/2024	Silver-108m	-3.68E-04	2.64E-04	8.03E-04	pCi/m3	U
2229	703169010	11/26/2024	Silver-108m	8.52E-05	1.58E-04	5.47E-04	pCi/m3	U
2229	706986008	12/25/2024	Silver-108m	-4.26E-05	2.34E-04	6.45E-04	pCi/m3	U
2229	657104009	1/24/2024	Silver-110m	2.14E-04	3.62E-04	1.26E-03	pCi/m3	U
2229	659797003	2/21/2024	Silver-110m	-4.78E-04	3.96E-04	1.08E-03	pCi/m3	U
2229	664161003	3/2/2024	Silver-110m	3.81E-04	2.45E-04	7.63E-04	pCi/m3	U
2229	669419002	4/16/2024	Silver-110m	1.86E-04	4.02E-04	1.43E-03	pCi/m3	U
2229	674392004	5/14/2024	Silver-110m	4.60E-05	5.00E-04	1.69E-03	pCi/m3	U
2229	676203004	6/11/2024	Silver-110m	2.50E-04	4.29E-04	1.46E-03	pCi/m3	U
2229	682054008	7/9/2024	Silver-110m	4.21E-04	4.58E-04	1.65E-03	pCi/m3	U
2229	691730004	8/5/2024	Silver-110m	-2.66E-04	6.89E-04	1.84E-03	pCi/m3	U
2229	691734011	8/27/2024	Silver-110m	5.34E-04	4.84E-04	1.80E-03	pCi/m3	U
2229	695577003	10/1/2024	Silver-110m	-4.99E-05	3.44E-04	1.08E-03	pCi/m3	U
2229	702719001	10/28/2024	Silver-110m	2.94E-04	4.72E-04	1.67E-03	pCi/m3	U
2229	703169010	11/26/2024	Silver-110m	-5.97E-04	4.34E-04	1.15E-03	pCi/m3	U
2229	706986008	12/25/2024	Silver-110m	-3.73E-04	3.68E-04	1.10E-03	pCi/m3	U
2229	657104009	1/24/2024	Tellurium-132	-2.68E-01	4.61E-01	0.00E+00	pCi/m3	U
2229	659797003	2/21/2024	Tellurium-132	2.53E-01	1.72E-01	5.79E-01	pCi/m3	U
2229	664161003	3/2/2024	Tellurium-132	1.04E+01	1.20E+01	0.00E+00	pCi/m3	UI
2229	669419002	4/16/2024	Tellurium-132	-4.43E+00	1.59E+01	0.00E+00	pCi/m3	U
2229	674392004	5/14/2024	Tellurium-132	-3.26E+01	1.06E+02	0.00E+00	pCi/m3	U
2229	676203004	6/11/2024	Tellurium-132	-3.34E+00	2.65E+00	0.00E+00	pCi/m3	U
2229	682054008	7/9/2024	Tellurium-132	-8.60E+00	1.76E+01	0.00E+00	pCi/m3	U
2229	691730004	8/5/2024	Tellurium-132	1.81E+04	3.94E+04	0.00E+00	pCi/m3	UI
2229	691734011	8/27/2024	Tellurium-132	1.34E+02	3.05E+02	0.00E+00	pCi/m3	UI
2229	695577003	10/1/2024	Tellurium-132	4.75E+00	1.19E+01	0.00E+00	pCi/m3	UI
2229	702719001	10/28/2024	Tellurium-132	1.03E+02	1.62E+03	0.00E+00	pCi/m3	UI
2229	703169010	11/26/2024	Tellurium-132	1.54E+00	5.46E+00	0.00E+00	pCi/m3	UI
2229	706986008	12/25/2024	Tellurium-132	6.95E+00	6.71E+00	0.00E+00	pCi/m3	UI
2229	657104009	1/24/2024	Thallium-208	-4.23E-05	3.06E-04	9.20E-04	pCi/m3	U
2229	659797003	2/21/2024	Thallium-208	2.20E-04	3.53E-04	1.16E-03	pCi/m3	U
2229	664161003	3/2/2024	Thallium-208	-9.69E-05	2.06E-04	6.54E-04	pCi/m3	U
2229	669419002	4/16/2024	Thallium-208	2.08E-04	5.19E-04	9.84E-04	pCi/m3	U
2229	674392004	5/14/2024	Thallium-208	-3.43E-04	3.60E-04	1.09E-03	pCi/m3	U
2229	676203004	6/11/2024	Thallium-208	4.60E-04	4.97E-04	7.58E-04	pCi/m3	U
2229	682054008	7/9/2024	Thallium-208	-3.93E-04	3.84E-04	1.21E-03	pCi/m3	U
2229	691730004	8/5/2024	Thallium-208	4.10E-04	4.78E-04	7.29E-04	pCi/m3	U
2229	691734011	8/27/2024	Thallium-208	6.34E-04	3.21E-04	1.20E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	695577003	10/1/2024	Thallium-208	3.50E-05	3.48E-04	7.54E-04	pCi/m3	U
2229	702719001	10/28/2024	Thallium-208	8.00E-04	5.31E-04	8.11E-04	pCi/m3	U
2229	703169010	11/26/2024	Thallium-208	2.54E-05	2.87E-04	9.48E-04	pCi/m3	U
2229	706986008	12/25/2024	Thallium-208	1.74E-04	4.84E-04	8.54E-04	pCi/m3	U
2229	657104009	1/24/2024	Thorium-228	1.18E-03	9.26E-04	1.92E-03	pCi/m3	U
2229	659797003	2/21/2024	Thorium-228	3.34E-04	7.51E-04	1.67E-03	pCi/m3	U
2229	664161003	3/2/2024	Thorium-228	8.81E-04	4.25E-04	5.90E-04	pCi/m3	UI
2229	669419002	4/16/2024	Thorium-228	2.25E-03	8.66E-04	2.08E-03	pCi/m3	UI
2229	674392004	5/14/2024	Thorium-228	1.68E-03	7.84E-04	1.87E-03	pCi/m3	U
2229	676203004	6/11/2024	Thorium-228	2.22E-04	6.67E-04	1.80E-03	pCi/m3	U
2229	682054008	7/9/2024	Thorium-228	1.51E-03	7.81E-04	1.70E-03	pCi/m3	U
2229	691730004	8/5/2024	Thorium-228	1.94E-03	7.26E-04	1.15E-03	pCi/m3	UI
2229	691734011	8/27/2024	Thorium-228	9.96E-04	5.88E-04	1.23E-03	pCi/m3	U
2229	695577003	10/1/2024	Thorium-228	3.66E-04	7.23E-04	1.62E-03	pCi/m3	U
2229	702719001	10/28/2024	Thorium-228	3.64E-04	6.45E-04	1.13E-03	pCi/m3	U
2229	703169010	11/26/2024	Thorium-228	2.08E-04	6.38E-04	1.36E-03	pCi/m3	U
2229	706986008	12/25/2024	Thorium-228	1.69E-03	9.07E-04	1.70E-03	pCi/m3	U
2229	657104009	1/24/2024	Thorium-230	8.76E-04	9.10E-04	2.06E-03	pCi/m3	U
2229	659797003	2/21/2024	Thorium-230	-1.54E-04	6.04E-04	1.98E-03	pCi/m3	U
2229	664161003	3/2/2024	Thorium-230	1.96E-04	5.20E-04	1.23E-03	pCi/m3	U
2229	669419002	4/16/2024	Thorium-230	4.15E-04	7.34E-04	2.42E-03	pCi/m3	U
2229	674392004	5/14/2024	Thorium-230	4.56E-04	5.53E-04	1.94E-03	pCi/m3	U
2229	676203004	6/11/2024	Thorium-230	7.68E-04	5.96E-04	2.07E-03	pCi/m3	U
2229	682054008	7/9/2024	Thorium-230	1.23E-03	1.31E-03	2.20E-03	pCi/m3	U
2229	691730004	8/5/2024	Thorium-230	2.56E-03	1.47E-03	2.10E-03	pCi/m3	UI
2229	691734011	8/27/2024	Thorium-230	8.89E-04	6.63E-04	2.34E-03	pCi/m3	U
2229	695577003	10/1/2024	Thorium-230	1.94E-03	8.19E-04	2.08E-03	pCi/m3	U
2229	702719001	10/28/2024	Thorium-230	-8.04E-04	6.53E-04	2.01E-03	pCi/m3	U
2229	703169010	11/26/2024	Thorium-230	3.87E-04	5.31E-04	1.72E-03	pCi/m3	U
2229	706986008	12/25/2024	Thorium-230	1.07E-03	6.47E-04	1.90E-03	pCi/m3	U
2229	657104009	1/24/2024	Thorium-232	-3.16E-03	1.56E-03	4.04E-03	pCi/m3	U
2229	659797003	2/21/2024	Thorium-232	1.30E-03	1.30E-03	4.65E-03	pCi/m3	U
2229	664161003	3/2/2024	Thorium-232	-4.22E-05	7.37E-04	2.25E-03	pCi/m3	U
2229	669419002	4/16/2024	Thorium-232	5.76E-04	1.84E-03	5.56E-03	pCi/m3	U
2229	674392004	5/14/2024	Thorium-232	3.16E-03	1.69E-03	6.39E-03	pCi/m3	U
2229	676203004	6/11/2024	Thorium-232	7.20E-05	2.10E-03	5.02E-03	pCi/m3	U
2229	682054008	7/9/2024	Thorium-232	1.62E-03	1.57E-03	5.14E-03	pCi/m3	U
2229	691730004	8/5/2024	Thorium-232	1.87E-03	1.50E-03	5.48E-03	pCi/m3	U
2229	691734011	8/27/2024	Thorium-232	6.76E-03	2.16E-03	6.99E-03	pCi/m3	U
2229	695577003	10/1/2024	Thorium-232	1.57E-03	1.65E-03	4.46E-03	pCi/m3	U
2229	702719001	10/28/2024	Thorium-232	7.78E-03	2.15E-03	6.51E-03	pCi/m3	UI
2229	703169010	11/26/2024	Thorium-232	2.09E-04	1.12E-03	3.85E-03	pCi/m3	U
2229	706986008	12/25/2024	Thorium-232	-7.09E-04	1.28E-03	4.17E-03	pCi/m3	U
2229	657104009	1/24/2024	Thorium-234	7.63E-03	1.36E-02	4.70E-02	pCi/m3	U
2229	659797003	2/21/2024	Thorium-234	2.16E-02	1.41E-02	2.25E-02	pCi/m3	U
2229	664161003	3/2/2024	Thorium-234	3.83E-03	5.45E-03	8.93E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	669419002	4/16/2024	Thorium-234	-5.12E-03	1.01E-02	3.33E-02	pCi/m3	U
2229	674392004	5/14/2024	Thorium-234	-8.35E-03	5.65E-03	1.94E-02	pCi/m3	U
2229	676203004	6/11/2024	Thorium-234	2.03E-02	1.55E-02	3.09E-02	pCi/m3	U
2229	682054008	7/9/2024	Thorium-234	2.44E-03	1.49E-02	2.57E-02	pCi/m3	U
2229	691730004	8/5/2024	Thorium-234	8.58E-03	9.38E-03	2.56E-02	pCi/m3	U
2229	691734011	8/27/2024	Thorium-234	4.97E-03	1.58E-02	2.84E-02	pCi/m3	U
2229	695577003	10/1/2024	Thorium-234	-1.52E-02	7.93E-03	2.60E-02	pCi/m3	U
2229	702719001	10/28/2024	Thorium-234	-2.02E-02	1.23E-02	4.29E-02	pCi/m3	U
2229	703169010	11/26/2024	Thorium-234	-4.72E-03	6.67E-03	2.11E-02	pCi/m3	U
2229	706986008	12/25/2024	Thorium-234	2.35E-02	2.31E-02	4.80E-02	pCi/m3	U
2229	657104009	1/24/2024	Uranium-234	8.76E-04	9.10E-04	2.06E-03	pCi/m3	U
2229	659797003	2/21/2024	Uranium-234	-1.54E-04	6.04E-04	1.98E-03	pCi/m3	U
2229	664161003	3/2/2024	Uranium-234	1.96E-04	5.20E-04	1.23E-03	pCi/m3	U
2229	669419002	4/16/2024	Uranium-234	4.15E-04	7.34E-04	2.42E-03	pCi/m3	U
2229	674392004	5/14/2024	Uranium-234	4.56E-04	5.53E-04	1.94E-03	pCi/m3	U
2229	676203004	6/11/2024	Uranium-234	7.68E-04	5.96E-04	2.07E-03	pCi/m3	U
2229	682054008	7/9/2024	Uranium-234	1.23E-03	1.31E-03	2.20E-03	pCi/m3	U
2229	691730004	8/5/2024	Uranium-234	2.56E-03	1.47E-03	2.10E-03	pCi/m3	UI
2229	691734011	8/27/2024	Uranium-234	8.89E-04	6.63E-04	2.34E-03	pCi/m3	U
2229	695577003	10/1/2024	Uranium-234	1.94E-03	8.19E-04	2.08E-03	pCi/m3	U
2229	702719001	10/28/2024	Uranium-234	-8.04E-04	6.53E-04	2.01E-03	pCi/m3	U
2229	703169010	11/26/2024	Uranium-234	3.87E-04	5.31E-04	1.72E-03	pCi/m3	U
2229	706986008	12/25/2024	Uranium-234	1.07E-03	6.47E-04	1.90E-03	pCi/m3	U
2229	657104009	1/24/2024	Zinc-65	2.51E-04	7.49E-04	2.31E-03	pCi/m3	U
2229	659797003	2/21/2024	Zinc-65	3.95E-05	5.44E-04	1.85E-03	pCi/m3	U
2229	664161003	3/2/2024	Zinc-65	5.90E-04	4.01E-04	1.52E-03	pCi/m3	U
2229	669419002	4/16/2024	Zinc-65	-2.74E-04	1.02E-03	3.26E-03	pCi/m3	U
2229	674392004	5/14/2024	Zinc-65	7.79E-04	8.88E-04	3.15E-03	pCi/m3	U
2229	676203004	6/11/2024	Zinc-65	-7.20E-04	7.04E-04	2.11E-03	pCi/m3	U
2229	682054008	7/9/2024	Zinc-65	-1.15E-03	7.47E-04	2.01E-03	pCi/m3	U
2229	691730004	8/5/2024	Zinc-65	1.83E-04	8.55E-04	2.98E-03	pCi/m3	U
2229	691734011	8/27/2024	Zinc-65	-8.25E-04	1.05E-03	3.12E-03	pCi/m3	U
2229	695577003	10/1/2024	Zinc-65	5.89E-05	6.44E-04	2.19E-03	pCi/m3	U
2229	702719001	10/28/2024	Zinc-65	1.45E-03	8.19E-04	2.66E-03	pCi/m3	U
2229	703169010	11/26/2024	Zinc-65	-1.39E-03	7.56E-04	1.96E-03	pCi/m3	U
2229	706986008	12/25/2024	Zinc-65	-3.40E-04	7.09E-04	2.23E-03	pCi/m3	U
2229	657104009	1/24/2024	Zirconium-95	1.91E-05	7.08E-04	2.34E-03	pCi/m3	U
2229	659797003	2/21/2024	Zirconium-95	-9.45E-06	5.97E-04	1.92E-03	pCi/m3	U
2229	664161003	3/2/2024	Zirconium-95	-2.38E-04	4.08E-04	1.29E-03	pCi/m3	U
2229	669419002	4/16/2024	Zirconium-95	-1.96E-04	9.18E-04	3.06E-03	pCi/m3	U
2229	674392004	5/14/2024	Zirconium-95	1.19E-04	8.95E-04	3.07E-03	pCi/m3	U
2229	676203004	6/11/2024	Zirconium-95	-4.52E-04	7.18E-04	2.16E-03	pCi/m3	U
2229	682054008	7/9/2024	Zirconium-95	-1.18E-03	7.65E-04	2.24E-03	pCi/m3	U
2229	691730004	8/5/2024	Zirconium-95	-3.55E-03	1.39E-03	2.80E-03	pCi/m3	U
2229	691734011	8/27/2024	Zirconium-95	1.07E-03	1.11E-03	4.06E-03	pCi/m3	U
2229	695577003	10/1/2024	Zirconium-95	-8.46E-04	6.92E-04	1.92E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	702719001	10/28/2024	Zirconium-95	6.30E-04	1.21E-03	4.01E-03	pCi/m3	U
2229	703169010	11/26/2024	Zirconium-95	8.88E-05	5.86E-04	2.01E-03	pCi/m3	U
2229	706986008	12/25/2024	Zirconium-95	-4.09E-05	8.02E-04	2.67E-03	pCi/m3	U
2233	657104010	1/24/2024	Actinium-228	-8.02E-04	1.34E-03	4.23E-03	pCi/m3	U
2233	659797002	2/20/2024	Actinium-228	6.50E-05	1.13E-03	3.62E-03	pCi/m3	U
2233	664161002	3/19/2024	Actinium-228	1.41E-03	1.25E-03	3.41E-03	pCi/m3	U
2233	669419001	4/16/2024	Actinium-228	1.01E-03	9.31E-04	3.24E-03	pCi/m3	U
2233	674392003	5/13/2024	Actinium-228	1.46E-03	2.06E-03	3.93E-03	pCi/m3	U
2233	676203003	6/11/2024	Actinium-228	4.40E-04	1.27E-03	4.24E-03	pCi/m3	U
2233	682054007	7/8/2024	Actinium-228	-1.60E-03	1.49E-03	4.20E-03	pCi/m3	U
2233	691730008	8/6/2024	Actinium-228	7.39E-04	1.60E-03	5.66E-03	pCi/m3	U
2233	691734005	8/27/2024	Actinium-228	9.71E-04	2.09E-03	4.97E-03	pCi/m3	U
2233	695577006	10/1/2024	Actinium-228	-1.44E-03	1.19E-03	3.43E-03	pCi/m3	U
2233	702719011	10/28/2024	Actinium-228	-1.35E-04	1.35E-03	4.17E-03	pCi/m3	U
2233	703169001	11/25/2024	Actinium-228	1.17E-03	4.36E-03	1.07E-02	pCi/m3	U
2233	706986001	12/24/2024	Actinium-228	-1.55E-03	1.44E-03	4.49E-03	pCi/m3	U
2233	657104010	1/24/2024	Americium-241	-5.50E-05	6.26E-04	2.09E-03	pCi/m3	U
2233	659797002	2/20/2024	Americium-241	5.24E-04	6.74E-04	2.16E-03	pCi/m3	U
2233	664161002	3/19/2024	Americium-241	1.04E-03	6.24E-04	2.26E-03	pCi/m3	U
2233	669419001	4/16/2024	Americium-241	1.24E-03	7.12E-04	2.72E-03	pCi/m3	U
2233	674392003	5/13/2024	Americium-241	9.33E-04	4.86E-04	1.65E-03	pCi/m3	U
2233	676203003	6/11/2024	Americium-241	-3.95E-04	6.58E-04	2.14E-03	pCi/m3	U
2233	682054007	7/8/2024	Americium-241	6.87E-04	8.27E-04	2.79E-03	pCi/m3	U
2233	691730008	8/6/2024	Americium-241	-2.40E-04	2.72E-04	8.96E-04	pCi/m3	U
2233	691734005	8/27/2024	Americium-241	-1.17E-03	9.10E-04	2.69E-03	pCi/m3	U
2233	695577006	10/1/2024	Americium-241	-3.30E-04	5.09E-04	1.47E-03	pCi/m3	U
2233	702719011	10/28/2024	Americium-241	8.97E-05	1.89E-04	6.24E-04	pCi/m3	U
2233	703169001	11/25/2024	Americium-241	-6.50E-04	3.79E-04	1.21E-03	pCi/m3	U
2233	706986001	12/24/2024	Americium-241	-1.27E-03	1.04E-03	3.03E-03	pCi/m3	U
2233	657104010	1/24/2024	Antimony-124	2.57E-04	5.98E-04	2.14E-03	pCi/m3	U
2233	659797002	2/20/2024	Antimony-124	1.84E-04	7.24E-04	2.45E-03	pCi/m3	U
2233	664161002	3/19/2024	Antimony-124	-8.64E-05	8.00E-04	2.58E-03	pCi/m3	U
2233	669419001	4/16/2024	Antimony-124	2.49E-04	1.14E-03	3.85E-03	pCi/m3	U
2233	674392003	5/13/2024	Antimony-124	8.99E-04	1.02E-03	3.77E-03	pCi/m3	U
2233	676203003	6/11/2024	Antimony-124	2.83E-04	9.14E-04	3.15E-03	pCi/m3	U
2233	682054007	7/8/2024	Antimony-124	3.32E-04	1.28E-03	4.43E-03	pCi/m3	U
2233	691730008	8/6/2024	Antimony-124	2.53E-03	2.50E-03	9.51E-03	pCi/m3	U
2233	691734005	8/27/2024	Antimony-124	-1.09E-03	1.53E-03	4.33E-03	pCi/m3	U
2233	695577006	10/1/2024	Antimony-124	-1.69E-03	1.32E-03	2.36E-03	pCi/m3	U
2233	702719011	10/28/2024	Antimony-124	-1.52E-03	1.20E-03	2.72E-03	pCi/m3	U
2233	703169001	11/25/2024	Antimony-124	2.72E-03	2.33E-03	8.96E-03	pCi/m3	U
2233	706986001	12/24/2024	Antimony-124	1.58E-03	9.85E-04	4.16E-03	pCi/m3	U
2233	657104010	1/24/2024	Antimony-125	-3.39E-04	6.03E-04	1.97E-03	pCi/m3	U
2233	659797002	2/20/2024	Antimony-125	4.29E-04	4.86E-04	1.72E-03	pCi/m3	U
2233	664161002	3/19/2024	Antimony-125	4.52E-04	5.35E-04	1.90E-03	pCi/m3	U
2233	669419001	4/16/2024	Antimony-125	-1.99E-04	4.94E-04	1.59E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	674392003	5/13/2024	Antimony-125	-9.22E-05	4.79E-04	1.57E-03	pCi/m3	U
2233	676203003	6/11/2024	Antimony-125	-1.28E-04	5.41E-04	1.80E-03	pCi/m3	U
2233	682054007	7/8/2024	Antimony-125	-7.09E-04	7.18E-04	1.91E-03	pCi/m3	U
2233	691730008	8/6/2024	Antimony-125	-5.53E-04	8.50E-04	2.72E-03	pCi/m3	U
2233	691734005	8/27/2024	Antimony-125	1.89E-04	6.65E-04	2.26E-03	pCi/m3	U
2233	695577006	10/1/2024	Antimony-125	-5.48E-04	6.64E-04	2.08E-03	pCi/m3	U
2233	702719011	10/28/2024	Antimony-125	-4.01E-04	5.17E-04	1.65E-03	pCi/m3	U
2233	703169001	11/25/2024	Antimony-125	-1.21E-04	1.34E-03	4.29E-03	pCi/m3	U
2233	706986001	12/24/2024	Antimony-125	-5.62E-04	6.41E-04	1.95E-03	pCi/m3	U
2233	657104010	1/24/2024	Barium-140	-2.34E-04	5.59E-03	1.86E-02	pCi/m3	U
2233	659797002	2/20/2024	Barium-140	-3.77E-03	3.43E-03	1.01E-02	pCi/m3	U
2233	664161002	3/19/2024	Barium-140	1.75E-03	5.37E-03	1.83E-02	pCi/m3	U
2233	669419001	4/16/2024	Barium-140	-6.86E-03	1.15E-02	3.31E-02	pCi/m3	U
2233	674392003	5/13/2024	Barium-140	-1.08E-02	1.71E-02	5.26E-02	pCi/m3	U
2233	676203003	6/11/2024	Barium-140	1.48E-02	8.35E-03	3.11E-02	pCi/m3	U
2233	682054007	7/8/2024	Barium-140	1.80E-02	1.36E-02	5.04E-02	pCi/m3	U
2233	691730008	8/6/2024	Barium-140	9.46E-02	1.14E-01	4.06E-01	pCi/m3	U
2233	691734005	8/27/2024	Barium-140	1.66E-03	3.06E-02	9.98E-02	pCi/m3	U
2233	695577006	10/1/2024	Barium-140	1.15E-02	1.22E-02	4.30E-02	pCi/m3	U
2233	702719011	10/28/2024	Barium-140	7.23E-03	4.05E-02	1.36E-01	pCi/m3	U
2233	703169001	11/25/2024	Barium-140	2.78E-02	2.14E-02	7.52E-02	pCi/m3	U
2233	706986001	12/24/2024	Barium-140	1.60E-02	1.12E-02	4.11E-02	pCi/m3	U
2233	657104010	1/24/2024	Beryllium-7	7.40E-02	7.81E-03	8.96E-03	pCi/m3	
2233	659797002	2/20/2024	Beryllium-7	9.41E-02	7.55E-03	8.09E-03	pCi/m3	
2233	664161002	3/19/2024	Beryllium-7	8.81E-02	6.78E-03	9.31E-03	pCi/m3	
2233	669419001	4/16/2024	Beryllium-7	1.14E-01	8.80E-03	1.03E-02	pCi/m3	
2233	674392003	5/13/2024	Beryllium-7	1.59E-01	1.10E-02	9.35E-03	pCi/m3	
2233	676203003	6/11/2024	Beryllium-7	1.18E-01	1.04E-02	1.10E-02	pCi/m3	
2233	682054007	7/8/2024	Beryllium-7	1.26E-01	1.15E-02	1.46E-02	pCi/m3	
2233	691730008	8/6/2024	Beryllium-7	8.11E-02	1.57E-02	2.54E-02	pCi/m3	
2233	691734005	8/27/2024	Beryllium-7	1.36E-01	1.63E-02	1.53E-02	pCi/m3	
2233	695577006	10/1/2024	Beryllium-7	9.93E-02	8.23E-03	1.11E-02	pCi/m3	
2233	702719011	10/28/2024	Beryllium-7	1.11E-01	1.21E-02	1.44E-02	pCi/m3	
2233	703169001	11/25/2024	Beryllium-7	4.63E-02	1.50E-02	2.39E-02	pCi/m3	
2233	706986001	12/24/2024	Beryllium-7	7.22E-02	9.01E-03	1.18E-02	pCi/m3	
2233	650210013	1/2/2024	BETA	3.79E-02	1.61E-03	1.27E-03	pCi/m3	
2233	650994025	1/8/2024	BETA	3.95E-02	1.80E-03	1.57E-03	pCi/m3	
2233	651848011	1/18/2024	BETA	4.23E-02	1.44E-03	8.99E-04	pCi/m3	
2233	652268023	1/24/2024	BETA	4.46E-02	1.94E-03	1.57E-03	pCi/m3	
2233	653178013	1/31/2024	BETA	1.60E-02	1.12E-03	1.31E-03	pCi/m3	
2233	654187007	2/6/2024	BETA	4.02E-02	1.66E-03	1.34E-03	pCi/m3	
2233	655008017	2/13/2024	BETA	2.19E-02	1.22E-03	1.28E-03	pCi/m3	
2233	655819005	2/20/2024	BETA	3.08E-02	1.41E-03	1.19E-03	pCi/m3	
2233	656511021	2/27/2024	BETA	3.12E-02	1.44E-03	1.13E-03	pCi/m3	
2233	657416018	3/4/2024	BETA	2.28E-02	1.29E-03	1.29E-03	pCi/m3	
2233	658450021	3/12/2024	BETA	2.29E-02	1.15E-03	9.68E-04	pCi/m3	

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	659313003	3/19/2024	BETA	3.06E-02	1.41E-03	1.16E-03	pCi/m3	
2233	660083011	3/26/2024	BETA	2.65E-02	1.31E-03	1.11E-03	pCi/m3	
2233	660793001	4/1/2024	BETA	3.87E-02	1.70E-03	1.33E-03	pCi/m3	
2233	662052019	4/9/2024	BETA	2.26E-02	1.08E-03	8.59E-04	pCi/m3	
2233	662074001	4/16/2024	BETA	2.70E-02	1.25E-03	1.00E-03	pCi/m3	
2233	664092003	4/23/2024	BETA	2.86E-02	1.32E-03	1.01E-03	pCi/m3	
2233	665204019	4/30/2024	BETA	3.32E-02	1.43E-03	1.05E-03	pCi/m3	
2233	666121021	5/7/2024	BETA	2.75E-02	1.40E-03	1.22E-03	pCi/m3	
2233	667159005	5/13/2024	BETA	3.44E-02	1.70E-03	1.42E-03	pCi/m3	
2233	668220028	5/20/2024	BETA	2.26E-02	1.27E-03	1.19E-03	pCi/m3	
2233	669062011	5/28/2024	BETA	4.15E-02	1.63E-03	1.11E-03	pCi/m3	
2233	669755007	6/3/2024	BETA	2.71E-02	1.57E-03	1.57E-03	pCi/m3	
2233	670837005	6/11/2024	BETA	1.88E-02	9.92E-04	8.94E-04	pCi/m3	
2233	671897021	6/18/2024	BETA	3.82E-02	1.69E-03	1.31E-03	pCi/m3	
2233	672773021	6/25/2024	BETA	3.69E-02	1.64E-03	1.28E-03	pCi/m3	
2233	673676011	7/2/2024	BETA	2.94E-02	1.53E-03	1.40E-03	pCi/m3	
2233	674336013	7/8/2024	BETA	2.44E-02	1.50E-03	1.60E-03	pCi/m3	
2233	675686023	7/16/2024	BETA	3.62E-02	1.53E-03	1.12E-03	pCi/m3	
2233	676802021	7/23/2024	BETA	2.57E-02	1.45E-03	1.44E-03	pCi/m3	
2233	677970011	7/30/2024	BETA	3.09E-02	1.60E-03	1.42E-03	pCi/m3	
2233	679202015	8/6/2024	BETA	3.70E-02	1.72E-03	1.46E-03	pCi/m3	
2233	680237015	8/13/2024	BETA	4.61E-02	1.92E-03	1.39E-03	pCi/m3	
2233	681488015	8/20/2024	BETA	4.19E-02	1.86E-03	1.42E-03	pCi/m3	
2233	682604009	8/27/2024	BETA	5.12E-02	2.03E-03	1.47E-03	pCi/m3	
2233	683692011	9/4/2024	BETA	4.22E-02	1.71E-03	1.22E-03	pCi/m3	
2233	684664009	9/11/2024	BETA	3.96E-02	1.97E-03	1.72E-03	pCi/m3	
2233	685842015	9/17/2024	BETA	3.65E-02	3.33E-03	1.41E-03	pCi/m3	
2233	686976001	9/23/2024	BETA	4.77E-02	2.06E-03	1.54E-03	pCi/m3	
2233	687851011	10/1/2024	BETA	3.10E-02	1.41E-03	1.19E-03	pCi/m3	
2233	689079013	10/8/2024	BETA	5.28E-02	2.01E-03	1.42E-03	pCi/m3	
2233	690093010	10/15/2024	BETA	5.17E-02	1.94E-03	1.32E-03	pCi/m3	
2233	691165003	10/22/2024	BETA	4.31E-02	1.80E-03	1.28E-03	pCi/m3	
2233	692327035	10/28/2024	BETA	7.47E-02	2.56E-03	1.62E-03	pCi/m3	
2233	693531001	11/4/2024	BETA	4.35E-02	1.84E-03	1.36E-03	pCi/m3	
2233	694911013	11/13/2024	BETA	3.74E-02	1.51E-03	1.13E-03	pCi/m3	
2233	696166001	11/19/2024	BETA	6.63E-02	2.46E-03	1.57E-03	pCi/m3	
2233	697367001	11/25/2024	BETA	4.18E-02	1.94E-03	1.71E-03	pCi/m3	
2233	698165019	12/4/2024	BETA	5.39E-02	1.80E-03	1.10E-03	pCi/m3	
2233	699433011	12/10/2024	BETA	4.81E-02	2.10E-03	1.69E-03	pCi/m3	
2233	700752009	12/17/2024	BETA	3.84E-02	1.74E-03	1.50E-03	pCi/m3	
2233	701911001	12/24/2024	BETA	3.58E-02	1.66E-03	1.44E-03	pCi/m3	
2233	657104010	1/24/2024	Bismuth-214	-7.63E-04	6.22E-04	1.78E-03	pCi/m3	U
2233	659797002	2/20/2024	Bismuth-214	2.91E-04	5.77E-04	1.87E-03	pCi/m3	U
2233	664161002	3/19/2024	Bismuth-214	7.95E-05	5.26E-04	1.67E-03	pCi/m3	U
2233	669419001	4/16/2024	Bismuth-214	1.33E-03	9.73E-04	2.08E-03	pCi/m3	U
2233	674392003	5/13/2024	Bismuth-214	1.41E-03	6.93E-04	1.53E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	676203003	6/11/2024	Bismuth-214	9.27E-04	9.77E-04	2.14E-03	pCi/m3	U
2233	682054007	7/8/2024	Bismuth-214	-7.91E-05	7.24E-04	2.34E-03	pCi/m3	U
2233	691730008	8/6/2024	Bismuth-214	5.16E-04	1.46E-03	3.53E-03	pCi/m3	U
2233	691734005	8/27/2024	Bismuth-214	-8.20E-04	7.64E-04	2.23E-03	pCi/m3	U
2233	695577006	10/1/2024	Bismuth-214	1.46E-03	9.70E-04	1.52E-03	pCi/m3	U
2233	702719011	10/28/2024	Bismuth-214	6.36E-05	7.86E-04	1.92E-03	pCi/m3	U
2233	703169001	11/25/2024	Bismuth-214	2.22E-03	2.57E-03	3.08E-03	pCi/m3	U
2233	706986001	12/24/2024	Bismuth-214	1.65E-06	1.15E-03	2.32E-03	pCi/m3	U
2233	657104010	1/24/2024	Cerium-141	4.56E-05	5.20E-04	1.56E-03	pCi/m3	U
2233	659797002	2/20/2024	Cerium-141	-7.36E-04	4.75E-04	1.35E-03	pCi/m3	U
2233	664161002	3/19/2024	Cerium-141	-1.31E-03	5.98E-04	1.65E-03	pCi/m3	U
2233	669419001	4/16/2024	Cerium-141	-5.00E-04	6.19E-04	1.74E-03	pCi/m3	U
2233	674392003	5/13/2024	Cerium-141	-9.46E-04	8.11E-04	2.40E-03	pCi/m3	U
2233	676203003	6/11/2024	Cerium-141	-1.11E-03	5.49E-04	1.57E-03	pCi/m3	U
2233	682054007	7/8/2024	Cerium-141	-7.10E-05	9.09E-04	2.82E-03	pCi/m3	U
2233	691730008	8/6/2024	Cerium-141	-1.98E-04	1.74E-03	5.68E-03	pCi/m3	U
2233	691734005	8/27/2024	Cerium-141	-2.52E-04	9.36E-04	3.03E-03	pCi/m3	U
2233	695577006	10/1/2024	Cerium-141	1.36E-04	9.08E-04	2.34E-03	pCi/m3	U
2233	702719011	10/28/2024	Cerium-141	6.02E-04	1.55E-03	2.69E-03	pCi/m3	U
2233	703169001	11/25/2024	Cerium-141	7.72E-04	1.92E-03	3.89E-03	pCi/m3	U
2233	706986001	12/24/2024	Cerium-141	-2.83E-04	7.00E-04	2.34E-03	pCi/m3	U
2233	657104010	1/24/2024	Cerium-144	-8.74E-04	1.02E-03	3.17E-03	pCi/m3	U
2233	659797002	2/20/2024	Cerium-144	-6.42E-04	1.01E-03	3.14E-03	pCi/m3	U
2233	664161002	3/19/2024	Cerium-144	-1.42E-04	9.47E-04	3.06E-03	pCi/m3	U
2233	669419001	4/16/2024	Cerium-144	-8.95E-04	9.31E-04	2.94E-03	pCi/m3	U
2233	674392003	5/13/2024	Cerium-144	4.06E-04	8.69E-04	2.85E-03	pCi/m3	U
2233	676203003	6/11/2024	Cerium-144	-9.81E-04	1.07E-03	3.31E-03	pCi/m3	U
2233	682054007	7/8/2024	Cerium-144	1.06E-04	1.12E-03	3.70E-03	pCi/m3	U
2233	691730008	8/6/2024	Cerium-144	-2.54E-04	1.30E-03	4.23E-03	pCi/m3	U
2233	691734005	8/27/2024	Cerium-144	-3.40E-04	1.11E-03	3.61E-03	pCi/m3	U
2233	695577006	10/1/2024	Cerium-144	4.62E-04	1.09E-03	3.56E-03	pCi/m3	U
2233	702719011	10/28/2024	Cerium-144	-1.74E-04	8.35E-04	2.73E-03	pCi/m3	U
2233	703169001	11/25/2024	Cerium-144	1.62E-04	2.00E-03	6.77E-03	pCi/m3	U
2233	706986001	12/24/2024	Cerium-144	-4.88E-04	1.29E-03	4.31E-03	pCi/m3	U
2233	657104010	1/24/2024	Cesium-134	-4.93E-05	3.04E-04	9.71E-04	pCi/m3	U
2233	659797002	2/20/2024	Cesium-134	3.28E-04	2.44E-04	8.84E-04	pCi/m3	U
2233	664161002	3/19/2024	Cesium-134	-5.91E-04	2.79E-04	7.14E-04	pCi/m3	U
2233	669419001	4/16/2024	Cesium-134	8.99E-05	2.33E-04	8.11E-04	pCi/m3	U
2233	674392003	5/13/2024	Cesium-134	-1.09E-04	2.50E-04	7.54E-04	pCi/m3	U
2233	676203003	6/11/2024	Cesium-134	5.53E-05	3.04E-04	1.00E-03	pCi/m3	U
2233	682054007	7/8/2024	Cesium-134	-3.80E-05	3.08E-04	1.03E-03	pCi/m3	U
2233	691730008	8/6/2024	Cesium-134	1.43E-04	4.11E-04	1.37E-03	pCi/m3	U
2233	691734005	8/27/2024	Cesium-134	-3.20E-04	3.17E-04	9.45E-04	pCi/m3	U
2233	695577006	10/1/2024	Cesium-134	2.03E-04	3.15E-04	9.73E-04	pCi/m3	U
2233	702719011	10/28/2024	Cesium-134	-4.99E-04	3.25E-04	8.87E-04	pCi/m3	U
2233	703169001	11/25/2024	Cesium-134	9.48E-05	6.05E-04	2.03E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	706986001	12/24/2024	Cesium-134	-1.37E-04	3.16E-04	9.49E-04	pCi/m3	U
2233	657104010	1/24/2024	Cesium-137	4.13E-04	3.02E-04	8.14E-04	pCi/m3	U
2233	659797002	2/20/2024	Cesium-137	2.93E-04	1.87E-04	6.99E-04	pCi/m3	U
2233	664161002	3/19/2024	Cesium-137	1.36E-05	2.46E-04	8.12E-04	pCi/m3	U
2233	669419001	4/16/2024	Cesium-137	-4.03E-04	2.48E-04	5.84E-04	pCi/m3	U
2233	674392003	5/13/2024	Cesium-137	-6.65E-05	2.15E-04	6.72E-04	pCi/m3	U
2233	676203003	6/11/2024	Cesium-137	-3.07E-04	2.33E-04	6.67E-04	pCi/m3	U
2233	682054007	7/8/2024	Cesium-137	6.40E-04	2.88E-04	7.31E-04	pCi/m3	U
2233	691730008	8/6/2024	Cesium-137	4.41E-04	4.19E-04	1.20E-03	pCi/m3	U
2233	691734005	8/27/2024	Cesium-137	-5.23E-06	2.97E-04	9.43E-04	pCi/m3	U
2233	695577006	10/1/2024	Cesium-137	6.62E-04	3.86E-04	6.51E-04	pCi/m3	UI
2233	702719011	10/28/2024	Cesium-137	8.37E-05	2.80E-04	9.28E-04	pCi/m3	U
2233	703169001	11/25/2024	Cesium-137	-1.59E-04	4.51E-04	1.47E-03	pCi/m3	U
2233	706986001	12/24/2024	Cesium-137	-4.52E-05	3.67E-04	1.10E-03	pCi/m3	U
2233	657104010	1/24/2024	Chromium-51	1.03E-02	3.96E-03	1.52E-02	pCi/m3	U
2233	659797002	2/20/2024	Chromium-51	-3.40E-03	3.04E-03	9.67E-03	pCi/m3	U
2233	664161002	3/19/2024	Chromium-51	-2.07E-03	3.42E-03	1.14E-02	pCi/m3	U
2233	669419001	4/16/2024	Chromium-51	-1.23E-03	4.55E-03	1.53E-02	pCi/m3	U
2233	674392003	5/13/2024	Chromium-51	-4.06E-03	7.41E-03	2.08E-02	pCi/m3	U
2233	676203003	6/11/2024	Chromium-51	3.22E-04	4.84E-03	1.67E-02	pCi/m3	U
2233	682054007	7/8/2024	Chromium-51	-2.79E-03	6.27E-03	2.07E-02	pCi/m3	U
2233	691730008	8/6/2024	Chromium-51	-1.33E-03	1.70E-02	5.83E-02	pCi/m3	U
2233	691734005	8/27/2024	Chromium-51	-6.07E-03	8.56E-03	2.78E-02	pCi/m3	U
2233	695577006	10/1/2024	Chromium-51	4.63E-03	4.82E-03	1.73E-02	pCi/m3	U
2233	702719011	10/28/2024	Chromium-51	2.86E-03	9.07E-03	3.16E-02	pCi/m3	U
2233	703169001	11/25/2024	Chromium-51	-8.86E-03	1.11E-02	3.46E-02	pCi/m3	U
2233	706986001	12/24/2024	Chromium-51	1.07E-02	1.24E-02	1.91E-02	pCi/m3	U
2233	657104010	1/24/2024	Cobalt-57	2.33E-04	1.19E-04	4.27E-04	pCi/m3	U
2233	659797002	2/20/2024	Cobalt-57	4.35E-05	1.20E-04	3.94E-04	pCi/m3	U
2233	664161002	3/19/2024	Cobalt-57	-7.24E-05	1.20E-04	3.79E-04	pCi/m3	U
2233	669419001	4/16/2024	Cobalt-57	-2.65E-04	1.16E-04	3.37E-04	pCi/m3	U
2233	674392003	5/13/2024	Cobalt-57	-6.92E-05	1.19E-04	3.67E-04	pCi/m3	U
2233	676203003	6/11/2024	Cobalt-57	1.25E-04	1.30E-04	4.45E-04	pCi/m3	U
2233	682054007	7/8/2024	Cobalt-57	-1.64E-05	1.40E-04	4.59E-04	pCi/m3	U
2233	691730008	8/6/2024	Cobalt-57	3.00E-04	1.81E-04	6.53E-04	pCi/m3	U
2233	691734005	8/27/2024	Cobalt-57	-1.27E-04	1.41E-04	4.46E-04	pCi/m3	U
2233	695577006	10/1/2024	Cobalt-57	-1.10E-04	1.43E-04	4.36E-04	pCi/m3	U
2233	702719011	10/28/2024	Cobalt-57	-8.30E-05	1.06E-04	3.39E-04	pCi/m3	U
2233	703169001	11/25/2024	Cobalt-57	1.63E-04	2.38E-04	8.27E-04	pCi/m3	U
2233	706986001	12/24/2024	Cobalt-57	2.27E-04	2.31E-04	5.62E-04	pCi/m3	U
2233	657104010	1/24/2024	Cobalt-58	-2.64E-04	3.07E-04	8.98E-04	pCi/m3	U
2233	659797002	2/20/2024	Cobalt-58	6.62E-05	2.66E-04	8.76E-04	pCi/m3	U
2233	664161002	3/19/2024	Cobalt-58	-1.35E-04	2.67E-04	8.11E-04	pCi/m3	U
2233	669419001	4/16/2024	Cobalt-58	5.70E-04	3.17E-04	1.19E-03	pCi/m3	U
2233	674392003	5/13/2024	Cobalt-58	-7.18E-05	2.69E-04	8.17E-04	pCi/m3	U
2233	676203003	6/11/2024	Cobalt-58	-3.79E-04	4.51E-04	1.36E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	682054007	7/8/2024	Cobalt-58	-1.77E-04	4.82E-04	1.36E-03	pCi/m3	U
2233	691730008	8/6/2024	Cobalt-58	-3.06E-04	9.11E-04	2.79E-03	pCi/m3	U
2233	691734005	8/27/2024	Cobalt-58	-5.66E-04	4.73E-04	1.36E-03	pCi/m3	U
2233	695577006	10/1/2024	Cobalt-58	4.36E-04	3.44E-04	1.18E-03	pCi/m3	U
2233	702719011	10/28/2024	Cobalt-58	-9.99E-04	5.18E-04	1.32E-03	pCi/m3	U
2233	703169001	11/25/2024	Cobalt-58	-8.41E-04	5.92E-04	1.62E-03	pCi/m3	U
2233	706986001	12/24/2024	Cobalt-58	3.63E-05	4.69E-04	1.50E-03	pCi/m3	U
2233	657104010	1/24/2024	Cobalt-60	1.28E-04	1.89E-04	7.01E-04	pCi/m3	U
2233	659797002	2/20/2024	Cobalt-60	1.88E-04	2.49E-04	9.02E-04	pCi/m3	U
2233	664161002	3/19/2024	Cobalt-60	3.07E-04	2.77E-04	1.04E-03	pCi/m3	U
2233	669419001	4/16/2024	Cobalt-60	4.60E-04	2.12E-04	9.34E-04	pCi/m3	U
2233	674392003	5/13/2024	Cobalt-60	3.07E-05	2.15E-04	7.23E-04	pCi/m3	U
2233	676203003	6/11/2024	Cobalt-60	5.52E-05	2.53E-04	8.70E-04	pCi/m3	U
2233	682054007	7/8/2024	Cobalt-60	6.38E-04	3.51E-04	1.41E-03	pCi/m3	U
2233	691730008	8/6/2024	Cobalt-60	3.43E-04	3.93E-04	1.47E-03	pCi/m3	U
2233	691734005	8/27/2024	Cobalt-60	1.33E-04	3.69E-04	1.30E-03	pCi/m3	U
2233	695577006	10/1/2024	Cobalt-60	-2.30E-04	2.84E-04	8.22E-04	pCi/m3	U
2233	702719011	10/28/2024	Cobalt-60	2.05E-04	2.59E-04	9.37E-04	pCi/m3	U
2233	703169001	11/25/2024	Cobalt-60	1.80E-04	6.47E-04	2.17E-03	pCi/m3	U
2233	706986001	12/24/2024	Cobalt-60	2.49E-04	2.65E-04	1.01E-03	pCi/m3	U
2233	657104010	1/24/2024	Iron-59	4.93E-05	8.02E-04	2.74E-03	pCi/m3	U
2233	659797002	2/20/2024	Iron-59	-8.12E-05	7.68E-04	2.56E-03	pCi/m3	U
2233	664161002	3/19/2024	Iron-59	-3.07E-05	7.20E-04	2.26E-03	pCi/m3	U
2233	669419001	4/16/2024	Iron-59	3.00E-03	9.20E-04	4.12E-03	pCi/m3	U
2233	674392003	5/13/2024	Iron-59	-1.34E-03	1.02E-03	2.82E-03	pCi/m3	U
2233	676203003	6/11/2024	Iron-59	5.31E-04	8.30E-04	3.01E-03	pCi/m3	U
2233	682054007	7/8/2024	Iron-59	-3.21E-04	1.39E-03	4.45E-03	pCi/m3	U
2233	691730008	8/6/2024	Iron-59	-5.48E-03	3.22E-03	8.65E-03	pCi/m3	U
2233	691734005	8/27/2024	Iron-59	-4.23E-04	1.25E-03	3.81E-03	pCi/m3	U
2233	695577006	10/1/2024	Iron-59	-1.24E-03	9.21E-04	2.48E-03	pCi/m3	U
2233	702719011	10/28/2024	Iron-59	1.65E-04	1.45E-03	4.88E-03	pCi/m3	U
2233	703169001	11/25/2024	Iron-59	-3.70E-04	2.87E-03	5.71E-03	pCi/m3	U
2233	706986001	12/24/2024	Iron-59	-1.21E-03	1.03E-03	2.90E-03	pCi/m3	U
2233	657104010	1/24/2024	Lanthanum-140	1.77E-03	1.83E-03	6.93E-03	pCi/m3	U
2233	659797002	2/20/2024	Lanthanum-140	-1.47E-03	1.37E-03	3.59E-03	pCi/m3	U
2233	664161002	3/19/2024	Lanthanum-140	1.51E-05	2.53E-03	8.35E-03	pCi/m3	U
2233	669419001	4/16/2024	Lanthanum-140	-4.51E-03	7.10E-03	1.45E-02	pCi/m3	U
2233	674392003	5/13/2024	Lanthanum-140	-7.56E-03	6.93E-03	1.78E-02	pCi/m3	U
2233	676203003	6/11/2024	Lanthanum-140	1.96E-03	3.21E-03	1.15E-02	pCi/m3	U
2233	682054007	7/8/2024	Lanthanum-140	-1.56E-03	5.55E-03	1.76E-02	pCi/m3	U
2233	691730008	8/6/2024	Lanthanum-140	-1.09E-02	7.13E-02	2.25E-01	pCi/m3	U
2233	691734005	8/27/2024	Lanthanum-140	-1.76E-02	1.38E-02	3.50E-02	pCi/m3	U
2233	695577006	10/1/2024	Lanthanum-140	3.97E-03	5.58E-03	1.98E-02	pCi/m3	U
2233	702719011	10/28/2024	Lanthanum-140	-6.68E-03	1.43E-02	4.22E-02	pCi/m3	U
2233	703169001	11/25/2024	Lanthanum-140	2.39E-03	9.05E-03	3.01E-02	pCi/m3	U
2233	706986001	12/24/2024	Lanthanum-140	2.72E-03	4.77E-03	1.70E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	657104010	1/24/2024	Lead-210	1.37E-01	4.97E-02	5.25E-02	pCi/m3	UI
2233	659797002	2/20/2024	Lead-210	3.49E-02	4.13E-02	5.28E-02	pCi/m3	U
2233	664161002	3/19/2024	Lead-210	3.25E-02	3.24E-02	5.33E-02	pCi/m3	U
2233	669419001	4/16/2024	Lead-210	-3.06E-03	3.70E-02	1.06E-01	pCi/m3	U
2233	674392003	5/13/2024	Lead-210	1.13E-02	1.71E-02	3.29E-02	pCi/m3	U
2233	676203003	6/11/2024	Lead-210	1.45E-02	2.24E-02	7.13E-02	pCi/m3	U
2233	682054007	7/8/2024	Lead-210	5.11E-02	2.69E-02	1.01E-01	pCi/m3	U
2233	691730008	8/6/2024	Lead-210	1.92E-02	8.33E-03	9.24E-03	pCi/m3	UI
2233	691734005	8/27/2024	Lead-210	3.75E-02	3.95E-02	1.27E-01	pCi/m3	U
2233	695577006	10/1/2024	Lead-210	3.15E-02	1.74E-02	3.35E-02	pCi/m3	U
2233	702719011	10/28/2024	Lead-210	3.96E-02	4.09E-03	5.38E-03	pCi/m3	
2233	703169001	11/25/2024	Lead-210	4.28E-02	6.66E-03	9.18E-03	pCi/m3	
2233	706986001	12/24/2024	Lead-210	6.33E-02	3.53E-02	8.85E-02	pCi/m3	U
2233	657104010	1/24/2024	Lead-212	1.83E-04	5.39E-04	1.03E-03	pCi/m3	U
2233	659797002	2/20/2024	Lead-212	8.04E-05	6.27E-04	1.13E-03	pCi/m3	U
2233	664161002	3/19/2024	Lead-212	5.69E-04	6.40E-04	1.09E-03	pCi/m3	U
2233	669419001	4/16/2024	Lead-212	1.04E-03	5.10E-04	1.26E-03	pCi/m3	U
2233	674392003	5/13/2024	Lead-212	3.02E-05	4.64E-04	1.06E-03	pCi/m3	U
2233	676203003	6/11/2024	Lead-212	1.82E-03	8.88E-04	1.19E-03	pCi/m3	UI
2233	682054007	7/8/2024	Lead-212	1.68E-03	6.06E-04	1.76E-03	pCi/m3	U
2233	691730008	8/6/2024	Lead-212	2.93E-03	7.39E-04	1.28E-03	pCi/m3	
2233	691734005	8/27/2024	Lead-212	1.86E-04	6.83E-04	1.58E-03	pCi/m3	U
2233	695577006	10/1/2024	Lead-212	1.76E-03	5.49E-04	1.65E-03	pCi/m3	UI
2233	702719011	10/28/2024	Lead-212	8.21E-04	5.18E-04	8.31E-04	pCi/m3	U
2233	703169001	11/25/2024	Lead-212	2.42E-04	1.43E-03	2.82E-03	pCi/m3	U
2233	706986001	12/24/2024	Lead-212	9.32E-04	6.71E-04	1.79E-03	pCi/m3	U
2233	657104010	1/24/2024	Lead-214	4.74E-05	5.71E-04	1.66E-03	pCi/m3	U
2233	659797002	2/20/2024	Lead-214	1.48E-04	4.82E-04	1.60E-03	pCi/m3	U
2233	664161002	3/19/2024	Lead-214	1.94E-04	5.23E-04	1.68E-03	pCi/m3	U
2233	669419001	4/16/2024	Lead-214	9.16E-04	7.22E-04	1.43E-03	pCi/m3	U
2233	674392003	5/13/2024	Lead-214	4.37E-04	4.52E-04	1.56E-03	pCi/m3	U
2233	676203003	6/11/2024	Lead-214	7.79E-04	5.41E-04	1.86E-03	pCi/m3	U
2233	682054007	7/8/2024	Lead-214	1.96E-03	6.36E-04	2.35E-03	pCi/m3	U
2233	691730008	8/6/2024	Lead-214	1.93E-03	1.03E-03	2.06E-03	pCi/m3	U
2233	691734005	8/27/2024	Lead-214	2.08E-03	7.88E-04	2.17E-03	pCi/m3	U
2233	695577006	10/1/2024	Lead-214	2.48E-03	9.49E-04	2.37E-03	pCi/m3	UI
2233	702719011	10/28/2024	Lead-214	6.98E-04	7.40E-04	1.17E-03	pCi/m3	U
2233	703169001	11/25/2024	Lead-214	-2.01E-03	1.09E-03	3.19E-03	pCi/m3	U
2233	706986001	12/24/2024	Lead-214	1.37E-04	6.98E-04	2.09E-03	pCi/m3	U
2233	657104010	1/24/2024	Manganese-54	-2.29E-04	2.66E-04	7.87E-04	pCi/m3	U
2233	659797002	2/20/2024	Manganese-54	-1.69E-04	2.69E-04	8.09E-04	pCi/m3	U
2233	664161002	3/19/2024	Manganese-54	-1.72E-04	2.58E-04	7.80E-04	pCi/m3	U
2233	669419001	4/16/2024	Manganese-54	-2.97E-04	2.26E-04	6.40E-04	pCi/m3	U
2233	674392003	5/13/2024	Manganese-54	2.21E-04	2.05E-04	7.68E-04	pCi/m3	U
2233	676203003	6/11/2024	Manganese-54	-3.82E-04	3.11E-04	8.92E-04	pCi/m3	U
2233	682054007	7/8/2024	Manganese-54	2.88E-04	3.45E-04	1.24E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	691730008	8/6/2024	Manganese-54	5.01E-04	5.28E-04	1.84E-03	pCi/m3	U
2233	691734005	8/27/2024	Manganese-54	-1.41E-04	3.89E-04	1.09E-03	pCi/m3	U
2233	695577006	10/1/2024	Manganese-54	3.01E-04	2.87E-04	1.06E-03	pCi/m3	U
2233	702719011	10/28/2024	Manganese-54	4.54E-05	3.11E-04	1.00E-03	pCi/m3	U
2233	703169001	11/25/2024	Manganese-54	2.73E-04	5.04E-04	1.77E-03	pCi/m3	U
2233	706986001	12/24/2024	Manganese-54	1.49E-04	2.85E-04	1.02E-03	pCi/m3	U
2233	657104010	1/24/2024	Molybdenum-99	-4.20E+00	1.51E+01	0.00E+00	pCi/m3	U
2233	659797002	2/20/2024	Molybdenum-99	5.86E+00	4.72E+00	0.00E+00	pCi/m3	UI
2233	664161002	3/19/2024	Molybdenum-99	8.92E+00	1.72E+01	0.00E+00	pCi/m3	UI
2233	669419001	4/16/2024	Molybdenum-99	-1.80E+02	6.80E+02	0.00E+00	pCi/m3	U
2233	674392003	5/13/2024	Molybdenum-99	-1.00E+04	9.16E+03	0.00E+00	pCi/m3	U
2233	676203003	6/11/2024	Molybdenum-99	2.88E+01	9.14E+01	0.00E+00	pCi/m3	UI
2233	682054007	7/8/2024	Molybdenum-99	-1.69E+02	1.10E+03	0.00E+00	pCi/m3	U
2233	691730008	8/6/2024	Molybdenum-99	4.18E+06	1.02E+07	0.00E+00	pCi/m3	UI
2233	691734005	8/27/2024	Molybdenum-99	-6.85E+04	3.46E+04	0.00E+00	pCi/m3	U
2233	695577006	10/1/2024	Molybdenum-99	-3.41E+02	8.75E+02	0.00E+00	pCi/m3	U
2233	702719011	10/28/2024	Molybdenum-99	2.57E+05	2.09E+05	0.00E+00	pCi/m3	UI
2233	703169001	11/25/2024	Molybdenum-99	-1.29E+01	4.72E+02	0.00E+00	pCi/m3	U
2233	706986001	12/24/2024	Molybdenum-99	1.98E+02	4.73E+02	0.00E+00	pCi/m3	UI
2233	657104010	1/24/2024	Niobium-95	-3.00E-04	3.47E-04	1.04E-03	pCi/m3	U
2233	659797002	2/20/2024	Niobium-95	5.26E-04	3.09E-04	1.14E-03	pCi/m3	U
2233	664161002	3/19/2024	Niobium-95	8.00E-04	5.44E-04	1.27E-03	pCi/m3	U
2233	669419001	4/16/2024	Niobium-95	4.23E-05	3.47E-04	1.18E-03	pCi/m3	U
2233	674392003	5/13/2024	Niobium-95	-1.37E-04	3.60E-04	1.09E-03	pCi/m3	U
2233	676203003	6/11/2024	Niobium-95	-6.38E-04	4.17E-04	1.07E-03	pCi/m3	U
2233	682054007	7/8/2024	Niobium-95	2.65E-04	4.92E-04	1.75E-03	pCi/m3	U
2233	691730008	8/6/2024	Niobium-95	-4.64E-04	1.07E-03	3.29E-03	pCi/m3	U
2233	691734005	8/27/2024	Niobium-95	1.67E-04	5.65E-04	1.95E-03	pCi/m3	U
2233	695577006	10/1/2024	Niobium-95	-2.44E-06	4.30E-04	1.37E-03	pCi/m3	U
2233	702719011	10/28/2024	Niobium-95	7.09E-05	5.36E-04	1.74E-03	pCi/m3	U
2233	703169001	11/25/2024	Niobium-95	8.38E-05	7.48E-04	2.24E-03	pCi/m3	U
2233	706986001	12/24/2024	Niobium-95	-6.25E-04	4.38E-04	1.14E-03	pCi/m3	U
2233	657104010	1/24/2024	Potassium-40	1.56E-02	4.88E-03	5.56E-03	pCi/m3	
2233	659797002	2/20/2024	Potassium-40	1.11E-02	5.21E-03	7.53E-03	pCi/m3	UI
2233	664161002	3/19/2024	Potassium-40	9.91E-03	4.24E-03	6.12E-03	pCi/m3	UI
2233	669419001	4/16/2024	Potassium-40	1.21E-04	5.78E-03	1.41E-02	pCi/m3	U
2233	674392003	5/13/2024	Potassium-40	4.99E-03	5.84E-03	8.82E-03	pCi/m3	U
2233	676203003	6/11/2024	Potassium-40	1.44E-02	5.95E-03	6.79E-03	pCi/m3	UI
2233	682054007	7/8/2024	Potassium-40	2.07E-03	5.03E-03	1.79E-02	pCi/m3	U
2233	691730008	8/6/2024	Potassium-40	-2.32E-03	6.08E-03	1.95E-02	pCi/m3	U
2233	691734005	8/27/2024	Potassium-40	5.97E-03	5.74E-03	2.03E-02	pCi/m3	U
2233	695577006	10/1/2024	Potassium-40	5.25E-03	5.92E-03	9.75E-03	pCi/m3	U
2233	702719011	10/28/2024	Potassium-40	6.32E-03	6.73E-03	9.60E-03	pCi/m3	U
2233	703169001	11/25/2024	Potassium-40	2.38E-02	9.34E-03	2.25E-02	pCi/m3	UI
2233	706986001	12/24/2024	Potassium-40	6.90E-04	6.07E-03	9.28E-03	pCi/m3	U
2233	657104010	1/24/2024	Radium-226	4.74E-05	5.71E-04	1.66E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	659797002	2/20/2024	Radium-226	1.48E-04	4.82E-04	1.60E-03	pCi/m3	U
2233	664161002	3/19/2024	Radium-226	1.94E-04	5.23E-04	1.68E-03	pCi/m3	U
2233	669419001	4/16/2024	Radium-226	9.16E-04	7.22E-04	1.43E-03	pCi/m3	U
2233	674392003	5/13/2024	Radium-226	4.37E-04	4.52E-04	1.56E-03	pCi/m3	U
2233	676203003	6/11/2024	Radium-226	7.79E-04	5.41E-04	1.86E-03	pCi/m3	U
2233	682054007	7/8/2024	Radium-226	1.96E-03	6.36E-04	2.35E-03	pCi/m3	U
2233	691730008	8/6/2024	Radium-226	1.93E-03	1.03E-03	2.06E-03	pCi/m3	U
2233	691734005	8/27/2024	Radium-226	2.08E-03	7.88E-04	2.17E-03	pCi/m3	U
2233	695577006	10/1/2024	Radium-226	2.48E-03	9.49E-04	2.37E-03	pCi/m3	UI
2233	702719011	10/28/2024	Radium-226	6.98E-04	7.40E-04	1.17E-03	pCi/m3	U
2233	703169001	11/25/2024	Radium-226	-2.01E-03	1.09E-03	3.19E-03	pCi/m3	U
2233	706986001	12/24/2024	Radium-226	1.37E-04	6.98E-04	2.09E-03	pCi/m3	U
2233	657104010	1/24/2024	Radium-228	-8.02E-04	1.34E-03	4.23E-03	pCi/m3	U
2233	659797002	2/20/2024	Radium-228	6.50E-05	1.13E-03	3.62E-03	pCi/m3	U
2233	664161002	3/19/2024	Radium-228	1.41E-03	1.25E-03	3.41E-03	pCi/m3	U
2233	669419001	4/16/2024	Radium-228	1.01E-03	9.31E-04	3.24E-03	pCi/m3	U
2233	674392003	5/13/2024	Radium-228	1.46E-03	2.06E-03	3.93E-03	pCi/m3	U
2233	676203003	6/11/2024	Radium-228	4.40E-04	1.27E-03	4.24E-03	pCi/m3	U
2233	682054007	7/8/2024	Radium-228	-1.60E-03	1.49E-03	4.20E-03	pCi/m3	U
2233	691730008	8/6/2024	Radium-228	7.39E-04	1.60E-03	5.66E-03	pCi/m3	U
2233	691734005	8/27/2024	Radium-228	9.71E-04	2.09E-03	4.97E-03	pCi/m3	U
2233	695577006	10/1/2024	Radium-228	-1.44E-03	1.19E-03	3.43E-03	pCi/m3	U
2233	702719011	10/28/2024	Radium-228	-1.35E-04	1.35E-03	4.17E-03	pCi/m3	U
2233	703169001	11/25/2024	Radium-228	1.17E-03	4.36E-03	1.07E-02	pCi/m3	U
2233	706986001	12/24/2024	Radium-228	-1.55E-03	1.44E-03	4.49E-03	pCi/m3	U
2233	657104010	1/24/2024	Ruthenium-103	3.95E-06	3.44E-04	1.15E-03	pCi/m3	U
2233	659797002	2/20/2024	Ruthenium-103	-2.99E-04	3.24E-04	1.00E-03	pCi/m3	U
2233	664161002	3/19/2024	Ruthenium-103	1.27E-05	3.71E-04	1.25E-03	pCi/m3	U
2233	669419001	4/16/2024	Ruthenium-103	-5.26E-04	4.37E-04	1.28E-03	pCi/m3	U
2233	674392003	5/13/2024	Ruthenium-103	3.83E-04	4.85E-04	1.69E-03	pCi/m3	U
2233	676203003	6/11/2024	Ruthenium-103	4.90E-04	4.76E-04	1.69E-03	pCi/m3	U
2233	682054007	7/8/2024	Ruthenium-103	5.42E-04	5.47E-04	1.81E-03	pCi/m3	U
2233	691730008	8/6/2024	Ruthenium-103	4.39E-04	1.34E-03	4.56E-03	pCi/m3	U
2233	691734005	8/27/2024	Ruthenium-103	7.42E-05	7.69E-04	2.54E-03	pCi/m3	U
2233	695577006	10/1/2024	Ruthenium-103	-7.94E-04	4.62E-04	1.27E-03	pCi/m3	U
2233	702719011	10/28/2024	Ruthenium-103	1.60E-04	6.77E-04	2.29E-03	pCi/m3	U
2233	703169001	11/25/2024	Ruthenium-103	-7.45E-04	9.44E-04	2.80E-03	pCi/m3	U
2233	706986001	12/24/2024	Ruthenium-103	7.85E-04	5.14E-04	1.89E-03	pCi/m3	U
2233	657104010	1/24/2024	Ruthenium-106	-3.71E-03	2.31E-03	6.68E-03	pCi/m3	U
2233	659797002	2/20/2024	Ruthenium-106	4.13E-03	2.02E-03	7.61E-03	pCi/m3	U
2233	664161002	3/19/2024	Ruthenium-106	8.66E-05	1.71E-03	5.67E-03	pCi/m3	U
2233	669419001	4/16/2024	Ruthenium-106	-7.89E-04	1.80E-03	5.45E-03	pCi/m3	U
2233	674392003	5/13/2024	Ruthenium-106	-2.14E-03	1.84E-03	5.22E-03	pCi/m3	U
2233	676203003	6/11/2024	Ruthenium-106	-1.93E-03	2.80E-03	7.32E-03	pCi/m3	U
2233	682054007	7/8/2024	Ruthenium-106	-4.26E-04	2.69E-03	8.53E-03	pCi/m3	U
2233	691730008	8/6/2024	Ruthenium-106	7.92E-04	3.82E-03	1.27E-02	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	691734005	8/27/2024	Ruthenium-106	-1.67E-03	2.82E-03	8.49E-03	pCi/m3	U
2233	695577006	10/1/2024	Ruthenium-106	-1.30E-03	2.24E-03	6.84E-03	pCi/m3	U
2233	702719011	10/28/2024	Ruthenium-106	1.54E-03	2.10E-03	7.30E-03	pCi/m3	U
2233	703169001	11/25/2024	Ruthenium-106	4.68E-03	4.81E-03	1.74E-02	pCi/m3	U
2233	706986001	12/24/2024	Ruthenium-106	3.76E-03	3.04E-03	1.07E-02	pCi/m3	U
2233	657104010	1/24/2024	Selenium-75	-1.30E-04	3.31E-04	1.02E-03	pCi/m3	U
2233	659797002	2/20/2024	Selenium-75	1.64E-04	2.57E-04	9.09E-04	pCi/m3	U
2233	664161002	3/19/2024	Selenium-75	3.63E-05	3.01E-04	9.51E-04	pCi/m3	U
2233	669419001	4/16/2024	Selenium-75	-2.98E-04	2.91E-04	8.40E-04	pCi/m3	U
2233	674392003	5/13/2024	Selenium-75	-1.27E-04	2.70E-04	8.95E-04	pCi/m3	U
2233	676203003	6/11/2024	Selenium-75	2.09E-04	3.12E-04	1.02E-03	pCi/m3	U
2233	682054007	7/8/2024	Selenium-75	-3.02E-05	3.09E-04	9.52E-04	pCi/m3	U
2233	691730008	8/6/2024	Selenium-75	-2.69E-04	5.14E-04	1.55E-03	pCi/m3	U
2233	691734005	8/27/2024	Selenium-75	-2.99E-04	4.48E-04	1.33E-03	pCi/m3	U
2233	695577006	10/1/2024	Selenium-75	3.40E-05	3.20E-04	1.10E-03	pCi/m3	U
2233	702719011	10/28/2024	Selenium-75	-5.01E-04	3.20E-04	9.02E-04	pCi/m3	U
2233	703169001	11/25/2024	Selenium-75	5.10E-04	6.39E-04	2.19E-03	pCi/m3	U
2233	706986001	12/24/2024	Selenium-75	4.06E-04	3.69E-04	1.30E-03	pCi/m3	U
2233	657104010	1/24/2024	Silver-108m	-6.44E-04	2.34E-04	6.20E-04	pCi/m3	U
2233	659797002	2/20/2024	Silver-108m	-4.69E-05	1.58E-04	5.16E-04	pCi/m3	U
2233	664161002	3/19/2024	Silver-108m	-1.90E-04	2.22E-04	7.11E-04	pCi/m3	U
2233	669419001	4/16/2024	Silver-108m	1.14E-04	1.50E-04	5.27E-04	pCi/m3	U
2233	674392003	5/13/2024	Silver-108m	-1.15E-04	1.58E-04	4.93E-04	pCi/m3	U
2233	676203003	6/11/2024	Silver-108m	-3.35E-04	2.40E-04	6.57E-04	pCi/m3	U
2233	682054007	7/8/2024	Silver-108m	-2.92E-04	2.23E-04	6.69E-04	pCi/m3	U
2233	691730008	8/6/2024	Silver-108m	1.17E-03	4.57E-04	1.17E-03	pCi/m3	UI
2233	691734005	8/27/2024	Silver-108m	1.97E-04	2.22E-04	7.22E-04	pCi/m3	U
2233	695577006	10/1/2024	Silver-108m	8.05E-06	1.97E-04	6.54E-04	pCi/m3	U
2233	702719011	10/28/2024	Silver-108m	-1.83E-04	1.58E-04	4.85E-04	pCi/m3	U
2233	703169001	11/25/2024	Silver-108m	-3.11E-04	3.91E-04	1.18E-03	pCi/m3	U
2233	706986001	12/24/2024	Silver-108m	2.80E-05	2.28E-04	7.54E-04	pCi/m3	U
2233	657104010	1/24/2024	Silver-110m	-1.67E-04	3.62E-04	1.11E-03	pCi/m3	U
2233	659797002	2/20/2024	Silver-110m	5.74E-05	3.53E-04	1.14E-03	pCi/m3	U
2233	664161002	3/19/2024	Silver-110m	-2.56E-04	3.78E-04	1.13E-03	pCi/m3	U
2233	669419001	4/16/2024	Silver-110m	3.56E-05	3.02E-04	1.02E-03	pCi/m3	U
2233	674392003	5/13/2024	Silver-110m	-7.48E-04	3.48E-04	9.25E-04	pCi/m3	U
2233	676203003	6/11/2024	Silver-110m	1.39E-04	3.70E-04	1.24E-03	pCi/m3	U
2233	682054007	7/8/2024	Silver-110m	7.16E-04	3.37E-04	1.54E-03	pCi/m3	U
2233	691730008	8/6/2024	Silver-110m	-1.54E-03	7.23E-04	1.96E-03	pCi/m3	U
2233	691734005	8/27/2024	Silver-110m	-3.02E-04	4.19E-04	1.27E-03	pCi/m3	U
2233	695577006	10/1/2024	Silver-110m	9.82E-05	4.40E-04	1.52E-03	pCi/m3	U
2233	702719011	10/28/2024	Silver-110m	-6.52E-04	4.98E-04	1.29E-03	pCi/m3	U
2233	703169001	11/25/2024	Silver-110m	-2.01E-04	7.58E-04	2.45E-03	pCi/m3	U
2233	706986001	12/24/2024	Silver-110m	4.20E-04	4.52E-04	1.66E-03	pCi/m3	U
2233	657104010	1/24/2024	Tellurium-132	1.86E-01	4.13E-01	0.00E+00	pCi/m3	UI
2233	659797002	2/20/2024	Tellurium-132	-4.26E-02	1.60E-01	0.00E+00	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	664161002	3/19/2024	Tellurium-132	-2.03E-01	4.58E-01	0.00E+00	pCi/m3	U
2233	669419001	4/16/2024	Tellurium-132	-1.06E+01	8.80E+00	0.00E+00	pCi/m3	U
2233	674392003	5/13/2024	Tellurium-132	4.31E+01	7.69E+01	0.00E+00	pCi/m3	UI
2233	676203003	6/11/2024	Tellurium-132	2.96E+00	1.90E+00	0.00E+00	pCi/m3	UI
2233	682054007	7/8/2024	Tellurium-132	-2.65E+01	2.23E+01	0.00E+00	pCi/m3	U
2233	691730008	8/6/2024	Tellurium-132	4.02E+04	3.09E+04	0.00E+00	pCi/m3	UI
2233	691734005	8/27/2024	Tellurium-132	-9.50E+01	3.04E+02	0.00E+00	pCi/m3	U
2233	695577006	10/1/2024	Tellurium-132	6.51E+00	9.58E+00	0.00E+00	pCi/m3	UI
2233	702719011	10/28/2024	Tellurium-132	-4.67E+02	1.02E+03	0.00E+00	pCi/m3	U
2233	703169001	11/25/2024	Tellurium-132	-6.17E+00	8.47E+00	0.00E+00	pCi/m3	U
2233	706986001	12/24/2024	Tellurium-132	5.72E+00	5.02E+00	0.00E+00	pCi/m3	UI
2233	657104010	1/24/2024	Thallium-208	-2.32E-04	2.99E-04	9.53E-04	pCi/m3	U
2233	659797002	2/20/2024	Thallium-208	1.33E-04	3.39E-04	5.57E-04	pCi/m3	U
2233	664161002	3/19/2024	Thallium-208	1.22E-04	3.06E-04	9.67E-04	pCi/m3	U
2233	669419001	4/16/2024	Thallium-208	2.47E-05	2.29E-04	7.44E-04	pCi/m3	U
2233	674392003	5/13/2024	Thallium-208	1.62E-04	3.53E-04	5.96E-04	pCi/m3	U
2233	676203003	6/11/2024	Thallium-208	-1.07E-04	2.85E-04	9.12E-04	pCi/m3	U
2233	682054007	7/8/2024	Thallium-208	4.77E-04	3.42E-04	5.88E-04	pCi/m3	U
2233	691730008	8/6/2024	Thallium-208	4.47E-04	6.22E-04	1.43E-03	pCi/m3	U
2233	691734005	8/27/2024	Thallium-208	8.68E-04	5.29E-04	9.67E-04	pCi/m3	U
2233	695577006	10/1/2024	Thallium-208	2.58E-04	3.76E-04	6.52E-04	pCi/m3	U
2233	702719011	10/28/2024	Thallium-208	7.93E-04	4.41E-04	7.76E-04	pCi/m3	UI
2233	703169001	11/25/2024	Thallium-208	1.51E-03	9.60E-04	1.61E-03	pCi/m3	U
2233	706986001	12/24/2024	Thallium-208	3.32E-04	4.88E-04	7.84E-04	pCi/m3	U
2233	657104010	1/24/2024	Thorium-228	1.83E-04	5.39E-04	1.03E-03	pCi/m3	U
2233	659797002	2/20/2024	Thorium-228	8.04E-05	6.27E-04	1.13E-03	pCi/m3	U
2233	664161002	3/19/2024	Thorium-228	5.69E-04	6.40E-04	1.09E-03	pCi/m3	U
2233	669419001	4/16/2024	Thorium-228	1.04E-03	5.10E-04	1.26E-03	pCi/m3	U
2233	674392003	5/13/2024	Thorium-228	3.02E-05	4.64E-04	1.06E-03	pCi/m3	U
2233	676203003	6/11/2024	Thorium-228	1.82E-03	8.88E-04	1.19E-03	pCi/m3	UI
2233	682054007	7/8/2024	Thorium-228	1.68E-03	6.06E-04	1.76E-03	pCi/m3	U
2233	691730008	8/6/2024	Thorium-228	2.93E-03	7.39E-04	1.28E-03	pCi/m3	U
2233	691734005	8/27/2024	Thorium-228	1.86E-04	6.83E-04	1.58E-03	pCi/m3	U
2233	695577006	10/1/2024	Thorium-228	1.76E-03	5.49E-04	1.65E-03	pCi/m3	UI
2233	702719011	10/28/2024	Thorium-228	8.21E-04	5.18E-04	8.31E-04	pCi/m3	U
2233	703169001	11/25/2024	Thorium-228	2.42E-04	1.43E-03	2.82E-03	pCi/m3	U
2233	706986001	12/24/2024	Thorium-228	9.32E-04	6.71E-04	1.79E-03	pCi/m3	U
2233	657104010	1/24/2024	Thorium-230	4.74E-05	5.71E-04	1.66E-03	pCi/m3	U
2233	659797002	2/20/2024	Thorium-230	1.48E-04	4.81E-04	1.60E-03	pCi/m3	U
2233	664161002	3/19/2024	Thorium-230	1.94E-04	5.23E-04	1.68E-03	pCi/m3	U
2233	669419001	4/16/2024	Thorium-230	9.16E-04	7.22E-04	1.43E-03	pCi/m3	U
2233	674392003	5/13/2024	Thorium-230	4.37E-04	4.52E-04	1.56E-03	pCi/m3	U
2233	676203003	6/11/2024	Thorium-230	7.79E-04	5.41E-04	1.86E-03	pCi/m3	U
2233	682054007	7/8/2024	Thorium-230	1.96E-03	6.36E-04	2.35E-03	pCi/m3	U
2233	691730008	8/6/2024	Thorium-230	1.93E-03	1.03E-03	2.06E-03	pCi/m3	U
2233	691734005	8/27/2024	Thorium-230	2.08E-03	7.88E-04	2.17E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	695577006	10/1/2024	Thorium-230	2.48E-03	9.49E-04	2.37E-03	pCi/m3	UI
2233	702719011	10/28/2024	Thorium-230	6.98E-04	7.40E-04	1.17E-03	pCi/m3	U
2233	703169001	11/25/2024	Thorium-230	-2.01E-03	1.09E-03	3.19E-03	pCi/m3	U
2233	706986001	12/24/2024	Thorium-230	1.37E-04	6.98E-04	2.09E-03	pCi/m3	U
2233	657104010	1/24/2024	Thorium-232	-8.02E-04	1.34E-03	4.23E-03	pCi/m3	U
2233	659797002	2/20/2024	Thorium-232	6.50E-05	1.13E-03	3.62E-03	pCi/m3	U
2233	664161002	3/19/2024	Thorium-232	1.41E-03	1.25E-03	3.41E-03	pCi/m3	U
2233	669419001	4/16/2024	Thorium-232	1.01E-03	9.31E-04	3.24E-03	pCi/m3	U
2233	674392003	5/13/2024	Thorium-232	1.46E-03	2.06E-03	3.93E-03	pCi/m3	U
2233	676203003	6/11/2024	Thorium-232	4.40E-04	1.27E-03	4.24E-03	pCi/m3	U
2233	682054007	7/8/2024	Thorium-232	-1.60E-03	1.49E-03	4.20E-03	pCi/m3	U
2233	691730008	8/6/2024	Thorium-232	7.39E-04	1.60E-03	5.66E-03	pCi/m3	U
2233	691734005	8/27/2024	Thorium-232	9.71E-04	2.09E-03	4.97E-03	pCi/m3	U
2233	695577006	10/1/2024	Thorium-232	-1.44E-03	1.19E-03	3.43E-03	pCi/m3	U
2233	702719011	10/28/2024	Thorium-232	-1.35E-04	1.35E-03	4.17E-03	pCi/m3	U
2233	703169001	11/25/2024	Thorium-232	1.17E-03	4.36E-03	1.07E-02	pCi/m3	U
2233	706986001	12/24/2024	Thorium-232	-1.55E-03	1.44E-03	4.49E-03	pCi/m3	U
2233	657104010	1/24/2024	Thorium-234	-3.85E-03	6.81E-03	2.31E-02	pCi/m3	U
2233	659797002	2/20/2024	Thorium-234	1.33E-02	1.06E-02	1.77E-02	pCi/m3	U
2233	664161002	3/19/2024	Thorium-234	-4.67E-03	6.41E-03	1.92E-02	pCi/m3	U
2233	669419001	4/16/2024	Thorium-234	-1.33E-02	7.25E-03	2.23E-02	pCi/m3	U
2233	674392003	5/13/2024	Thorium-234	2.92E-03	7.76E-03	1.98E-02	pCi/m3	U
2233	676203003	6/11/2024	Thorium-234	-6.82E-03	7.35E-03	2.22E-02	pCi/m3	U
2233	682054007	7/8/2024	Thorium-234	1.12E-02	1.35E-02	2.86E-02	pCi/m3	U
2233	691730008	8/6/2024	Thorium-234	-8.31E-03	5.35E-03	2.02E-02	pCi/m3	U
2233	691734005	8/27/2024	Thorium-234	1.64E-02	1.38E-02	2.60E-02	pCi/m3	U
2233	695577006	10/1/2024	Thorium-234	2.85E-02	1.18E-02	1.27E-02	pCi/m3	UI
2233	702719011	10/28/2024	Thorium-234	4.28E-04	4.91E-03	6.05E-03	pCi/m3	U
2233	703169001	11/25/2024	Thorium-234	-1.48E-02	6.18E-03	2.09E-02	pCi/m3	U
2233	706986001	12/24/2024	Thorium-234	-2.44E-04	1.14E-02	3.54E-02	pCi/m3	U
2233	657104010	1/24/2024	Uranium-234	4.74E-05	5.71E-04	1.66E-03	pCi/m3	U
2233	659797002	2/20/2024	Uranium-234	1.48E-04	4.81E-04	1.60E-03	pCi/m3	U
2233	664161002	3/19/2024	Uranium-234	1.94E-04	5.23E-04	1.68E-03	pCi/m3	U
2233	669419001	4/16/2024	Uranium-234	9.16E-04	7.22E-04	1.43E-03	pCi/m3	U
2233	674392003	5/13/2024	Uranium-234	4.37E-04	4.52E-04	1.56E-03	pCi/m3	U
2233	676203003	6/11/2024	Uranium-234	7.79E-04	5.41E-04	1.86E-03	pCi/m3	U
2233	682054007	7/8/2024	Uranium-234	1.96E-03	6.36E-04	2.35E-03	pCi/m3	U
2233	691730008	8/6/2024	Uranium-234	1.93E-03	1.03E-03	2.06E-03	pCi/m3	U
2233	691734005	8/27/2024	Uranium-234	2.08E-03	7.88E-04	2.17E-03	pCi/m3	U
2233	695577006	10/1/2024	Uranium-234	2.48E-03	9.49E-04	2.37E-03	pCi/m3	UI
2233	702719011	10/28/2024	Uranium-234	6.98E-04	7.40E-04	1.17E-03	pCi/m3	U
2233	703169001	11/25/2024	Uranium-234	-2.01E-03	1.09E-03	3.19E-03	pCi/m3	U
2233	706986001	12/24/2024	Uranium-234	1.37E-04	6.98E-04	2.09E-03	pCi/m3	U
2233	657104010	1/24/2024	Zinc-65	-1.94E-04	5.53E-04	1.56E-03	pCi/m3	U
2233	659797002	2/20/2024	Zinc-65	4.82E-04	6.33E-04	2.26E-03	pCi/m3	U
2233	664161002	3/19/2024	Zinc-65	-3.31E-04	4.52E-04	1.39E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	669419001	4/16/2024	Zinc-65	-4.63E-04	6.82E-04	2.04E-03	pCi/m3	U
2233	674392003	5/13/2024	Zinc-65	-9.83E-04	5.51E-04	1.43E-03	pCi/m3	U
2233	676203003	6/11/2024	Zinc-65	4.39E-04	6.34E-04	2.29E-03	pCi/m3	U
2233	682054007	7/8/2024	Zinc-65	-7.09E-05	6.71E-04	2.17E-03	pCi/m3	U
2233	691730008	8/6/2024	Zinc-65	4.85E-04	1.18E-03	4.10E-03	pCi/m3	U
2233	691734005	8/27/2024	Zinc-65	1.07E-03	8.86E-04	3.25E-03	pCi/m3	U
2233	695577006	10/1/2024	Zinc-65	-2.31E-04	6.09E-04	1.94E-03	pCi/m3	U
2233	702719011	10/28/2024	Zinc-65	3.25E-05	7.76E-04	2.59E-03	pCi/m3	U
2233	703169001	11/25/2024	Zinc-65	7.50E-04	1.23E-03	4.32E-03	pCi/m3	U
2233	706986001	12/24/2024	Zinc-65	5.69E-04	6.02E-04	2.25E-03	pCi/m3	U
2233	657104010	1/24/2024	Zirconium-95	8.71E-05	6.04E-04	1.99E-03	pCi/m3	U
2233	659797002	2/20/2024	Zirconium-95	3.19E-04	4.38E-04	1.53E-03	pCi/m3	U
2233	664161002	3/19/2024	Zirconium-95	5.55E-04	6.68E-04	2.31E-03	pCi/m3	U
2233	669419001	4/16/2024	Zirconium-95	-1.36E-04	6.83E-04	1.97E-03	pCi/m3	U
2233	674392003	5/13/2024	Zirconium-95	4.07E-04	7.41E-04	2.49E-03	pCi/m3	U
2233	676203003	6/11/2024	Zirconium-95	7.84E-04	5.54E-04	2.07E-03	pCi/m3	U
2233	682054007	7/8/2024	Zirconium-95	-5.43E-04	8.15E-04	2.60E-03	pCi/m3	U
2233	691730008	8/6/2024	Zirconium-95	1.25E-03	3.36E-03	5.91E-03	pCi/m3	U
2233	691734005	8/27/2024	Zirconium-95	-5.93E-04	8.50E-04	2.64E-03	pCi/m3	U
2233	695577006	10/1/2024	Zirconium-95	3.64E-04	6.50E-04	2.21E-03	pCi/m3	U
2233	702719011	10/28/2024	Zirconium-95	1.02E-03	1.04E-03	3.59E-03	pCi/m3	U
2233	703169001	11/25/2024	Zirconium-95	-1.41E-03	1.41E-03	4.30E-03	pCi/m3	U
2233	706986001	12/24/2024	Zirconium-95	4.77E-04	9.07E-04	3.03E-03	pCi/m3	U
2234	657104011	1/24/2024	Actinium-228	1.69E-03	1.19E-03	4.04E-03	pCi/m3	U
2234	659797001	2/20/2024	Actinium-228	1.90E-03	1.78E-03	4.47E-03	pCi/m3	U
2234	664161001	3/19/2024	Actinium-228	-1.68E-03	1.17E-03	3.68E-03	pCi/m3	U
2234	669419004	4/16/2024	Actinium-228	1.41E-03	1.28E-03	3.82E-03	pCi/m3	U
2234	674392002	5/14/2024	Actinium-228	-2.17E-03	1.12E-03	3.16E-03	pCi/m3	U
2234	676203002	6/11/2024	Actinium-228	6.54E-04	1.24E-03	3.70E-03	pCi/m3	U
2234	682054006	7/9/2024	Actinium-228	6.25E-04	1.01E-03	3.64E-03	pCi/m3	U
2234	691730003	8/5/2024	Actinium-228	-1.08E-03	1.40E-03	4.48E-03	pCi/m3	U
2234	691734008	8/27/2024	Actinium-228	-4.53E-04	2.03E-03	6.47E-03	pCi/m3	U
2234	695577005	10/1/2024	Actinium-228	4.32E-04	1.52E-03	4.29E-03	pCi/m3	U
2234	702719005	10/28/2024	Actinium-228	1.09E-03	1.23E-03	4.42E-03	pCi/m3	U
2234	703169006	11/26/2024	Actinium-228	4.69E-04	1.12E-03	3.48E-03	pCi/m3	U
2234	706986011	12/25/2024	Actinium-228	2.45E-03	1.52E-03	4.33E-03	pCi/m3	U
2234	657104011	1/24/2024	Americium-241	-6.26E-04	7.12E-04	2.39E-03	pCi/m3	U
2234	659797001	2/20/2024	Americium-241	4.43E-04	8.17E-04	2.88E-03	pCi/m3	U
2234	664161001	3/19/2024	Americium-241	-6.13E-05	1.02E-03	3.42E-03	pCi/m3	U
2234	669419004	4/16/2024	Americium-241	1.51E-03	1.50E-03	4.53E-03	pCi/m3	U
2234	674392002	5/14/2024	Americium-241	2.47E-03	1.00E-03	1.92E-03	pCi/m3	UI
2234	676203002	6/11/2024	Americium-241	4.66E-04	7.31E-04	2.44E-03	pCi/m3	U
2234	682054006	7/9/2024	Americium-241	9.20E-05	3.45E-04	1.09E-03	pCi/m3	U
2234	691730003	8/5/2024	Americium-241	4.50E-04	1.01E-03	3.38E-03	pCi/m3	U
2234	691734008	8/27/2024	Americium-241	-3.67E-04	3.29E-04	9.55E-04	pCi/m3	U
2234	695577005	10/1/2024	Americium-241	-6.16E-04	6.88E-04	2.02E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	702719005	10/28/2024	Americium-241	-4.75E-05	7.86E-04	2.57E-03	pCi/m3	U
2234	703169006	11/26/2024	Americium-241	1.66E-03	1.33E-03	4.45E-03	pCi/m3	U
2234	706986011	12/25/2024	Americium-241	-2.90E-05	1.12E-03	3.60E-03	pCi/m3	U
2234	657104011	1/24/2024	Antimony-124	1.50E-04	6.73E-04	2.06E-03	pCi/m3	U
2234	659797001	2/20/2024	Antimony-124	1.69E-03	8.05E-04	3.40E-03	pCi/m3	U
2234	664161001	3/19/2024	Antimony-124	1.59E-03	9.68E-04	3.60E-03	pCi/m3	U
2234	669419004	4/16/2024	Antimony-124	-1.29E-04	1.16E-03	3.75E-03	pCi/m3	U
2234	674392002	5/14/2024	Antimony-124	-5.84E-04	9.52E-04	2.68E-03	pCi/m3	U
2234	676203002	6/11/2024	Antimony-124	-1.48E-03	8.39E-04	1.95E-03	pCi/m3	U
2234	682054006	7/9/2024	Antimony-124	1.55E-03	8.01E-04	3.38E-03	pCi/m3	U
2234	691730003	8/5/2024	Antimony-124	1.04E-03	2.07E-03	7.29E-03	pCi/m3	U
2234	691734008	8/27/2024	Antimony-124	3.31E-03	1.91E-03	8.00E-03	pCi/m3	U
2234	695577005	10/1/2024	Antimony-124	-1.75E-04	7.26E-04	2.26E-03	pCi/m3	U
2234	702719005	10/28/2024	Antimony-124	2.55E-03	1.72E-03	6.81E-03	pCi/m3	U
2234	703169006	11/26/2024	Antimony-124	1.05E-03	7.95E-04	3.29E-03	pCi/m3	U
2234	706986011	12/25/2024	Antimony-124	-1.09E-03	1.13E-03	3.10E-03	pCi/m3	U
2234	657104011	1/24/2024	Antimony-125	-4.39E-05	4.91E-04	1.62E-03	pCi/m3	U
2234	659797001	2/20/2024	Antimony-125	9.75E-04	6.36E-04	2.29E-03	pCi/m3	U
2234	664161001	3/19/2024	Antimony-125	3.47E-04	5.18E-04	1.81E-03	pCi/m3	U
2234	669419004	4/16/2024	Antimony-125	4.63E-04	6.07E-04	2.10E-03	pCi/m3	U
2234	674392002	5/14/2024	Antimony-125	-5.86E-04	4.75E-04	1.47E-03	pCi/m3	U
2234	676203002	6/11/2024	Antimony-125	-9.73E-05	4.90E-04	1.61E-03	pCi/m3	U
2234	682054006	7/9/2024	Antimony-125	1.60E-04	4.96E-04	1.67E-03	pCi/m3	U
2234	691730003	8/5/2024	Antimony-125	-1.61E-04	6.24E-04	1.94E-03	pCi/m3	U
2234	691734008	8/27/2024	Antimony-125	-8.70E-04	1.03E-03	3.09E-03	pCi/m3	U
2234	695577005	10/1/2024	Antimony-125	-1.24E-03	6.40E-04	1.85E-03	pCi/m3	U
2234	702719005	10/28/2024	Antimony-125	5.04E-04	6.11E-04	2.15E-03	pCi/m3	U
2234	703169006	11/26/2024	Antimony-125	-1.99E-04	6.00E-04	1.97E-03	pCi/m3	U
2234	706986011	12/25/2024	Antimony-125	3.46E-04	5.01E-04	1.69E-03	pCi/m3	U
2234	657104011	1/24/2024	Barium-140	1.21E-02	5.82E-03	1.67E-02	pCi/m3	U
2234	659797001	2/20/2024	Barium-140	-1.25E-03	4.89E-03	1.41E-02	pCi/m3	U
2234	664161001	3/19/2024	Barium-140	2.97E-04	4.71E-03	1.56E-02	pCi/m3	U
2234	669419004	4/16/2024	Barium-140	-3.03E-02	1.37E-02	3.72E-02	pCi/m3	U
2234	674392002	5/14/2024	Barium-140	5.91E-03	1.74E-02	5.94E-02	pCi/m3	U
2234	676203002	6/11/2024	Barium-140	-2.51E-03	7.10E-03	2.25E-02	pCi/m3	U
2234	682054006	7/9/2024	Barium-140	1.37E-02	1.04E-02	3.72E-02	pCi/m3	U
2234	691730003	8/5/2024	Barium-140	-8.16E-02	8.51E-02	2.57E-01	pCi/m3	U
2234	691734008	8/27/2024	Barium-140	-6.36E-03	5.04E-02	1.59E-01	pCi/m3	U
2234	695577005	10/1/2024	Barium-140	4.58E-03	1.16E-02	3.96E-02	pCi/m3	U
2234	702719005	10/28/2024	Barium-140	3.75E-02	6.59E-02	1.63E-01	pCi/m3	U
2234	703169006	11/26/2024	Barium-140	1.10E-04	1.02E-02	3.38E-02	pCi/m3	U
2234	706986011	12/25/2024	Barium-140	1.52E-02	8.58E-03	3.26E-02	pCi/m3	U
2234	657104011	1/24/2024	Beryllium-7	6.02E-02	6.95E-03	8.13E-03	pCi/m3	U
2234	659797001	2/20/2024	Beryllium-7	8.07E-02	7.64E-03	9.30E-03	pCi/m3	U
2234	664161001	3/19/2024	Beryllium-7	8.74E-02	7.26E-03	7.37E-03	pCi/m3	U
2234	669419004	4/16/2024	Beryllium-7	1.02E-01	7.79E-03	1.13E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	674392002	5/14/2024	Beryllium-7	1.14E-01	8.00E-03	8.89E-03	pCi/m3	
2234	676203002	6/11/2024	Beryllium-7	1.04E-01	8.36E-03	9.15E-03	pCi/m3	
2234	682054006	7/9/2024	Beryllium-7	9.86E-02	8.36E-03	9.68E-03	pCi/m3	
2234	691730003	8/5/2024	Beryllium-7	9.49E-02	1.93E-02	1.96E-02	pCi/m3	
2234	691734008	8/27/2024	Beryllium-7	1.43E-01	1.44E-02	1.72E-02	pCi/m3	
2234	695577005	10/1/2024	Beryllium-7	9.66E-02	8.66E-03	1.00E-02	pCi/m3	
2234	702719005	10/28/2024	Beryllium-7	1.18E-01	1.17E-02	1.80E-02	pCi/m3	
2234	703169006	11/26/2024	Beryllium-7	5.90E-02	7.73E-03	1.09E-02	pCi/m3	
2234	706986011	12/25/2024	Beryllium-7	7.36E-02	8.50E-03	9.40E-03	pCi/m3	
2234	650210011	1/2/2024	BETA	3.62E-02	1.61E-03	1.30E-03	pCi/m3	
2234	650994007	1/8/2024	BETA	4.05E-02	1.68E-03	1.31E-03	pCi/m3	
2234	651848005	1/17/2024	BETA	3.85E-02	1.37E-03	8.82E-04	pCi/m3	
2234	652268025	1/24/2024	BETA	3.26E-02	1.49E-03	1.23E-03	pCi/m3	
2234	653178015	1/29/2024	BETA	1.76E-02	1.33E-03	1.63E-03	pCi/m3	
2234	654187005	2/6/2024	BETA	3.78E-02	1.39E-03	9.23E-04	pCi/m3	
2234	655008019	2/13/2024	BETA	2.36E-02	1.36E-03	1.34E-03	pCi/m3	
2234	655819001	2/20/2024	BETA	3.23E-02	1.47E-03	1.15E-03	pCi/m3	
2234	656511023	2/27/2024	BETA	3.20E-02	1.50E-03	1.27E-03	pCi/m3	
2234	657416021	3/4/2024	BETA	2.52E-02	1.37E-03	1.32E-03	pCi/m3	
2234	658450019	3/12/2024	BETA	2.00E-02	1.10E-03	1.10E-03	pCi/m3	
2234	659313001	3/19/2024	BETA	2.82E-02	1.35E-03	1.17E-03	pCi/m3	
2234	660083017	3/27/2024	BETA	2.63E-02	1.25E-03	1.00E-03	pCi/m3	
2234	660793022	4/2/2024	BETA	3.38E-02	1.55E-03	1.28E-03	pCi/m3	
2234	662052021	4/9/2024	BETA	1.95E-02	1.12E-03	1.10E-03	pCi/m3	
2234	662074013	4/16/2024	BETA	2.31E-02	1.17E-03	9.82E-04	pCi/m3	
2234	664092001	4/22/2024	BETA	2.74E-02	1.37E-03	1.18E-03	pCi/m3	
2234	665204017	4/30/2024	BETA	2.70E-02	1.19E-03	9.43E-04	pCi/m3	
2234	666121003	5/6/2024	BETA	2.56E-02	1.34E-03	1.17E-03	pCi/m3	
2234	667159003	5/14/2024	BETA	1.42E-02	8.94E-04	9.19E-04	pCi/m3	
2234	668220010	5/20/2024	BETA	2.22E-02	1.27E-03	1.25E-03	pCi/m3	
2234	669062015	5/28/2024	BETA	2.57E-02	1.18E-03	9.13E-04	pCi/m3	
2234	669755019	6/4/2024	BETA	2.31E-02	1.21E-03	1.14E-03	pCi/m3	
2234	670837003	6/11/2024	BETA	1.61E-02	9.23E-04	9.54E-04	pCi/m3	
2234	671897023	6/18/2024	BETA	3.61E-02	1.50E-03	1.17E-03	pCi/m3	
2234	672773007	6/25/2024	BETA	2.39E-02	1.20E-03	1.09E-03	pCi/m3	
2234	673676007	7/2/2024	BETA	3.03E-02	1.36E-03	1.13E-03	pCi/m3	
2234	674336011	7/9/2024	BETA	2.64E-02	1.27E-03	1.03E-03	pCi/m3	
2234	675686013	7/15/2024	BETA	3.57E-02	1.64E-03	1.35E-03	pCi/m3	
2234	676802001	7/22/2024	BETA	2.44E-02	1.22E-03	1.12E-03	pCi/m3	
2234	677970005	7/30/2024	BETA	2.61E-02	1.19E-03	9.32E-04	pCi/m3	
2234	679202005	8/5/2024	BETA	2.48E-02	1.70E-03	2.36E-03	pCi/m3	
2234	680237021	8/13/2024	BETA	3.44E-02	1.65E-03	1.42E-03	pCi/m3	
2234	681488003	8/19/2024	BETA	3.77E-02	1.66E-03	1.20E-03	pCi/m3	
2234	682604015	8/27/2024	BETA	3.93E-02	1.41E-03	9.62E-04	pCi/m3	
2234	683692009	9/4/2024	BETA	3.43E-02	1.38E-03	1.02E-03	pCi/m3	
2234	684664021	9/10/2024	BETA	3.02E-02	1.44E-03	1.20E-03	pCi/m3	

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	685842007	9/17/2024	BETA	3.42E-02	2.91E-03	1.17E-03	pCi/m3	
2234	686976021	9/24/2024	BETA	4.26E-02	1.69E-03	1.22E-03	pCi/m3	
2234	687851009	10/1/2024	BETA	2.63E-02	1.32E-03	1.12E-03	pCi/m3	
2234	689079021	10/9/2024	BETA	4.92E-02	1.70E-03	1.10E-03	pCi/m3	
2234	690093011	10/16/2024	BETA	4.67E-02	1.74E-03	1.12E-03	pCi/m3	
2234	691165021	10/22/2024	BETA	4.58E-02	1.88E-03	1.36E-03	pCi/m3	
2234	692327011	10/28/2024	BETA	6.37E-02	2.25E-03	1.53E-03	pCi/m3	
2234	693531021	11/5/2024	BETA	3.77E-02	1.49E-03	1.06E-03	pCi/m3	
2234	694911009	11/12/2024	BETA	3.36E-02	1.51E-03	1.26E-03	pCi/m3	
2234	696166017	11/19/2024	BETA	4.65E-02	1.77E-03	1.18E-03	pCi/m3	
2234	697367011	11/26/2024	BETA	3.82E-02	1.62E-03	1.29E-03	pCi/m3	
2234	698165023	12/2/2024	BETA	5.29E-02	2.04E-03	1.52E-03	pCi/m3	
2234	699433005	12/9/2024	BETA	4.73E-02	1.83E-03	1.31E-03	pCi/m3	
2234	700752005	12/17/2024	BETA	3.61E-02	1.47E-03	1.17E-03	pCi/m3	
2234	701911021	12/25/2024	BETA	3.84E-02	1.53E-03	1.10E-03	pCi/m3	
2234	657104011	1/24/2024	Bismuth-214	1.17E-03	4.61E-04	1.78E-03	pCi/m3	U
2234	659797001	2/20/2024	Bismuth-214	1.34E-03	8.04E-04	1.69E-03	pCi/m3	U
2234	664161001	3/19/2024	Bismuth-214	7.23E-04	9.40E-04	1.74E-03	pCi/m3	U
2234	669419004	4/16/2024	Bismuth-214	7.02E-04	5.48E-04	1.93E-03	pCi/m3	U
2234	674392002	5/14/2024	Bismuth-214	-1.13E-03	4.67E-04	1.24E-03	pCi/m3	U
2234	676203002	6/11/2024	Bismuth-214	-2.01E-04	5.71E-04	1.87E-03	pCi/m3	U
2234	682054006	7/9/2024	Bismuth-214	-6.67E-05	4.87E-04	1.64E-03	pCi/m3	U
2234	691730003	8/5/2024	Bismuth-214	1.33E-03	7.13E-04	2.54E-03	pCi/m3	U
2234	691734008	8/27/2024	Bismuth-214	-1.47E-03	1.03E-03	3.10E-03	pCi/m3	U
2234	695577005	10/1/2024	Bismuth-214	-1.01E-03	6.84E-04	1.73E-03	pCi/m3	U
2234	702719005	10/28/2024	Bismuth-214	2.74E-03	8.33E-04	2.43E-03	pCi/m3	UI
2234	703169006	11/26/2024	Bismuth-214	9.50E-04	9.97E-04	2.28E-03	pCi/m3	U
2234	706986011	12/25/2024	Bismuth-214	-3.76E-04	5.54E-04	1.65E-03	pCi/m3	U
2234	657104011	1/24/2024	Cerium-141	2.88E-05	3.56E-04	1.10E-03	pCi/m3	U
2234	659797001	2/20/2024	Cerium-141	3.77E-04	4.82E-04	1.63E-03	pCi/m3	U
2234	664161001	3/19/2024	Cerium-141	-3.61E-04	5.40E-04	1.63E-03	pCi/m3	U
2234	669419004	4/16/2024	Cerium-141	7.54E-04	8.75E-04	2.76E-03	pCi/m3	U
2234	674392002	5/14/2024	Cerium-141	-1.82E-03	8.36E-04	2.28E-03	pCi/m3	U
2234	676203002	6/11/2024	Cerium-141	-9.66E-04	6.82E-04	1.79E-03	pCi/m3	U
2234	682054006	7/9/2024	Cerium-141	-4.46E-04	5.85E-04	1.80E-03	pCi/m3	U
2234	691730003	8/5/2024	Cerium-141	4.88E-03	2.83E-03	5.13E-03	pCi/m3	U
2234	691734008	8/27/2024	Cerium-141	2.01E-03	1.45E-03	5.15E-03	pCi/m3	U
2234	695577005	10/1/2024	Cerium-141	2.55E-04	6.37E-04	1.96E-03	pCi/m3	U
2234	702719005	10/28/2024	Cerium-141	-1.94E-03	1.20E-03	3.00E-03	pCi/m3	U
2234	703169006	11/26/2024	Cerium-141	-9.39E-04	7.48E-04	2.25E-03	pCi/m3	U
2234	706986011	12/25/2024	Cerium-141	1.55E-04	6.04E-04	1.78E-03	pCi/m3	U
2234	657104011	1/24/2024	Cerium-144	2.10E-03	7.86E-04	3.02E-03	pCi/m3	U
2234	659797001	2/20/2024	Cerium-144	-2.93E-04	1.00E-03	3.25E-03	pCi/m3	U
2234	664161001	3/19/2024	Cerium-144	7.62E-04	1.07E-03	3.49E-03	pCi/m3	U
2234	669419004	4/16/2024	Cerium-144	3.57E-04	1.17E-03	4.03E-03	pCi/m3	U
2234	674392002	5/14/2024	Cerium-144	-2.15E-04	9.26E-04	2.97E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	676203002	6/11/2024	Cerium-144	-5.33E-04	9.51E-04	3.05E-03	pCi/m3	U
2234	682054006	7/9/2024	Cerium-144	4.63E-04	8.51E-04	2.82E-03	pCi/m3	U
2234	691730003	8/5/2024	Cerium-144	1.94E-03	1.78E-03	3.60E-03	pCi/m3	U
2234	691734008	8/27/2024	Cerium-144	1.08E-03	1.62E-03	5.11E-03	pCi/m3	U
2234	695577005	10/1/2024	Cerium-144	-1.83E-03	1.12E-03	3.34E-03	pCi/m3	U
2234	702719005	10/28/2024	Cerium-144	2.34E-04	1.03E-03	3.47E-03	pCi/m3	U
2234	703169006	11/26/2024	Cerium-144	-7.23E-06	1.04E-03	3.37E-03	pCi/m3	U
2234	706986011	12/25/2024	Cerium-144	4.37E-04	1.04E-03	3.17E-03	pCi/m3	U
2234	657104011	1/24/2024	Cesium-134	1.27E-04	2.51E-04	8.83E-04	pCi/m3	U
2234	659797001	2/20/2024	Cesium-134	3.31E-04	2.68E-04	9.89E-04	pCi/m3	U
2234	664161001	3/19/2024	Cesium-134	-4.47E-04	3.00E-04	8.11E-04	pCi/m3	U
2234	669419004	4/16/2024	Cesium-134	5.06E-04	3.90E-04	1.03E-03	pCi/m3	U
2234	674392002	5/14/2024	Cesium-134	-2.95E-04	2.36E-04	6.63E-04	pCi/m3	U
2234	676203002	6/11/2024	Cesium-134	8.10E-06	2.36E-04	7.99E-04	pCi/m3	U
2234	682054006	7/9/2024	Cesium-134	7.52E-04	2.40E-04	9.83E-04	pCi/m3	U
2234	691730003	8/5/2024	Cesium-134	7.75E-04	3.82E-04	1.25E-03	pCi/m3	U
2234	691734008	8/27/2024	Cesium-134	-4.47E-04	6.08E-04	1.83E-03	pCi/m3	U
2234	695577005	10/1/2024	Cesium-134	3.74E-04	2.92E-04	1.05E-03	pCi/m3	U
2234	702719005	10/28/2024	Cesium-134	9.59E-05	3.03E-04	1.05E-03	pCi/m3	U
2234	703169006	11/26/2024	Cesium-134	2.01E-04	2.90E-04	1.00E-03	pCi/m3	U
2234	706986011	12/25/2024	Cesium-134	8.39E-05	2.25E-04	7.56E-04	pCi/m3	U
2234	657104011	1/24/2024	Cesium-137	5.89E-05	2.38E-04	7.77E-04	pCi/m3	U
2234	659797001	2/20/2024	Cesium-137	-4.57E-04	2.76E-04	6.92E-04	pCi/m3	U
2234	664161001	3/19/2024	Cesium-137	1.11E-04	1.89E-04	6.37E-04	pCi/m3	U
2234	669419004	4/16/2024	Cesium-137	-8.11E-05	2.44E-04	7.68E-04	pCi/m3	U
2234	674392002	5/14/2024	Cesium-137	-3.13E-04	2.02E-04	5.68E-04	pCi/m3	U
2234	676203002	6/11/2024	Cesium-137	-7.32E-05	2.10E-04	6.48E-04	pCi/m3	U
2234	682054006	7/9/2024	Cesium-137	-5.37E-05	2.06E-04	6.41E-04	pCi/m3	U
2234	691730003	8/5/2024	Cesium-137	-3.23E-04	2.78E-04	8.03E-04	pCi/m3	U
2234	691734008	8/27/2024	Cesium-137	-5.91E-05	4.06E-04	1.36E-03	pCi/m3	U
2234	695577005	10/1/2024	Cesium-137	-1.06E-04	2.17E-04	6.81E-04	pCi/m3	U
2234	702719005	10/28/2024	Cesium-137	2.33E-04	2.43E-04	8.54E-04	pCi/m3	U
2234	703169006	11/26/2024	Cesium-137	-2.42E-05	1.70E-04	5.44E-04	pCi/m3	U
2234	706986011	12/25/2024	Cesium-137	-1.62E-05	2.08E-04	6.74E-04	pCi/m3	U
2234	657104011	1/24/2024	Chromium-51	-8.49E-04	3.15E-03	1.06E-02	pCi/m3	U
2234	659797001	2/20/2024	Chromium-51	1.30E-03	3.46E-03	1.20E-02	pCi/m3	U
2234	664161001	3/19/2024	Chromium-51	-2.19E-03	3.84E-03	1.21E-02	pCi/m3	U
2234	669419004	4/16/2024	Chromium-51	-6.14E-03	6.16E-03	1.95E-02	pCi/m3	U
2234	674392002	5/14/2024	Chromium-51	-4.39E-03	6.46E-03	2.15E-02	pCi/m3	U
2234	676203002	6/11/2024	Chromium-51	-2.08E-05	4.10E-03	1.39E-02	pCi/m3	U
2234	682054006	7/9/2024	Chromium-51	-4.91E-03	4.71E-03	1.50E-02	pCi/m3	U
2234	691730003	8/5/2024	Chromium-51	2.27E-03	1.44E-02	4.76E-02	pCi/m3	U
2234	691734008	8/27/2024	Chromium-51	-2.66E-03	1.44E-02	4.65E-02	pCi/m3	U
2234	695577005	10/1/2024	Chromium-51	-2.06E-03	5.26E-03	1.77E-02	pCi/m3	U
2234	702719005	10/28/2024	Chromium-51	-6.04E-03	1.03E-02	3.40E-02	pCi/m3	U
2234	703169006	11/26/2024	Chromium-51	3.19E-03	5.13E-03	1.82E-02	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	706986011	12/25/2024	Chromium-51	-4.21E-04	4.39E-03	1.43E-02	pCi/m3	U
2234	657104011	1/24/2024	Cobalt-57	3.94E-05	1.05E-04	3.59E-04	pCi/m3	U
2234	659797001	2/20/2024	Cobalt-57	-3.60E-04	1.35E-04	3.88E-04	pCi/m3	U
2234	664161001	3/19/2024	Cobalt-57	-1.30E-04	1.38E-04	4.16E-04	pCi/m3	U
2234	669419004	4/16/2024	Cobalt-57	-1.39E-04	1.55E-04	5.08E-04	pCi/m3	U
2234	674392002	5/14/2024	Cobalt-57	2.96E-04	2.58E-04	3.85E-04	pCi/m3	U
2234	676203002	6/11/2024	Cobalt-57	1.52E-04	1.64E-04	4.02E-04	pCi/m3	U
2234	682054006	7/9/2024	Cobalt-57	-7.39E-05	1.03E-04	3.20E-04	pCi/m3	U
2234	691730003	8/5/2024	Cobalt-57	-2.52E-05	1.50E-04	4.81E-04	pCi/m3	U
2234	691734008	8/27/2024	Cobalt-57	1.82E-04	1.89E-04	6.66E-04	pCi/m3	U
2234	695577005	10/1/2024	Cobalt-57	7.77E-05	1.35E-04	4.53E-04	pCi/m3	U
2234	702719005	10/28/2024	Cobalt-57	-2.76E-04	1.27E-04	3.62E-04	pCi/m3	U
2234	703169006	11/26/2024	Cobalt-57	-1.21E-04	1.42E-04	4.39E-04	pCi/m3	U
2234	706986011	12/25/2024	Cobalt-57	-9.80E-05	1.05E-04	3.17E-04	pCi/m3	U
2234	657104011	1/24/2024	Cobalt-58	2.15E-04	3.13E-04	1.12E-03	pCi/m3	U
2234	659797001	2/20/2024	Cobalt-58	-2.93E-04	2.82E-04	7.06E-04	pCi/m3	U
2234	664161001	3/19/2024	Cobalt-58	-4.61E-06	3.01E-04	8.75E-04	pCi/m3	U
2234	669419004	4/16/2024	Cobalt-58	-5.11E-04	3.60E-04	9.72E-04	pCi/m3	U
2234	674392002	5/14/2024	Cobalt-58	8.62E-04	3.67E-04	1.43E-03	pCi/m3	U
2234	676203002	6/11/2024	Cobalt-58	5.51E-04	1.65E-04	9.34E-04	pCi/m3	U
2234	682054006	7/9/2024	Cobalt-58	1.03E-04	2.45E-04	8.61E-04	pCi/m3	U
2234	691730003	8/5/2024	Cobalt-58	-3.99E-04	6.99E-04	2.25E-03	pCi/m3	U
2234	691734008	8/27/2024	Cobalt-58	-1.23E-03	8.45E-04	2.45E-03	pCi/m3	U
2234	695577005	10/1/2024	Cobalt-58	-1.43E-04	4.18E-04	1.23E-03	pCi/m3	U
2234	702719005	10/28/2024	Cobalt-58	5.32E-04	4.89E-04	1.81E-03	pCi/m3	U
2234	703169006	11/26/2024	Cobalt-58	-2.22E-04	3.61E-04	1.08E-03	pCi/m3	U
2234	706986011	12/25/2024	Cobalt-58	2.01E-04	3.87E-04	1.36E-03	pCi/m3	U
2234	657104011	1/24/2024	Cobalt-60	1.92E-04	2.81E-04	1.02E-03	pCi/m3	U
2234	659797001	2/20/2024	Cobalt-60	2.78E-04	3.06E-04	1.09E-03	pCi/m3	U
2234	664161001	3/19/2024	Cobalt-60	3.69E-05	2.95E-04	8.58E-04	pCi/m3	U
2234	669419004	4/16/2024	Cobalt-60	-7.31E-04	3.61E-04	5.46E-04	pCi/m3	U
2234	674392002	5/14/2024	Cobalt-60	1.92E-04	2.00E-04	7.58E-04	pCi/m3	U
2234	676203002	6/11/2024	Cobalt-60	-8.17E-05	2.35E-04	7.17E-04	pCi/m3	U
2234	682054006	7/9/2024	Cobalt-60	6.49E-04	2.40E-04	1.01E-03	pCi/m3	U
2234	691730003	8/5/2024	Cobalt-60	-1.06E-04	4.40E-04	1.44E-03	pCi/m3	U
2234	691734008	8/27/2024	Cobalt-60	2.96E-04	6.28E-04	2.23E-03	pCi/m3	U
2234	695577005	10/1/2024	Cobalt-60	1.13E-03	3.82E-04	6.77E-04	pCi/m3	UI
2234	702719005	10/28/2024	Cobalt-60	-1.09E-04	3.23E-04	1.04E-03	pCi/m3	U
2234	703169006	11/26/2024	Cobalt-60	5.03E-05	3.90E-04	1.32E-03	pCi/m3	U
2234	706986011	12/25/2024	Cobalt-60	2.03E-04	2.86E-04	1.04E-03	pCi/m3	U
2234	657104011	1/24/2024	Iron-59	-3.31E-04	6.86E-04	1.70E-03	pCi/m3	U
2234	659797001	2/20/2024	Iron-59	-3.23E-04	7.33E-04	2.28E-03	pCi/m3	U
2234	664161001	3/19/2024	Iron-59	6.47E-04	7.24E-04	2.53E-03	pCi/m3	U
2234	669419004	4/16/2024	Iron-59	5.44E-04	9.60E-04	3.42E-03	pCi/m3	U
2234	674392002	5/14/2024	Iron-59	-1.79E-03	8.97E-04	2.26E-03	pCi/m3	U
2234	676203002	6/11/2024	Iron-59	5.13E-05	8.73E-04	2.53E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	682054006	7/9/2024	Iron-59	8.68E-05	6.52E-04	2.19E-03	pCi/m3	U
2234	691730003	8/5/2024	Iron-59	-1.47E-03	2.14E-03	6.35E-03	pCi/m3	U
2234	691734008	8/27/2024	Iron-59	1.51E-03	2.06E-03	7.33E-03	pCi/m3	U
2234	695577005	10/1/2024	Iron-59	4.52E-04	6.53E-04	2.26E-03	pCi/m3	U
2234	702719005	10/28/2024	Iron-59	2.77E-04	1.79E-03	5.91E-03	pCi/m3	U
2234	703169006	11/26/2024	Iron-59	-1.79E-05	7.21E-04	2.43E-03	pCi/m3	U
2234	706986011	12/25/2024	Iron-59	1.46E-04	7.66E-04	2.58E-03	pCi/m3	U
2234	657104011	1/24/2024	Lanthanum-140	4.74E-04	2.26E-03	7.68E-03	pCi/m3	U
2234	659797001	2/20/2024	Lanthanum-140	-4.67E-03	1.98E-03	4.55E-03	pCi/m3	U
2234	664161001	3/19/2024	Lanthanum-140	-3.92E-04	1.86E-03	5.93E-03	pCi/m3	U
2234	669419004	4/16/2024	Lanthanum-140	6.36E-03	4.47E-03	1.77E-02	pCi/m3	U
2234	674392002	5/14/2024	Lanthanum-140	-5.89E-03	7.12E-03	2.06E-02	pCi/m3	U
2234	676203002	6/11/2024	Lanthanum-140	1.15E-03	2.26E-03	8.14E-03	pCi/m3	U
2234	682054006	7/9/2024	Lanthanum-140	-2.22E-04	3.85E-03	1.29E-02	pCi/m3	U
2234	691730003	8/5/2024	Lanthanum-140	6.74E-02	4.52E-02	1.79E-01	pCi/m3	U
2234	691734008	8/27/2024	Lanthanum-140	-1.63E-02	1.94E-02	5.37E-02	pCi/m3	U
2234	695577005	10/1/2024	Lanthanum-140	-8.03E-03	5.00E-03	1.24E-02	pCi/m3	U
2234	702719005	10/28/2024	Lanthanum-140	1.61E-02	1.87E-02	6.92E-02	pCi/m3	U
2234	703169006	11/26/2024	Lanthanum-140	-4.23E-03	3.68E-03	9.08E-03	pCi/m3	U
2234	706986011	12/25/2024	Lanthanum-140	3.56E-03	3.62E-03	1.37E-02	pCi/m3	U
2234	657104011	1/24/2024	Lead-210	-2.64E-02	3.70E-02	1.01E-01	pCi/m3	U
2234	659797001	2/20/2024	Lead-210	-5.14E-03	2.68E-02	8.54E-02	pCi/m3	U
2234	664161001	3/19/2024	Lead-210	-1.60E-02	5.15E-02	1.62E-01	pCi/m3	U
2234	669419004	4/16/2024	Lead-210	8.72E-02	7.50E-02	1.60E-01	pCi/m3	U
2234	674392002	5/14/2024	Lead-210	4.68E-02	2.99E-02	5.45E-02	pCi/m3	U
2234	676203002	6/11/2024	Lead-210	-2.30E-02	2.53E-02	7.35E-02	pCi/m3	U
2234	682054006	7/9/2024	Lead-210	3.15E-03	1.28E-02	2.17E-02	pCi/m3	U
2234	691730003	8/5/2024	Lead-210	3.88E-02	5.42E-02	1.97E-01	pCi/m3	U
2234	691734008	8/27/2024	Lead-210	1.59E-02	4.72E-03	7.37E-03	pCi/m3	
2234	695577005	10/1/2024	Lead-210	9.68E-03	2.08E-02	6.50E-02	pCi/m3	U
2234	702719005	10/28/2024	Lead-210	1.47E-02	3.94E-02	1.21E-01	pCi/m3	U
2234	703169006	11/26/2024	Lead-210	3.99E-02	6.37E-02	2.03E-01	pCi/m3	U
2234	706986011	12/25/2024	Lead-210	-9.93E-02	5.45E-02	1.45E-01	pCi/m3	U
2234	657104011	1/24/2024	Lead-212	3.73E-04	4.81E-04	1.17E-03	pCi/m3	U
2234	659797001	2/20/2024	Lead-212	2.95E-04	7.55E-04	1.36E-03	pCi/m3	U
2234	664161001	3/19/2024	Lead-212	1.62E-03	5.22E-04	1.44E-03	pCi/m3	UI
2234	669419004	4/16/2024	Lead-212	-6.03E-05	4.34E-04	1.42E-03	pCi/m3	U
2234	674392002	5/14/2024	Lead-212	7.49E-04	5.60E-04	1.30E-03	pCi/m3	U
2234	676203002	6/11/2024	Lead-212	6.20E-04	6.56E-04	1.32E-03	pCi/m3	U
2234	682054006	7/9/2024	Lead-212	1.84E-03	4.98E-04	1.10E-03	pCi/m3	UI
2234	691730003	8/5/2024	Lead-212	3.75E-05	4.95E-04	1.57E-03	pCi/m3	U
2234	691734008	8/27/2024	Lead-212	4.32E-04	1.04E-03	2.61E-03	pCi/m3	U
2234	695577005	10/1/2024	Lead-212	9.46E-04	5.64E-04	1.37E-03	pCi/m3	U
2234	702719005	10/28/2024	Lead-212	1.22E-03	4.73E-04	1.45E-03	pCi/m3	U
2234	703169006	11/26/2024	Lead-212	1.40E-04	7.62E-04	1.53E-03	pCi/m3	U
2234	706986011	12/25/2024	Lead-212	2.06E-03	6.20E-04	1.46E-03	pCi/m3	UI

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	657104011	1/24/2024	Lead-214	7.67E-04	8.05E-04	1.80E-03	pCi/m3	U
2234	659797001	2/20/2024	Lead-214	5.80E-04	5.41E-04	1.86E-03	pCi/m3	U
2234	664161001	3/19/2024	Lead-214	1.36E-03	1.02E-03	1.80E-03	pCi/m3	U
2234	669419004	4/16/2024	Lead-214	5.75E-04	5.66E-04	1.84E-03	pCi/m3	U
2234	674392002	5/14/2024	Lead-214	9.44E-04	5.79E-04	1.69E-03	pCi/m3	U
2234	676203002	6/11/2024	Lead-214	2.63E-04	7.52E-04	1.71E-03	pCi/m3	U
2234	682054006	7/9/2024	Lead-214	1.32E-04	4.08E-04	1.28E-03	pCi/m3	U
2234	691730003	8/5/2024	Lead-214	2.31E-03	7.89E-04	1.52E-03	pCi/m3	UI
2234	691734008	8/27/2024	Lead-214	1.83E-03	1.05E-03	3.11E-03	pCi/m3	U
2234	695577005	10/1/2024	Lead-214	1.04E-03	6.82E-04	1.92E-03	pCi/m3	U
2234	702719005	10/28/2024	Lead-214	-6.85E-05	5.97E-04	1.92E-03	pCi/m3	U
2234	703169006	11/26/2024	Lead-214	-2.20E-04	5.58E-04	1.72E-03	pCi/m3	U
2234	706986011	12/25/2024	Lead-214	1.61E-03	9.39E-04	1.70E-03	pCi/m3	U
2234	657104011	1/24/2024	Manganese-54	-2.76E-04	2.28E-04	6.56E-04	pCi/m3	U
2234	659797001	2/20/2024	Manganese-54	9.97E-04	2.73E-04	1.14E-03	pCi/m3	U
2234	664161001	3/19/2024	Manganese-54	1.66E-04	2.39E-04	8.32E-04	pCi/m3	U
2234	669419004	4/16/2024	Manganese-54	1.68E-04	3.14E-04	1.06E-03	pCi/m3	U
2234	674392002	5/14/2024	Manganese-54	2.78E-04	2.22E-04	8.05E-04	pCi/m3	U
2234	676203002	6/11/2024	Manganese-54	-5.43E-05	2.02E-04	6.61E-04	pCi/m3	U
2234	682054006	7/9/2024	Manganese-54	-2.85E-04	2.72E-04	7.17E-04	pCi/m3	U
2234	691730003	8/5/2024	Manganese-54	2.04E-04	2.95E-04	1.06E-03	pCi/m3	U
2234	691734008	8/27/2024	Manganese-54	1.04E-04	5.07E-04	1.72E-03	pCi/m3	U
2234	695577005	10/1/2024	Manganese-54	3.35E-04	2.89E-04	1.02E-03	pCi/m3	U
2234	702719005	10/28/2024	Manganese-54	6.10E-04	3.09E-04	1.21E-03	pCi/m3	U
2234	703169006	11/26/2024	Manganese-54	7.73E-04	3.46E-04	7.51E-04	pCi/m3	UI
2234	706986011	12/25/2024	Manganese-54	4.17E-04	2.66E-04	1.01E-03	pCi/m3	U
2234	657104011	1/24/2024	Molybdenum-99	2.95E+00	1.83E+01	0.00E+00	pCi/m3	UI
2234	659797001	2/20/2024	Molybdenum-99	6.22E+00	6.27E+00	0.00E+00	pCi/m3	UI
2234	664161001	3/19/2024	Molybdenum-99	-1.07E+01	1.76E+01	0.00E+00	pCi/m3	U
2234	669419004	4/16/2024	Molybdenum-99	6.37E+02	1.03E+03	0.00E+00	pCi/m3	UI
2234	674392002	5/14/2024	Molybdenum-99	8.02E+03	6.56E+03	0.00E+00	pCi/m3	UI
2234	676203002	6/11/2024	Molybdenum-99	-2.60E+01	8.26E+01	0.00E+00	pCi/m3	U
2234	682054006	7/9/2024	Molybdenum-99	8.03E+02	8.85E+02	0.00E+00	pCi/m3	UI
2234	691730003	8/5/2024	Molybdenum-99	-6.10E+06	1.01E+07	0.00E+00	pCi/m3	U
2234	691734008	8/27/2024	Molybdenum-99	-5.12E+04	6.03E+04	0.00E+00	pCi/m3	U
2234	695577005	10/1/2024	Molybdenum-99	6.42E+02	7.46E+02	0.00E+00	pCi/m3	UI
2234	702719005	10/28/2024	Molybdenum-99	1.15E+05	1.52E+05	0.00E+00	pCi/m3	UI
2234	703169006	11/26/2024	Molybdenum-99	8.46E+01	3.99E+02	0.00E+00	pCi/m3	UI
2234	706986011	12/25/2024	Molybdenum-99	2.07E+02	2.93E+02	0.00E+00	pCi/m3	UI
2234	657104011	1/24/2024	Niobium-95	-2.62E-04	2.73E-04	8.19E-04	pCi/m3	U
2234	659797001	2/20/2024	Niobium-95	4.03E-04	2.87E-04	1.08E-03	pCi/m3	U
2234	664161001	3/19/2024	Niobium-95	8.25E-05	2.96E-04	1.01E-03	pCi/m3	U
2234	669419004	4/16/2024	Niobium-95	8.17E-06	4.27E-04	1.38E-03	pCi/m3	U
2234	674392002	5/14/2024	Niobium-95	9.46E-06	3.38E-04	1.10E-03	pCi/m3	U
2234	676203002	6/11/2024	Niobium-95	-3.65E-04	2.92E-04	8.85E-04	pCi/m3	U
2234	682054006	7/9/2024	Niobium-95	-6.55E-05	3.08E-04	1.03E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	691730003	8/5/2024	Niobium-95	-9.13E-05	8.19E-04	2.61E-03	pCi/m3	U
2234	691734008	8/27/2024	Niobium-95	3.13E-05	1.17E-03	2.75E-03	pCi/m3	U
2234	695577005	10/1/2024	Niobium-95	-6.79E-04	4.73E-04	1.32E-03	pCi/m3	U
2234	702719005	10/28/2024	Niobium-95	2.22E-03	8.10E-04	1.51E-03	pCi/m3	UI
2234	703169006	11/26/2024	Niobium-95	3.83E-04	4.11E-04	1.45E-03	pCi/m3	U
2234	706986011	12/25/2024	Niobium-95	1.37E-03	4.54E-04	1.22E-03	pCi/m3	UI
2234	657104011	1/24/2024	Potassium-40	9.12E-03	4.88E-03	1.85E-02	pCi/m3	U
2234	659797001	2/20/2024	Potassium-40	1.37E-02	6.23E-03	9.12E-03	pCi/m3	UI
2234	664161001	3/19/2024	Potassium-40	1.43E-02	5.24E-03	9.43E-03	pCi/m3	
2234	669419004	4/16/2024	Potassium-40	-8.23E-04	3.52E-03	1.24E-02	pCi/m3	U
2234	674392002	5/14/2024	Potassium-40	4.84E-03	5.12E-03	6.95E-03	pCi/m3	U
2234	676203002	6/11/2024	Potassium-40	5.60E-03	6.06E-03	8.61E-03	pCi/m3	U
2234	682054006	7/9/2024	Potassium-40	6.95E-03	4.23E-03	6.17E-03	pCi/m3	UI
2234	691730003	8/5/2024	Potassium-40	-5.33E-03	5.74E-03	1.90E-02	pCi/m3	U
2234	691734008	8/27/2024	Potassium-40	7.86E-03	1.02E-02	1.66E-02	pCi/m3	U
2234	695577005	10/1/2024	Potassium-40	7.42E-03	5.19E-03	9.91E-03	pCi/m3	U
2234	702719005	10/28/2024	Potassium-40	5.39E-03	4.13E-03	8.13E-03	pCi/m3	U
2234	703169006	11/26/2024	Potassium-40	1.54E-02	6.34E-03	8.20E-03	pCi/m3	UI
2234	706986011	12/25/2024	Potassium-40	2.24E-02	6.27E-03	7.19E-03	pCi/m3	
2234	657104011	1/24/2024	Radium-226	7.67E-04	8.05E-04	1.80E-03	pCi/m3	U
2234	659797001	2/20/2024	Radium-226	5.80E-04	5.41E-04	1.86E-03	pCi/m3	U
2234	664161001	3/19/2024	Radium-226	1.36E-03	1.02E-03	1.80E-03	pCi/m3	U
2234	669419004	4/16/2024	Radium-226	5.75E-04	5.66E-04	1.84E-03	pCi/m3	U
2234	674392002	5/14/2024	Radium-226	9.44E-04	5.79E-04	1.69E-03	pCi/m3	U
2234	676203002	6/11/2024	Radium-226	2.63E-04	7.52E-04	1.71E-03	pCi/m3	U
2234	682054006	7/9/2024	Radium-226	1.32E-04	4.08E-04	1.28E-03	pCi/m3	U
2234	691730003	8/5/2024	Radium-226	2.31E-03	7.89E-04	1.52E-03	pCi/m3	UI
2234	691734008	8/27/2024	Radium-226	1.83E-03	1.05E-03	3.11E-03	pCi/m3	U
2234	695577005	10/1/2024	Radium-226	1.04E-03	6.82E-04	1.92E-03	pCi/m3	U
2234	702719005	10/28/2024	Radium-226	-6.85E-05	5.97E-04	1.92E-03	pCi/m3	U
2234	703169006	11/26/2024	Radium-226	-2.20E-04	5.58E-04	1.72E-03	pCi/m3	U
2234	706986011	12/25/2024	Radium-226	1.61E-03	9.39E-04	1.70E-03	pCi/m3	U
2234	657104011	1/24/2024	Radium-228	1.69E-03	1.19E-03	4.04E-03	pCi/m3	U
2234	659797001	2/20/2024	Radium-228	1.90E-03	1.78E-03	4.47E-03	pCi/m3	U
2234	664161001	3/19/2024	Radium-228	-1.68E-03	1.17E-03	3.68E-03	pCi/m3	U
2234	669419004	4/16/2024	Radium-228	1.41E-03	1.28E-03	3.82E-03	pCi/m3	U
2234	674392002	5/14/2024	Radium-228	-2.17E-03	1.12E-03	3.16E-03	pCi/m3	U
2234	676203002	6/11/2024	Radium-228	6.54E-04	1.24E-03	3.70E-03	pCi/m3	U
2234	682054006	7/9/2024	Radium-228	6.25E-04	1.01E-03	3.64E-03	pCi/m3	U
2234	691730003	8/5/2024	Radium-228	-1.08E-03	1.40E-03	4.48E-03	pCi/m3	U
2234	691734008	8/27/2024	Radium-228	-4.53E-04	2.03E-03	6.47E-03	pCi/m3	U
2234	695577005	10/1/2024	Radium-228	4.32E-04	1.52E-03	4.29E-03	pCi/m3	U
2234	702719005	10/28/2024	Radium-228	1.09E-03	1.23E-03	4.42E-03	pCi/m3	U
2234	703169006	11/26/2024	Radium-228	4.69E-04	1.12E-03	3.48E-03	pCi/m3	U
2234	706986011	12/25/2024	Radium-228	2.45E-03	1.52E-03	4.33E-03	pCi/m3	U
2234	657104011	1/24/2024	Ruthenium-103	3.65E-04	3.34E-04	1.19E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	659797001	2/20/2024	Ruthenium-103	3.41E-04	3.73E-04	1.30E-03	pCi/m3	U
2234	664161001	3/19/2024	Ruthenium-103	1.71E-04	3.24E-04	1.11E-03	pCi/m3	U
2234	669419004	4/16/2024	Ruthenium-103	-3.84E-04	5.16E-04	1.60E-03	pCi/m3	U
2234	674392002	5/14/2024	Ruthenium-103	-1.47E-04	4.51E-04	1.47E-03	pCi/m3	U
2234	676203002	6/11/2024	Ruthenium-103	2.47E-04	3.90E-04	1.33E-03	pCi/m3	U
2234	682054006	7/9/2024	Ruthenium-103	-4.05E-04	3.63E-04	1.07E-03	pCi/m3	U
2234	691730003	8/5/2024	Ruthenium-103	1.18E-03	8.38E-04	3.17E-03	pCi/m3	U
2234	691734008	8/27/2024	Ruthenium-103	-2.40E-03	1.19E-03	3.13E-03	pCi/m3	U
2234	695577005	10/1/2024	Ruthenium-103	1.35E-04	4.73E-04	1.61E-03	pCi/m3	U
2234	702719005	10/28/2024	Ruthenium-103	1.60E-03	7.74E-04	2.94E-03	pCi/m3	U
2234	703169006	11/26/2024	Ruthenium-103	7.27E-04	3.96E-04	1.45E-03	pCi/m3	U
2234	706986011	12/25/2024	Ruthenium-103	1.93E-04	3.94E-04	1.38E-03	pCi/m3	U
2234	657104011	1/24/2024	Ruthenium-106	2.45E-03	1.59E-03	6.01E-03	pCi/m3	U
2234	659797001	2/20/2024	Ruthenium-106	-6.12E-04	2.20E-03	6.90E-03	pCi/m3	U
2234	664161001	3/19/2024	Ruthenium-106	2.03E-03	2.03E-03	7.00E-03	pCi/m3	U
2234	669419004	4/16/2024	Ruthenium-106	3.54E-03	2.73E-03	9.63E-03	pCi/m3	U
2234	674392002	5/14/2024	Ruthenium-106	1.70E-03	2.24E-03	7.75E-03	pCi/m3	U
2234	676203002	6/11/2024	Ruthenium-106	1.44E-03	1.62E-03	5.65E-03	pCi/m3	U
2234	682054006	7/9/2024	Ruthenium-106	3.32E-04	1.65E-03	5.39E-03	pCi/m3	U
2234	691730003	8/5/2024	Ruthenium-106	-3.72E-03	2.83E-03	6.52E-03	pCi/m3	U
2234	691734008	8/27/2024	Ruthenium-106	-3.21E-03	3.51E-03	1.09E-02	pCi/m3	U
2234	695577005	10/1/2024	Ruthenium-106	-1.81E-03	2.23E-03	5.94E-03	pCi/m3	U
2234	702719005	10/28/2024	Ruthenium-106	2.31E-03	1.86E-03	6.89E-03	pCi/m3	U
2234	703169006	11/26/2024	Ruthenium-106	7.91E-04	2.13E-03	7.22E-03	pCi/m3	U
2234	706986011	12/25/2024	Ruthenium-106	5.25E-04	2.06E-03	6.92E-03	pCi/m3	U
2234	657104011	1/24/2024	Selenium-75	8.88E-05	2.60E-04	8.36E-04	pCi/m3	U
2234	659797001	2/20/2024	Selenium-75	-8.38E-05	3.53E-04	1.09E-03	pCi/m3	U
2234	664161001	3/19/2024	Selenium-75	-1.88E-04	2.90E-04	9.27E-04	pCi/m3	U
2234	669419004	4/16/2024	Selenium-75	-1.00E-04	3.31E-04	9.51E-04	pCi/m3	U
2234	674392002	5/14/2024	Selenium-75	3.00E-05	3.11E-04	9.80E-04	pCi/m3	U
2234	676203002	6/11/2024	Selenium-75	-3.93E-04	2.80E-04	7.93E-04	pCi/m3	U
2234	682054006	7/9/2024	Selenium-75	1.25E-04	2.27E-04	7.97E-04	pCi/m3	U
2234	691730003	8/5/2024	Selenium-75	-1.13E-04	3.78E-04	1.24E-03	pCi/m3	U
2234	691734008	8/27/2024	Selenium-75	-7.70E-04	5.59E-04	1.68E-03	pCi/m3	U
2234	695577005	10/1/2024	Selenium-75	3.99E-04	3.31E-04	1.11E-03	pCi/m3	U
2234	702719005	10/28/2024	Selenium-75	-9.35E-04	4.02E-04	1.03E-03	pCi/m3	U
2234	703169006	11/26/2024	Selenium-75	2.71E-04	3.50E-04	1.15E-03	pCi/m3	U
2234	706986011	12/25/2024	Selenium-75	-1.24E-04	2.57E-04	8.32E-04	pCi/m3	U
2234	657104011	1/24/2024	Silver-108m	-2.48E-04	1.49E-04	4.17E-04	pCi/m3	U
2234	659797001	2/20/2024	Silver-108m	-7.98E-05	1.81E-04	5.84E-04	pCi/m3	U
2234	664161001	3/19/2024	Silver-108m	-5.90E-06	1.55E-04	5.22E-04	pCi/m3	U
2234	669419004	4/16/2024	Silver-108m	-6.09E-05	1.95E-04	6.30E-04	pCi/m3	U
2234	674392002	5/14/2024	Silver-108m	-1.89E-04	2.01E-04	6.18E-04	pCi/m3	U
2234	676203002	6/11/2024	Silver-108m	2.16E-05	1.63E-04	5.45E-04	pCi/m3	U
2234	682054006	7/9/2024	Silver-108m	-1.62E-04	1.37E-04	4.11E-04	pCi/m3	U
2234	691730003	8/5/2024	Silver-108m	2.86E-04	2.18E-04	7.10E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	691734008	8/27/2024	Silver-108m	-3.31E-04	2.87E-04	8.26E-04	pCi/m3	U
2234	695577005	10/1/2024	Silver-108m	4.20E-04	3.01E-04	7.21E-04	pCi/m3	U
2234	702719005	10/28/2024	Silver-108m	1.79E-04	1.91E-04	6.79E-04	pCi/m3	U
2234	703169006	11/26/2024	Silver-108m	-1.14E-04	1.90E-04	6.12E-04	pCi/m3	U
2234	706986011	12/25/2024	Silver-108m	9.26E-05	1.90E-04	6.25E-04	pCi/m3	U
2234	657104011	1/24/2024	Silver-110m	6.46E-05	3.53E-04	1.19E-03	pCi/m3	U
2234	659797001	2/20/2024	Silver-110m	1.10E-04	3.74E-04	1.28E-03	pCi/m3	U
2234	664161001	3/19/2024	Silver-110m	-9.65E-04	3.34E-04	8.68E-04	pCi/m3	U
2234	669419004	4/16/2024	Silver-110m	-6.37E-05	3.05E-04	9.50E-04	pCi/m3	U
2234	674392002	5/14/2024	Silver-110m	1.85E-04	4.00E-04	1.21E-03	pCi/m3	U
2234	676203002	6/11/2024	Silver-110m	-1.39E-04	3.33E-04	1.08E-03	pCi/m3	U
2234	682054006	7/9/2024	Silver-110m	6.46E-04	2.60E-04	1.01E-03	pCi/m3	U
2234	691730003	8/5/2024	Silver-110m	5.62E-04	5.09E-04	1.88E-03	pCi/m3	U
2234	691734008	8/27/2024	Silver-110m	1.21E-05	7.14E-04	2.38E-03	pCi/m3	U
2234	695577005	10/1/2024	Silver-110m	9.51E-05	3.62E-04	1.20E-03	pCi/m3	U
2234	702719005	10/28/2024	Silver-110m	8.06E-04	3.34E-04	1.43E-03	pCi/m3	U
2234	703169006	11/26/2024	Silver-110m	3.81E-04	3.55E-04	1.28E-03	pCi/m3	U
2234	706986011	12/25/2024	Silver-110m	1.64E-04	3.74E-04	1.30E-03	pCi/m3	U
2234	657104011	1/24/2024	Tellurium-132	-2.88E-01	4.13E-01	0.00E+00	pCi/m3	U
2234	659797001	2/20/2024	Tellurium-132	4.89E-02	1.77E-01	0.00E+00	pCi/m3	UI
2234	664161001	3/19/2024	Tellurium-132	-4.40E-01	4.20E-01	0.00E+00	pCi/m3	U
2234	669419004	4/16/2024	Tellurium-132	-8.87E+00	1.27E+01	0.00E+00	pCi/m3	U
2234	674392002	5/14/2024	Tellurium-132	6.06E+01	5.99E+01	0.00E+00	pCi/m3	UI
2234	676203002	6/11/2024	Tellurium-132	-2.31E+00	1.75E+00	0.00E+00	pCi/m3	U
2234	682054006	7/9/2024	Tellurium-132	-1.34E+01	1.19E+01	0.00E+00	pCi/m3	U
2234	691730003	8/5/2024	Tellurium-132	-6.17E+03	2.73E+04	0.00E+00	pCi/m3	U
2234	691734008	8/27/2024	Tellurium-132	3.81E+02	4.13E+02	0.00E+00	pCi/m3	UI
2234	695577005	10/1/2024	Tellurium-132	7.92E+00	1.06E+01	0.00E+00	pCi/m3	UI
2234	702719005	10/28/2024	Tellurium-132	9.01E+02	1.20E+03	0.00E+00	pCi/m3	UI
2234	703169006	11/26/2024	Tellurium-132	-6.76E-03	6.57E+00	0.00E+00	pCi/m3	U
2234	706986011	12/25/2024	Tellurium-132	1.99E-01	3.15E+00	0.00E+00	pCi/m3	UI
2234	657104011	1/24/2024	Thallium-208	-1.08E-04	3.03E-04	9.60E-04	pCi/m3	U
2234	659797001	2/20/2024	Thallium-208	-1.15E-04	3.25E-04	1.05E-03	pCi/m3	U
2234	664161001	3/19/2024	Thallium-208	4.14E-04	4.05E-04	6.82E-04	pCi/m3	U
2234	669419004	4/16/2024	Thallium-208	5.09E-04	3.39E-04	1.20E-03	pCi/m3	U
2234	674392002	5/14/2024	Thallium-208	-1.46E-04	2.33E-04	7.23E-04	pCi/m3	U
2234	676203002	6/11/2024	Thallium-208	8.82E-05	2.57E-04	8.34E-04	pCi/m3	U
2234	682054006	7/9/2024	Thallium-208	-1.74E-05	2.52E-04	7.76E-04	pCi/m3	U
2234	691730003	8/5/2024	Thallium-208	-2.43E-04	3.47E-04	1.10E-03	pCi/m3	U
2234	691734008	8/27/2024	Thallium-208	1.43E-03	7.68E-04	1.30E-03	pCi/m3	UI
2234	695577005	10/1/2024	Thallium-208	1.68E-04	2.69E-04	9.00E-04	pCi/m3	U
2234	702719005	10/28/2024	Thallium-208	5.96E-04	3.84E-04	7.87E-04	pCi/m3	U
2234	703169006	11/26/2024	Thallium-208	-2.52E-04	3.07E-04	9.94E-04	pCi/m3	U
2234	706986011	12/25/2024	Thallium-208	2.83E-04	3.94E-04	7.36E-04	pCi/m3	U
2234	657104011	1/24/2024	Thorium-228	3.73E-04	4.81E-04	1.17E-03	pCi/m3	U
2234	659797001	2/20/2024	Thorium-228	2.95E-04	7.55E-04	1.36E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	664161001	3/19/2024	Thorium-228	1.62E-03	5.22E-04	1.44E-03	pCi/m3	UI
2234	669419004	4/16/2024	Thorium-228	-6.03E-05	4.34E-04	1.42E-03	pCi/m3	U
2234	674392002	5/14/2024	Thorium-228	7.49E-04	5.60E-04	1.30E-03	pCi/m3	U
2234	676203002	6/11/2024	Thorium-228	6.20E-04	6.56E-04	1.32E-03	pCi/m3	U
2234	682054006	7/9/2024	Thorium-228	1.84E-03	4.98E-04	1.10E-03	pCi/m3	UI
2234	691730003	8/5/2024	Thorium-228	3.75E-05	4.95E-04	1.57E-03	pCi/m3	U
2234	691734008	8/27/2024	Thorium-228	4.32E-04	1.04E-03	2.61E-03	pCi/m3	U
2234	695577005	10/1/2024	Thorium-228	9.46E-04	5.64E-04	1.37E-03	pCi/m3	U
2234	702719005	10/28/2024	Thorium-228	1.22E-03	4.73E-04	1.45E-03	pCi/m3	U
2234	703169006	11/26/2024	Thorium-228	1.40E-04	7.62E-04	1.53E-03	pCi/m3	U
2234	706986011	12/25/2024	Thorium-228	2.06E-03	6.20E-04	1.46E-03	pCi/m3	UI
2234	657104011	1/24/2024	Thorium-230	7.67E-04	8.05E-04	1.80E-03	pCi/m3	U
2234	659797001	2/20/2024	Thorium-230	5.80E-04	5.41E-04	1.86E-03	pCi/m3	U
2234	664161001	3/19/2024	Thorium-230	1.36E-03	1.01E-03	1.80E-03	pCi/m3	U
2234	669419004	4/16/2024	Thorium-230	5.75E-04	5.66E-04	1.84E-03	pCi/m3	U
2234	674392002	5/14/2024	Thorium-230	9.44E-04	5.78E-04	1.69E-03	pCi/m3	U
2234	676203002	6/11/2024	Thorium-230	2.63E-04	7.52E-04	1.71E-03	pCi/m3	U
2234	682054006	7/9/2024	Thorium-230	1.32E-04	4.08E-04	1.28E-03	pCi/m3	U
2234	691730003	8/5/2024	Thorium-230	2.31E-03	7.89E-04	1.52E-03	pCi/m3	UI
2234	691734008	8/27/2024	Thorium-230	1.83E-03	1.05E-03	3.11E-03	pCi/m3	U
2234	695577005	10/1/2024	Thorium-230	1.04E-03	6.82E-04	1.92E-03	pCi/m3	U
2234	702719005	10/28/2024	Thorium-230	-6.85E-05	5.97E-04	1.92E-03	pCi/m3	U
2234	703169006	11/26/2024	Thorium-230	-2.20E-04	5.58E-04	1.72E-03	pCi/m3	U
2234	706986011	12/25/2024	Thorium-230	1.61E-03	9.39E-04	1.70E-03	pCi/m3	U
2234	657104011	1/24/2024	Thorium-232	1.69E-03	1.19E-03	4.04E-03	pCi/m3	U
2234	659797001	2/20/2024	Thorium-232	1.90E-03	1.78E-03	4.47E-03	pCi/m3	U
2234	664161001	3/19/2024	Thorium-232	-1.68E-03	1.17E-03	3.68E-03	pCi/m3	U
2234	669419004	4/16/2024	Thorium-232	1.41E-03	1.28E-03	3.82E-03	pCi/m3	U
2234	674392002	5/14/2024	Thorium-232	-2.17E-03	1.12E-03	3.16E-03	pCi/m3	U
2234	676203002	6/11/2024	Thorium-232	6.54E-04	1.24E-03	3.70E-03	pCi/m3	U
2234	682054006	7/9/2024	Thorium-232	6.25E-04	1.01E-03	3.64E-03	pCi/m3	U
2234	691730003	8/5/2024	Thorium-232	-1.08E-03	1.40E-03	4.48E-03	pCi/m3	U
2234	691734008	8/27/2024	Thorium-232	-4.53E-04	2.03E-03	6.47E-03	pCi/m3	U
2234	695577005	10/1/2024	Thorium-232	4.32E-04	1.52E-03	4.29E-03	pCi/m3	U
2234	702719005	10/28/2024	Thorium-232	1.09E-03	1.23E-03	4.42E-03	pCi/m3	U
2234	703169006	11/26/2024	Thorium-232	4.69E-04	1.12E-03	3.48E-03	pCi/m3	U
2234	706986011	12/25/2024	Thorium-232	2.45E-03	1.52E-03	4.33E-03	pCi/m3	U
2234	657104011	1/24/2024	Thorium-234	1.32E-02	1.06E-02	1.88E-02	pCi/m3	U
2234	659797001	2/20/2024	Thorium-234	3.17E-03	1.15E-02	2.08E-02	pCi/m3	U
2234	664161001	3/19/2024	Thorium-234	1.61E-03	1.07E-02	3.35E-02	pCi/m3	U
2234	669419004	4/16/2024	Thorium-234	1.53E-02	2.02E-02	3.54E-02	pCi/m3	U
2234	674392002	5/14/2024	Thorium-234	1.16E-02	8.47E-03	1.94E-02	pCi/m3	U
2234	676203002	6/11/2024	Thorium-234	-1.18E-02	7.19E-03	2.19E-02	pCi/m3	U
2234	682054006	7/9/2024	Thorium-234	2.53E-03	7.02E-03	1.37E-02	pCi/m3	U
2234	691730003	8/5/2024	Thorium-234	1.62E-02	2.00E-02	4.01E-02	pCi/m3	U
2234	691734008	8/27/2024	Thorium-234	3.14E-04	7.10E-03	1.72E-02	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	695577005	10/1/2024	Thorium-234	2.65E-04	8.56E-03	1.55E-02	pCi/m3	U
2234	702719005	10/28/2024	Thorium-234	3.58E-03	1.16E-02	2.85E-02	pCi/m3	U
2234	703169006	11/26/2024	Thorium-234	1.92E-02	1.43E-02	2.64E-02	pCi/m3	U
2234	706986011	12/25/2024	Thorium-234	3.61E-03	1.48E-02	2.36E-02	pCi/m3	U
2234	657104011	1/24/2024	Uranium-234	7.67E-04	8.05E-04	1.80E-03	pCi/m3	U
2234	659797001	2/20/2024	Uranium-234	5.80E-04	5.41E-04	1.86E-03	pCi/m3	U
2234	664161001	3/19/2024	Uranium-234	1.36E-03	1.01E-03	1.80E-03	pCi/m3	U
2234	669419004	4/16/2024	Uranium-234	5.75E-04	5.66E-04	1.84E-03	pCi/m3	U
2234	674392002	5/14/2024	Uranium-234	9.44E-04	5.78E-04	1.69E-03	pCi/m3	U
2234	676203002	6/11/2024	Uranium-234	2.63E-04	7.52E-04	1.71E-03	pCi/m3	U
2234	682054006	7/9/2024	Uranium-234	1.32E-04	4.08E-04	1.28E-03	pCi/m3	U
2234	691730003	8/5/2024	Uranium-234	2.31E-03	7.89E-04	1.52E-03	pCi/m3	UI
2234	691734008	8/27/2024	Uranium-234	1.83E-03	1.05E-03	3.11E-03	pCi/m3	U
2234	695577005	10/1/2024	Uranium-234	1.04E-03	6.82E-04	1.92E-03	pCi/m3	U
2234	702719005	10/28/2024	Uranium-234	-6.85E-05	5.97E-04	1.92E-03	pCi/m3	U
2234	703169006	11/26/2024	Uranium-234	-2.20E-04	5.58E-04	1.72E-03	pCi/m3	U
2234	706986011	12/25/2024	Uranium-234	1.61E-03	9.39E-04	1.70E-03	pCi/m3	U
2234	657104011	1/24/2024	Zinc-65	1.52E-04	6.06E-04	2.03E-03	pCi/m3	U
2234	659797001	2/20/2024	Zinc-65	-8.77E-05	8.28E-04	2.32E-03	pCi/m3	U
2234	664161001	3/19/2024	Zinc-65	1.09E-03	7.24E-04	2.32E-03	pCi/m3	U
2234	669419004	4/16/2024	Zinc-65	-8.78E-04	5.61E-04	1.45E-03	pCi/m3	U
2234	674392002	5/14/2024	Zinc-65	3.30E-04	3.68E-04	1.40E-03	pCi/m3	U
2234	676203002	6/11/2024	Zinc-65	8.21E-04	5.24E-04	1.99E-03	pCi/m3	U
2234	682054006	7/9/2024	Zinc-65	-1.79E-04	4.83E-04	1.52E-03	pCi/m3	U
2234	691730003	8/5/2024	Zinc-65	-5.04E-04	7.98E-04	1.92E-03	pCi/m3	U
2234	691734008	8/27/2024	Zinc-65	-1.79E-03	1.16E-03	3.13E-03	pCi/m3	U
2234	695577005	10/1/2024	Zinc-65	-2.03E-04	4.50E-04	1.22E-03	pCi/m3	U
2234	702719005	10/28/2024	Zinc-65	5.23E-04	7.60E-04	2.67E-03	pCi/m3	U
2234	703169006	11/26/2024	Zinc-65	1.01E-04	7.76E-04	2.65E-03	pCi/m3	U
2234	706986011	12/25/2024	Zinc-65	-9.93E-04	7.14E-04	1.97E-03	pCi/m3	U
2234	657104011	1/24/2024	Zirconium-95	2.64E-05	5.87E-04	1.99E-03	pCi/m3	U
2234	659797001	2/20/2024	Zirconium-95	2.52E-03	1.06E-03	2.59E-03	pCi/m3	U
2234	664161001	3/19/2024	Zirconium-95	3.62E-04	5.41E-04	1.90E-03	pCi/m3	U
2234	669419004	4/16/2024	Zirconium-95	-3.15E-04	7.23E-04	2.24E-03	pCi/m3	U
2234	674392002	5/14/2024	Zirconium-95	-1.96E-04	7.87E-04	2.21E-03	pCi/m3	U
2234	676203002	6/11/2024	Zirconium-95	1.35E-04	5.56E-04	1.92E-03	pCi/m3	U
2234	682054006	7/9/2024	Zirconium-95	-5.67E-04	5.91E-04	1.86E-03	pCi/m3	U
2234	691730003	8/5/2024	Zirconium-95	-6.95E-04	8.66E-04	2.43E-03	pCi/m3	U
2234	691734008	8/27/2024	Zirconium-95	1.45E-03	1.49E-03	5.38E-03	pCi/m3	U
2234	695577005	10/1/2024	Zirconium-95	-3.86E-04	6.72E-04	2.06E-03	pCi/m3	U
2234	702719005	10/28/2024	Zirconium-95	3.42E-04	9.91E-04	3.44E-03	pCi/m3	U
2234	703169006	11/26/2024	Zirconium-95	2.65E-03	8.99E-04	2.47E-03	pCi/m3	UI
2234	706986011	12/25/2024	Zirconium-95	2.75E-04	7.33E-04	2.44E-03	pCi/m3	U
3298	657103005	1/24/2024	Actinium-228	8.62E-04	1.01E-03	3.68E-03	pCi/m3	U
3298	659590002	2/19/2024	Actinium-228	1.40E-03	1.31E-03	4.52E-03	pCi/m3	U
3298	663625005	3/18/2024	Actinium-228	2.11E-03	1.28E-03	4.24E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	669420009	4/22/2024	Actinium-228	2.02E-03	1.71E-03	4.71E-03	pCi/m3	U
3298	674390009	5/13/2024	Actinium-228	6.29E-05	1.71E-03	4.15E-03	pCi/m3	U
3298	676202008	6/10/2024	Actinium-228	3.60E-03	1.10E-03	4.04E-03	pCi/m3	U
3298	682043010	7/8/2024	Actinium-228	5.22E-04	1.26E-03	4.40E-03	pCi/m3	U
3298	691726007	8/5/2024	Actinium-228	-3.69E-03	2.06E-03	6.19E-03	pCi/m3	U
3298	691728010	9/3/2024	Actinium-228	4.19E-03	1.06E-03	3.89E-03	pCi/m3	UI
3298	695498010	9/23/2024	Actinium-228	-5.15E-04	1.04E-03	3.51E-03	pCi/m3	U
3298	702706010	10/28/2024	Actinium-228	1.56E-03	1.53E-03	5.42E-03	pCi/m3	U
3298	702707010	11/25/2024	Actinium-228	-1.18E-03	1.47E-03	4.49E-03	pCi/m3	U
3298	705727010	12/23/2024	Actinium-228	2.14E-03	1.30E-03	3.72E-03	pCi/m3	U
3298	657103005	1/24/2024	Americium-241	-8.04E-04	1.12E-03	3.39E-03	pCi/m3	U
3298	659590002	2/19/2024	Americium-241	-3.92E-04	8.45E-04	2.62E-03	pCi/m3	U
3298	663625005	3/18/2024	Americium-241	2.23E-04	7.32E-04	2.29E-03	pCi/m3	U
3298	669420009	4/22/2024	Americium-241	1.08E-04	8.00E-04	2.78E-03	pCi/m3	U
3298	674390009	5/13/2024	Americium-241	-7.29E-04	7.11E-04	2.26E-03	pCi/m3	U
3298	676202008	6/10/2024	Americium-241	-4.60E-04	6.18E-04	1.83E-03	pCi/m3	U
3298	682043010	7/8/2024	Americium-241	1.35E-03	3.98E-04	1.05E-03	pCi/m3	UI
3298	691726007	8/5/2024	Americium-241	-6.17E-05	2.84E-04	8.67E-04	pCi/m3	U
3298	691728010	9/3/2024	Americium-241	2.98E-04	4.06E-04	1.43E-03	pCi/m3	U
3298	695498010	9/23/2024	Americium-241	-3.68E-04	4.62E-04	1.32E-03	pCi/m3	U
3298	702706010	10/28/2024	Americium-241	4.11E-05	1.99E-04	6.46E-04	pCi/m3	U
3298	702707010	11/25/2024	Americium-241	6.27E-04	1.00E-03	3.47E-03	pCi/m3	U
3298	705727010	12/23/2024	Americium-241	-3.04E-04	5.73E-04	1.87E-03	pCi/m3	U
3298	657103005	1/24/2024	Antimony-124	1.29E-03	9.02E-04	3.66E-03	pCi/m3	U
3298	659590002	2/19/2024	Antimony-124	2.02E-04	1.16E-03	3.84E-03	pCi/m3	U
3298	663625005	3/18/2024	Antimony-124	5.09E-04	1.01E-03	3.50E-03	pCi/m3	U
3298	669420009	4/22/2024	Antimony-124	-3.56E-03	1.57E-03	3.41E-03	pCi/m3	U
3298	674390009	5/13/2024	Antimony-124	-1.26E-03	1.06E-03	2.46E-03	pCi/m3	U
3298	676202008	6/10/2024	Antimony-124	-3.90E-04	1.07E-03	3.31E-03	pCi/m3	U
3298	682043010	7/8/2024	Antimony-124	7.98E-04	1.36E-03	5.07E-03	pCi/m3	U
3298	691726007	8/5/2024	Antimony-124	9.79E-04	1.51E-03	5.91E-03	pCi/m3	U
3298	691728010	9/3/2024	Antimony-124	1.11E-03	9.55E-04	3.76E-03	pCi/m3	U
3298	695498010	9/23/2024	Antimony-124	4.24E-04	1.05E-03	3.60E-03	pCi/m3	U
3298	702706010	10/28/2024	Antimony-124	-2.01E-03	1.76E-03	4.37E-03	pCi/m3	U
3298	702707010	11/25/2024	Antimony-124	-1.07E-03	1.20E-03	3.52E-03	pCi/m3	U
3298	705727010	12/23/2024	Antimony-124	-2.18E-03	9.23E-04	1.68E-03	pCi/m3	U
3298	657103005	1/24/2024	Antimony-125	3.18E-04	5.62E-04	1.89E-03	pCi/m3	U
3298	659590002	2/19/2024	Antimony-125	-1.00E-06	6.69E-04	1.99E-03	pCi/m3	U
3298	663625005	3/18/2024	Antimony-125	-4.63E-04	5.58E-04	1.75E-03	pCi/m3	U
3298	669420009	4/22/2024	Antimony-125	4.84E-05	6.49E-04	2.17E-03	pCi/m3	U
3298	674390009	5/13/2024	Antimony-125	-8.41E-04	5.50E-04	1.66E-03	pCi/m3	U
3298	676202008	6/10/2024	Antimony-125	-3.09E-04	5.35E-04	1.73E-03	pCi/m3	U
3298	682043010	7/8/2024	Antimony-125	1.90E-03	7.48E-04	2.80E-03	pCi/m3	U
3298	691726007	8/5/2024	Antimony-125	-3.93E-04	1.11E-03	3.48E-03	pCi/m3	U
3298	691728010	9/3/2024	Antimony-125	-1.53E-04	3.79E-04	1.24E-03	pCi/m3	U
3298	695498010	9/23/2024	Antimony-125	-1.43E-04	4.79E-04	1.55E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	702706010	10/28/2024	Antimony-125	-2.00E-04	5.40E-04	1.76E-03	pCi/m3	U
3298	702707010	11/25/2024	Antimony-125	-4.82E-04	6.22E-04	1.96E-03	pCi/m3	U
3298	705727010	12/23/2024	Antimony-125	-5.31E-04	4.44E-04	1.35E-03	pCi/m3	U
3298	657103005	1/24/2024	Barium-140	2.26E-03	4.55E-03	1.61E-02	pCi/m3	U
3298	659590002	2/19/2024	Barium-140	-2.84E-03	4.89E-03	1.51E-02	pCi/m3	U
3298	663625005	3/18/2024	Barium-140	3.10E-03	3.17E-03	1.15E-02	pCi/m3	U
3298	669420009	4/22/2024	Barium-140	1.03E-02	9.62E-03	3.37E-02	pCi/m3	U
3298	674390009	5/13/2024	Barium-140	3.24E-02	2.31E-02	8.38E-02	pCi/m3	U
3298	676202008	6/10/2024	Barium-140	4.29E-03	7.91E-03	2.50E-02	pCi/m3	U
3298	682043010	7/8/2024	Barium-140	-1.34E-02	1.39E-02	3.96E-02	pCi/m3	U
3298	691726007	8/5/2024	Barium-140	1.52E-01	1.76E-01	5.99E-01	pCi/m3	U
3298	691728010	9/3/2024	Barium-140	-2.40E-02	1.72E-02	4.44E-02	pCi/m3	U
3298	695498010	9/23/2024	Barium-140	-1.32E-03	1.92E-02	5.55E-02	pCi/m3	U
3298	702706010	10/28/2024	Barium-140	1.86E-02	4.69E-02	1.45E-01	pCi/m3	U
3298	702707010	11/25/2024	Barium-140	2.01E-02	1.12E-02	4.08E-02	pCi/m3	U
3298	705727010	12/23/2024	Barium-140	-2.06E-03	5.27E-03	1.69E-02	pCi/m3	U
3298	657103005	1/24/2024	Beryllium-7	7.76E-02	6.67E-03	6.41E-03	pCi/m3	
3298	659590002	2/19/2024	Beryllium-7	6.35E-02	8.48E-03	9.93E-03	pCi/m3	
3298	663625005	3/18/2024	Beryllium-7	8.21E-02	8.20E-03	8.79E-03	pCi/m3	
3298	669420009	4/22/2024	Beryllium-7	1.09E-01	9.21E-03	9.76E-03	pCi/m3	
3298	674390009	5/13/2024	Beryllium-7	1.37E-01	1.13E-02	1.21E-02	pCi/m3	
3298	676202008	6/10/2024	Beryllium-7	9.76E-02	7.78E-03	7.61E-03	pCi/m3	
3298	682043010	7/8/2024	Beryllium-7	1.34E-01	1.20E-02	1.33E-02	pCi/m3	
3298	691726007	8/5/2024	Beryllium-7	1.11E-01	2.34E-02	3.14E-02	pCi/m3	
3298	691728010	9/3/2024	Beryllium-7	1.29E-01	1.05E-02	9.52E-03	pCi/m3	
3298	695498010	9/23/2024	Beryllium-7	1.01E-01	9.57E-03	1.02E-02	pCi/m3	
3298	702706010	10/28/2024	Beryllium-7	1.05E-01	1.10E-02	1.30E-02	pCi/m3	
3298	702707010	11/25/2024	Beryllium-7	6.37E-02	7.05E-03	1.03E-02	pCi/m3	
3298	705727010	12/23/2024	Beryllium-7	7.75E-02	6.69E-03	7.04E-03	pCi/m3	
3298	650212001	1/2/2024	BETA	3.23E-02	1.56E-03	1.44E-03	pCi/m3	
3298	650997023	1/8/2024	BETA	3.78E-02	1.84E-03	1.61E-03	pCi/m3	
3298	651850021	1/18/2024	BETA	4.17E-02	1.46E-03	1.01E-03	pCi/m3	
3298	652271011	1/24/2024	BETA	4.68E-02	2.09E-03	1.68E-03	pCi/m3	
3298	653179001	1/29/2024	BETA	1.72E-02	2.72E-03	1.85E-03	pCi/m3	
3298	654192003	2/5/2024	BETA	3.67E-02	1.65E-03	1.32E-03	pCi/m3	
3298	655009017	2/12/2024	BETA	2.48E-02	1.42E-03	1.47E-03	pCi/m3	
3298	655823003	2/19/2024	BETA	3.28E-02	1.57E-03	1.35E-03	pCi/m3	
3298	656512019	2/26/2024	BETA	3.31E-02	1.60E-03	1.35E-03	pCi/m3	
3298	657412019	3/4/2024	BETA	2.88E-02	1.49E-03	1.39E-03	pCi/m3	
3298	658451019	3/11/2024	BETA	2.16E-02	1.29E-03	1.32E-03	pCi/m3	
3298	659316009	3/18/2024	BETA	3.02E-02	1.53E-03	1.39E-03	pCi/m3	
3298	660084001	3/25/2024	BETA	2.91E-02	1.47E-03	1.22E-03	pCi/m3	
3298	660799018	4/1/2024	BETA	2.96E-02	1.50E-03	1.33E-03	pCi/m3	
3298	662049021	4/8/2024	BETA	2.15E-02	1.30E-03	1.34E-03	pCi/m3	
3298	662072032	4/15/2024	BETA	2.60E-02	1.35E-03	1.21E-03	pCi/m3	
3298	664093021	4/22/2024	BETA	2.77E-02	1.43E-03	1.27E-03	pCi/m3	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	665207001	4/29/2024	BETA	3.71E-02	1.67E-03	1.26E-03	pCi/m3	
3298	666125019	5/6/2024	BETA	2.36E-02	1.30E-03	1.18E-03	pCi/m3	
3298	667162019	5/13/2024	BETA	2.37E-02	1.30E-03	1.21E-03	pCi/m3	
3298	668221001	5/20/2024	BETA	2.72E-02	1.42E-03	1.23E-03	pCi/m3	
3298	669065017	5/28/2024	BETA	2.44E-02	1.23E-03	1.03E-03	pCi/m3	
3298	669758019	6/3/2024	BETA	2.41E-02	1.46E-03	1.45E-03	pCi/m3	
3298	670840017	6/10/2024	BETA	1.95E-02	1.07E-03	1.06E-03	pCi/m3	
3298	671899021	6/18/2024	BETA	3.93E-02	1.59E-03	1.16E-03	pCi/m3	
3298	672776019	6/24/2024	BETA	3.39E-02	3.32E-03	1.47E-03	pCi/m3	
3298	673678013	7/2/2024	BETA	3.05E-02	1.38E-03	1.09E-03	pCi/m3	
3298	674340019	7/8/2024	BETA	2.80E-02	1.54E-03	1.49E-03	pCi/m3	
3298	675687003	7/15/2024	BETA	3.20E-02	1.46E-03	1.13E-03	pCi/m3	
3298	676805019	7/22/2024	BETA	2.51E-02	1.29E-03	1.10E-03	pCi/m3	
3298	677971003	7/29/2024	BETA	3.11E-02	1.47E-03	1.54E-03	pCi/m3	
3298	679206013	8/5/2024	BETA	3.11E-02	2.79E-03	1.14E-03	pCi/m3	
3298	680238019	8/13/2024	BETA	3.49E-02	1.29E-03	8.33E-04	pCi/m3	
3298	681492001	8/19/2024	BETA	3.16E-02	1.41E-03	1.14E-03	pCi/m3	
3298	682605019	8/26/2024	BETA	3.70E-02	1.54E-03	1.13E-03	pCi/m3	
3298	683697019	9/3/2024	BETA	3.92E-02	1.50E-03	1.09E-03	pCi/m3	
3298	684665017	9/9/2024	BETA	3.29E-02	1.55E-03	1.28E-03	pCi/m3	
3298	685845019	9/17/2024	BETA	3.44E-02	1.50E-03	1.14E-03	pCi/m3	
3298	686977019	9/23/2024	BETA	3.44E-02	1.56E-03	1.25E-03	pCi/m3	
3298	687855017	9/30/2024	BETA	2.87E-02	1.37E-03	1.10E-03	pCi/m3	
3298	689083017	10/8/2024	BETA	3.89E-02	1.50E-03	1.08E-03	pCi/m3	
3298	690096019	10/14/2024	BETA	5.29E-02	2.00E-03	1.36E-03	pCi/m3	
3298	691166019	10/21/2024	BETA	2.86E-02	1.40E-03	1.24E-03	pCi/m3	
3298	692331019	10/28/2024	BETA	6.22E-02	2.04E-03	1.22E-03	pCi/m3	
3298	693535021	11/4/2024	BETA	3.94E-02	1.60E-03	1.23E-03	pCi/m3	
3298	694914025	11/12/2024	BETA	3.07E-02	1.37E-03	1.08E-03	pCi/m3	
3298	696167019	11/18/2024	BETA	4.49E-02	1.87E-03	1.46E-03	pCi/m3	
3298	697370019	11/25/2024	BETA	2.91E-02	1.39E-03	1.24E-03	pCi/m3	
3298	698168019	12/3/2024	BETA	3.95E-02	1.54E-03	1.05E-03	pCi/m3	
3298	699436019	12/10/2024	BETA	3.94E-02	1.61E-03	1.18E-03	pCi/m3	
3298	700753021	12/17/2024	BETA	3.68E-02	1.61E-03	1.33E-03	pCi/m3	
3298	701914010	12/23/2024	BETA	3.39E-02	1.66E-03	1.48E-03	pCi/m3	
3298	702292019	12/30/2024	BETA	4.46E-02	1.75E-03	1.23E-03	pCi/m3	
3298	657103005	1/24/2024	Bismuth-214	7.29E-04	5.67E-04	2.04E-03	pCi/m3	U
3298	659590002	2/19/2024	Bismuth-214	-4.44E-04	7.42E-04	2.21E-03	pCi/m3	U
3298	663625005	3/18/2024	Bismuth-214	5.16E-04	8.33E-04	2.08E-03	pCi/m3	U
3298	669420009	4/22/2024	Bismuth-214	-1.31E-03	6.90E-04	2.07E-03	pCi/m3	U
3298	674390009	5/13/2024	Bismuth-214	-4.16E-04	5.71E-04	1.60E-03	pCi/m3	U
3298	676202008	6/10/2024	Bismuth-214	1.21E-03	4.94E-04	1.72E-03	pCi/m3	U
3298	682043010	7/8/2024	Bismuth-214	-3.15E-04	9.16E-04	2.56E-03	pCi/m3	U
3298	691726007	8/5/2024	Bismuth-214	3.83E-03	1.50E-03	4.13E-03	pCi/m3	U
3298	691728010	9/3/2024	Bismuth-214	1.89E-04	4.88E-04	1.62E-03	pCi/m3	U
3298	695498010	9/23/2024	Bismuth-214	1.28E-03	8.54E-04	1.96E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	702706010	10/28/2024	Bismuth-214	1.08E-03	6.56E-04	2.06E-03	pCi/m3	U
3298	702707010	11/25/2024	Bismuth-214	7.47E-04	7.20E-04	1.20E-03	pCi/m3	U
3298	705727010	12/23/2024	Bismuth-214	-8.29E-04	5.48E-04	1.62E-03	pCi/m3	U
3298	657103005	1/24/2024	Cerium-141	-3.65E-04	5.06E-04	1.56E-03	pCi/m3	U
3298	659590002	2/19/2024	Cerium-141	-3.65E-04	5.21E-04	1.59E-03	pCi/m3	U
3298	663625005	3/18/2024	Cerium-141	-5.34E-04	5.25E-04	1.59E-03	pCi/m3	U
3298	669420009	4/22/2024	Cerium-141	-1.19E-03	7.07E-04	2.14E-03	pCi/m3	U
3298	674390009	5/13/2024	Cerium-141	-1.28E-03	9.83E-04	2.80E-03	pCi/m3	U
3298	676202008	6/10/2024	Cerium-141	-3.40E-04	5.75E-04	1.80E-03	pCi/m3	U
3298	682043010	7/8/2024	Cerium-141	4.98E-04	6.20E-04	2.13E-03	pCi/m3	U
3298	691726007	8/5/2024	Cerium-141	-1.31E-03	2.29E-03	7.47E-03	pCi/m3	U
3298	691728010	9/3/2024	Cerium-141	-1.79E-04	6.15E-04	1.97E-03	pCi/m3	U
3298	695498010	9/23/2024	Cerium-141	6.41E-04	9.65E-04	2.66E-03	pCi/m3	U
3298	702706010	10/28/2024	Cerium-141	1.44E-04	1.75E-03	2.87E-03	pCi/m3	U
3298	702707010	11/25/2024	Cerium-141	-3.79E-04	8.25E-04	2.39E-03	pCi/m3	U
3298	705727010	12/23/2024	Cerium-141	9.20E-05	4.69E-04	1.53E-03	pCi/m3	U
3298	657103005	1/24/2024	Cerium-144	8.84E-05	8.57E-04	2.80E-03	pCi/m3	U
3298	659590002	2/19/2024	Cerium-144	2.97E-04	1.04E-03	3.41E-03	pCi/m3	U
3298	663625005	3/18/2024	Cerium-144	9.26E-04	1.13E-03	3.78E-03	pCi/m3	U
3298	669420009	4/22/2024	Cerium-144	-1.18E-04	1.09E-03	3.58E-03	pCi/m3	U
3298	674390009	5/13/2024	Cerium-144	7.50E-04	1.16E-03	3.90E-03	pCi/m3	U
3298	676202008	6/10/2024	Cerium-144	2.59E-04	1.05E-03	3.45E-03	pCi/m3	U
3298	682043010	7/8/2024	Cerium-144	-1.78E-04	8.45E-04	2.75E-03	pCi/m3	U
3298	691726007	8/5/2024	Cerium-144	-2.25E-03	1.74E-03	5.50E-03	pCi/m3	U
3298	691728010	9/3/2024	Cerium-144	-7.15E-04	8.43E-04	2.63E-03	pCi/m3	U
3298	695498010	9/23/2024	Cerium-144	1.03E-03	9.32E-04	3.16E-03	pCi/m3	U
3298	702706010	10/28/2024	Cerium-144	1.40E-04	9.65E-04	3.21E-03	pCi/m3	U
3298	702707010	11/25/2024	Cerium-144	1.27E-03	1.18E-03	3.77E-03	pCi/m3	U
3298	705727010	12/23/2024	Cerium-144	-2.34E-04	8.62E-04	2.75E-03	pCi/m3	U
3298	657103005	1/24/2024	Cesium-134	1.14E-04	2.51E-04	8.56E-04	pCi/m3	U
3298	659590002	2/19/2024	Cesium-134	1.59E-04	3.53E-04	1.06E-03	pCi/m3	U
3298	663625005	3/18/2024	Cesium-134	2.91E-06	2.70E-04	8.67E-04	pCi/m3	U
3298	669420009	4/22/2024	Cesium-134	1.36E-04	3.68E-04	9.82E-04	pCi/m3	U
3298	674390009	5/13/2024	Cesium-134	-1.83E-04	2.67E-04	7.98E-04	pCi/m3	U
3298	676202008	6/10/2024	Cesium-134	-1.17E-04	2.81E-04	8.67E-04	pCi/m3	U
3298	682043010	7/8/2024	Cesium-134	1.36E-04	3.11E-04	1.11E-03	pCi/m3	U
3298	691726007	8/5/2024	Cesium-134	3.46E-04	5.18E-04	1.79E-03	pCi/m3	U
3298	691728010	9/3/2024	Cesium-134	-4.32E-05	1.70E-04	5.31E-04	pCi/m3	U
3298	695498010	9/23/2024	Cesium-134	-3.33E-05	2.47E-04	7.73E-04	pCi/m3	U
3298	702706010	10/28/2024	Cesium-134	-6.88E-04	3.15E-04	7.03E-04	pCi/m3	U
3298	702707010	11/25/2024	Cesium-134	4.55E-04	3.03E-04	1.15E-03	pCi/m3	U
3298	705727010	12/23/2024	Cesium-134	1.54E-04	2.29E-04	7.89E-04	pCi/m3	U
3298	657103005	1/24/2024	Cesium-137	4.14E-04	1.75E-04	8.33E-04	pCi/m3	U
3298	659590002	2/19/2024	Cesium-137	5.71E-04	2.55E-04	1.01E-03	pCi/m3	U
3298	663625005	3/18/2024	Cesium-137	-1.02E-04	1.91E-04	5.80E-04	pCi/m3	U
3298	669420009	4/22/2024	Cesium-137	-5.74E-05	2.54E-04	7.96E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	674390009	5/13/2024	Cesium-137	-5.33E-05	2.70E-04	8.71E-04	pCi/m3	U
3298	676202008	6/10/2024	Cesium-137	4.77E-04	2.59E-04	6.97E-04	pCi/m3	U
3298	682043010	7/8/2024	Cesium-137	-6.75E-04	3.64E-04	9.64E-04	pCi/m3	U
3298	691726007	8/5/2024	Cesium-137	-4.38E-04	4.41E-04	1.37E-03	pCi/m3	U
3298	691728010	9/3/2024	Cesium-137	1.30E-04	1.85E-04	6.51E-04	pCi/m3	U
3298	695498010	9/23/2024	Cesium-137	5.51E-04	2.02E-04	8.12E-04	pCi/m3	U
3298	702706010	10/28/2024	Cesium-137	1.31E-04	2.82E-04	9.56E-04	pCi/m3	U
3298	702707010	11/25/2024	Cesium-137	-5.00E-04	4.09E-04	1.14E-03	pCi/m3	U
3298	705727010	12/23/2024	Cesium-137	6.78E-05	1.89E-04	6.40E-04	pCi/m3	U
3298	657103005	1/24/2024	Chromium-51	3.13E-03	3.65E-03	1.28E-02	pCi/m3	U
3298	659590002	2/19/2024	Chromium-51	-6.41E-04	3.61E-03	1.21E-02	pCi/m3	U
3298	663625005	3/18/2024	Chromium-51	-4.20E-03	3.54E-03	1.13E-02	pCi/m3	U
3298	669420009	4/22/2024	Chromium-51	-1.65E-03	5.33E-03	1.79E-02	pCi/m3	U
3298	674390009	5/13/2024	Chromium-51	-7.95E-05	7.59E-03	2.60E-02	pCi/m3	U
3298	676202008	6/10/2024	Chromium-51	-3.69E-03	4.17E-03	1.35E-02	pCi/m3	U
3298	682043010	7/8/2024	Chromium-51	-1.18E-02	7.09E-03	2.17E-02	pCi/m3	U
3298	691726007	8/5/2024	Chromium-51	-5.47E-03	2.42E-02	7.77E-02	pCi/m3	U
3298	691728010	9/3/2024	Chromium-51	-7.16E-03	5.17E-03	1.40E-02	pCi/m3	U
3298	695498010	9/23/2024	Chromium-51	2.48E-03	5.11E-03	1.78E-02	pCi/m3	U
3298	702706010	10/28/2024	Chromium-51	-2.98E-03	8.75E-03	2.94E-02	pCi/m3	U
3298	702707010	11/25/2024	Chromium-51	5.90E-03	5.79E-03	2.05E-02	pCi/m3	U
3298	705727010	12/23/2024	Chromium-51	6.77E-03	3.65E-03	1.37E-02	pCi/m3	U
3298	657103005	1/24/2024	Cobalt-57	-9.13E-05	1.09E-04	3.34E-04	pCi/m3	U
3298	659590002	2/19/2024	Cobalt-57	2.78E-05	1.27E-04	4.15E-04	pCi/m3	U
3298	663625005	3/18/2024	Cobalt-57	6.89E-05	1.19E-04	3.98E-04	pCi/m3	U
3298	669420009	4/22/2024	Cobalt-57	4.84E-04	2.36E-04	4.80E-04	pCi/m3	UI
3298	674390009	5/13/2024	Cobalt-57	5.48E-06	1.44E-04	4.70E-04	pCi/m3	U
3298	676202008	6/10/2024	Cobalt-57	1.25E-04	1.16E-04	4.03E-04	pCi/m3	U
3298	682043010	7/8/2024	Cobalt-57	3.91E-05	1.22E-04	4.11E-04	pCi/m3	U
3298	691726007	8/5/2024	Cobalt-57	3.24E-04	2.09E-04	6.98E-04	pCi/m3	U
3298	691728010	9/3/2024	Cobalt-57	-1.01E-04	1.14E-04	3.37E-04	pCi/m3	U
3298	695498010	9/23/2024	Cobalt-57	-7.31E-05	1.13E-04	3.45E-04	pCi/m3	U
3298	702706010	10/28/2024	Cobalt-57	2.59E-05	1.17E-04	3.93E-04	pCi/m3	U
3298	702707010	11/25/2024	Cobalt-57	-1.67E-04	1.57E-04	4.86E-04	pCi/m3	U
3298	705727010	12/23/2024	Cobalt-57	-2.27E-04	1.13E-04	3.22E-04	pCi/m3	U
3298	657103005	1/24/2024	Cobalt-58	4.04E-04	3.65E-04	1.31E-03	pCi/m3	U
3298	659590002	2/19/2024	Cobalt-58	-4.31E-04	3.47E-04	9.16E-04	pCi/m3	U
3298	663625005	3/18/2024	Cobalt-58	-7.87E-05	3.69E-04	1.16E-03	pCi/m3	U
3298	669420009	4/22/2024	Cobalt-58	-4.68E-04	3.79E-04	9.32E-04	pCi/m3	U
3298	674390009	5/13/2024	Cobalt-58	2.09E-04	3.99E-04	1.36E-03	pCi/m3	U
3298	676202008	6/10/2024	Cobalt-58	2.65E-04	3.23E-04	1.13E-03	pCi/m3	U
3298	682043010	7/8/2024	Cobalt-58	-5.75E-04	3.91E-04	1.02E-03	pCi/m3	U
3298	691726007	8/5/2024	Cobalt-58	7.37E-04	1.05E-03	3.67E-03	pCi/m3	U
3298	691728010	9/3/2024	Cobalt-58	-3.05E-04	3.62E-04	1.02E-03	pCi/m3	U
3298	695498010	9/23/2024	Cobalt-58	3.60E-04	2.97E-04	1.09E-03	pCi/m3	U
3298	702706010	10/28/2024	Cobalt-58	2.94E-04	4.90E-04	1.68E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	702707010	11/25/2024	Cobalt-58	5.10E-04	3.80E-04	1.43E-03	pCi/m3	U
3298	705727010	12/23/2024	Cobalt-58	1.38E-04	2.64E-04	8.99E-04	pCi/m3	U
3298	657103005	1/24/2024	Cobalt-60	9.72E-05	3.17E-04	1.07E-03	pCi/m3	U
3298	659590002	2/19/2024	Cobalt-60	-3.25E-04	3.27E-04	9.12E-04	pCi/m3	U
3298	663625005	3/18/2024	Cobalt-60	4.77E-05	2.34E-04	7.98E-04	pCi/m3	U
3298	669420009	4/22/2024	Cobalt-60	-6.07E-05	3.09E-04	9.65E-04	pCi/m3	U
3298	674390009	5/13/2024	Cobalt-60	-2.57E-04	2.05E-04	5.15E-04	pCi/m3	U
3298	676202008	6/10/2024	Cobalt-60	5.68E-04	2.91E-04	1.16E-03	pCi/m3	U
3298	682043010	7/8/2024	Cobalt-60	-1.82E-04	3.92E-04	1.16E-03	pCi/m3	U
3298	691726007	8/5/2024	Cobalt-60	1.48E-03	8.37E-04	2.72E-03	pCi/m3	U
3298	691728010	9/3/2024	Cobalt-60	5.63E-05	1.76E-04	6.22E-04	pCi/m3	U
3298	695498010	9/23/2024	Cobalt-60	5.36E-04	3.14E-04	1.21E-03	pCi/m3	U
3298	702706010	10/28/2024	Cobalt-60	-1.42E-04	3.77E-04	1.18E-03	pCi/m3	U
3298	702707010	11/25/2024	Cobalt-60	-7.49E-05	3.42E-04	1.08E-03	pCi/m3	U
3298	705727010	12/23/2024	Cobalt-60	-2.03E-04	2.09E-04	5.84E-04	pCi/m3	U
3298	657103005	1/24/2024	Iron-59	8.35E-04	8.88E-04	3.25E-03	pCi/m3	U
3298	659590002	2/19/2024	Iron-59	-3.20E-04	9.11E-04	2.92E-03	pCi/m3	U
3298	663625005	3/18/2024	Iron-59	5.98E-04	6.87E-04	2.53E-03	pCi/m3	U
3298	669420009	4/22/2024	Iron-59	6.06E-04	9.84E-04	3.44E-03	pCi/m3	U
3298	674390009	5/13/2024	Iron-59	1.33E-03	1.12E-03	4.27E-03	pCi/m3	U
3298	676202008	6/10/2024	Iron-59	-5.71E-04	8.96E-04	2.82E-03	pCi/m3	U
3298	682043010	7/8/2024	Iron-59	-8.03E-05	1.28E-03	4.17E-03	pCi/m3	U
3298	691726007	8/5/2024	Iron-59	4.48E-04	4.08E-03	1.19E-02	pCi/m3	U
3298	691728010	9/3/2024	Iron-59	6.81E-04	7.03E-04	2.73E-03	pCi/m3	U
3298	695498010	9/23/2024	Iron-59	-7.21E-04	1.24E-03	3.92E-03	pCi/m3	U
3298	702706010	10/28/2024	Iron-59	-1.63E-03	1.47E-03	4.12E-03	pCi/m3	U
3298	702707010	11/25/2024	Iron-59	-8.48E-04	1.04E-03	3.09E-03	pCi/m3	U
3298	705727010	12/23/2024	Iron-59	-6.63E-04	7.99E-04	2.04E-03	pCi/m3	U
3298	657103005	1/24/2024	Lanthanum-140	-3.35E-03	2.86E-03	7.98E-03	pCi/m3	U
3298	659590002	2/19/2024	Lanthanum-140	1.55E-03	1.97E-03	7.21E-03	pCi/m3	U
3298	663625005	3/18/2024	Lanthanum-140	-5.22E-04	1.95E-03	6.16E-03	pCi/m3	U
3298	669420009	4/22/2024	Lanthanum-140	-5.51E-03	4.47E-03	1.27E-02	pCi/m3	U
3298	674390009	5/13/2024	Lanthanum-140	1.10E-02	7.22E-03	2.82E-02	pCi/m3	U
3298	676202008	6/10/2024	Lanthanum-140	1.71E-03	3.62E-03	1.26E-02	pCi/m3	U
3298	682043010	7/8/2024	Lanthanum-140	7.39E-03	9.82E-03	3.61E-02	pCi/m3	U
3298	691726007	8/5/2024	Lanthanum-140	7.88E-02	6.41E-02	2.44E-01	pCi/m3	U
3298	691728010	9/3/2024	Lanthanum-140	9.07E-03	7.78E-03	2.96E-02	pCi/m3	U
3298	695498010	9/23/2024	Lanthanum-140	1.01E-02	6.73E-03	2.64E-02	pCi/m3	U
3298	702706010	10/28/2024	Lanthanum-140	1.45E-02	2.08E-02	7.40E-02	pCi/m3	U
3298	702707010	11/25/2024	Lanthanum-140	-1.39E-03	3.78E-03	1.21E-02	pCi/m3	U
3298	705727010	12/23/2024	Lanthanum-140	-3.12E-03	2.03E-03	4.68E-03	pCi/m3	U
3298	657103005	1/24/2024	Lead-210	4.21E-02	4.64E-02	1.70E-01	pCi/m3	U
3298	659590002	2/19/2024	Lead-210	-1.01E-02	2.61E-02	8.29E-02	pCi/m3	U
3298	663625005	3/18/2024	Lead-210	5.19E-02	3.92E-02	5.45E-02	pCi/m3	U
3298	669420009	4/22/2024	Lead-210	-5.15E-02	3.02E-02	8.91E-02	pCi/m3	U
3298	674390009	5/13/2024	Lead-210	-1.52E-03	2.21E-02	6.89E-02	pCi/m3	U

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Company: Tennessee Valley Authority		Plant: Sequoyah	

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	676202008	6/10/2024	Lead-210	4.49E-02	3.37E-02	5.35E-02	pCi/m3	U
3298	682043010	7/8/2024	Lead-210	4.39E-02	5.71E-03	6.87E-03	pCi/m3	
3298	691726007	8/5/2024	Lead-210	1.43E-02	4.72E-03	9.43E-03	pCi/m3	
3298	691728010	9/3/2024	Lead-210	4.83E-02	1.78E-02	2.79E-02	pCi/m3	
3298	695498010	9/23/2024	Lead-210	3.13E-02	1.37E-02	2.62E-02	pCi/m3	UI
3298	702706010	10/28/2024	Lead-210	4.00E-02	5.26E-03	6.56E-03	pCi/m3	
3298	702707010	11/25/2024	Lead-210	-1.36E-02	3.46E-02	1.16E-01	pCi/m3	U
3298	705727010	12/23/2024	Lead-210	1.77E-02	2.02E-02	6.69E-02	pCi/m3	U
3298	657103005	1/24/2024	Lead-212	1.11E-03	6.02E-04	1.40E-03	pCi/m3	U
3298	659590002	2/19/2024	Lead-212	5.98E-04	5.77E-04	2.04E-03	pCi/m3	U
3298	663625005	3/18/2024	Lead-212	7.77E-04	6.68E-04	1.58E-03	pCi/m3	U
3298	669420009	4/22/2024	Lead-212	2.97E-03	9.30E-04	1.03E-03	pCi/m3	
3298	674390009	5/13/2024	Lead-212	1.01E-03	7.50E-04	1.56E-03	pCi/m3	U
3298	676202008	6/10/2024	Lead-212	1.00E-03	6.49E-04	1.60E-03	pCi/m3	U
3298	682043010	7/8/2024	Lead-212	1.51E-06	4.12E-04	1.28E-03	pCi/m3	U
3298	691726007	8/5/2024	Lead-212	3.96E-04	1.08E-03	1.89E-03	pCi/m3	U
3298	691728010	9/3/2024	Lead-212	1.17E-03	5.78E-04	1.28E-03	pCi/m3	U
3298	695498010	9/23/2024	Lead-212	1.01E-03	6.09E-04	8.99E-04	pCi/m3	UI
3298	702706010	10/28/2024	Lead-212	9.26E-04	5.61E-04	8.69E-04	pCi/m3	UI
3298	702707010	11/25/2024	Lead-212	1.06E-03	8.44E-04	1.58E-03	pCi/m3	U
3298	705727010	12/23/2024	Lead-212	1.57E-03	5.40E-04	9.15E-04	pCi/m3	
3298	657103005	1/24/2024	Lead-214	7.01E-05	5.48E-04	1.79E-03	pCi/m3	U
3298	659590002	2/19/2024	Lead-214	1.81E-03	7.76E-04	2.25E-03	pCi/m3	U
3298	663625005	3/18/2024	Lead-214	3.62E-04	5.31E-04	1.78E-03	pCi/m3	U
3298	669420009	4/22/2024	Lead-214	-2.75E-04	6.35E-04	2.00E-03	pCi/m3	U
3298	674390009	5/13/2024	Lead-214	2.46E-03	9.56E-04	2.01E-03	pCi/m3	UI
3298	676202008	6/10/2024	Lead-214	6.46E-04	7.75E-04	1.79E-03	pCi/m3	U
3298	682043010	7/8/2024	Lead-214	1.65E-03	6.01E-04	2.33E-03	pCi/m3	U
3298	691726007	8/5/2024	Lead-214	1.93E-03	1.24E-03	3.40E-03	pCi/m3	U
3298	691728010	9/3/2024	Lead-214	7.28E-04	4.80E-04	1.56E-03	pCi/m3	U
3298	695498010	9/23/2024	Lead-214	1.63E-04	4.81E-04	1.60E-03	pCi/m3	U
3298	702706010	10/28/2024	Lead-214	1.33E-03	1.13E-03	2.02E-03	pCi/m3	U
3298	702707010	11/25/2024	Lead-214	-1.04E-03	6.20E-04	1.87E-03	pCi/m3	U
3298	705727010	12/23/2024	Lead-214	1.37E-03	6.62E-04	1.79E-03	pCi/m3	U
3298	657103005	1/24/2024	Manganese-54	-1.64E-05	2.26E-04	7.23E-04	pCi/m3	U
3298	659590002	2/19/2024	Manganese-54	7.15E-05	2.92E-04	9.53E-04	pCi/m3	U
3298	663625005	3/18/2024	Manganese-54	-7.02E-05	2.49E-04	7.71E-04	pCi/m3	U
3298	669420009	4/22/2024	Manganese-54	-3.95E-04	2.99E-04	9.00E-04	pCi/m3	U
3298	674390009	5/13/2024	Manganese-54	7.19E-05	2.64E-04	8.77E-04	pCi/m3	U
3298	676202008	6/10/2024	Manganese-54	8.77E-05	2.49E-04	8.25E-04	pCi/m3	U
3298	682043010	7/8/2024	Manganese-54	5.34E-04	2.73E-04	8.16E-04	pCi/m3	U
3298	691726007	8/5/2024	Manganese-54	5.05E-04	5.47E-04	1.97E-03	pCi/m3	U
3298	691728010	9/3/2024	Manganese-54	-8.49E-05	2.09E-04	5.54E-04	pCi/m3	U
3298	695498010	9/23/2024	Manganese-54	1.16E-04	2.35E-04	8.32E-04	pCi/m3	U
3298	702706010	10/28/2024	Manganese-54	-3.26E-04	3.05E-04	8.34E-04	pCi/m3	U
3298	702707010	11/25/2024	Manganese-54	-6.81E-05	2.70E-04	8.91E-04	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	705727010	12/23/2024	Manganese-54	-2.26E-05	2.11E-04	6.68E-04	pCi/m3	U
3298	657103005	1/24/2024	Molybdenum-99	-9.56E+00	1.85E+01	0.00E+00	pCi/m3	U
3298	659590002	2/19/2024	Molybdenum-99	-1.40E+01	8.46E+00	0.00E+00	pCi/m3	U
3298	663625005	3/18/2024	Molybdenum-99	-1.20E+01	6.14E+00	0.00E+00	pCi/m3	U
3298	669420009	4/22/2024	Molybdenum-99	-1.85E+02	1.62E+02	0.00E+00	pCi/m3	U
3298	674390009	5/13/2024	Molybdenum-99	-2.32E+02	9.47E+03	0.00E+00	pCi/m3	U
3298	676202008	6/10/2024	Molybdenum-99	4.45E+00	1.47E+02	0.00E+00	pCi/m3	UI
3298	682043010	7/8/2024	Molybdenum-99	-2.75E+03	1.70E+03	0.00E+00	pCi/m3	U
3298	691726007	8/5/2024	Molybdenum-99	5.53E+06	1.70E+07	0.00E+00	pCi/m3	UI
3298	691728010	9/3/2024	Molybdenum-99	-5.08E+03	5.25E+03	0.00E+00	pCi/m3	U
3298	695498010	9/23/2024	Molybdenum-99	-6.14E+03	3.88E+03	0.00E+00	pCi/m3	U
3298	702706010	10/28/2024	Molybdenum-99	2.87E+05	2.47E+05	0.00E+00	pCi/m3	UI
3298	702707010	11/25/2024	Molybdenum-99	9.50E+01	2.48E+02	0.00E+00	pCi/m3	UI
3298	705727010	12/23/2024	Molybdenum-99	-3.53E+01	2.89E+01	0.00E+00	pCi/m3	U
3298	657103005	1/24/2024	Niobium-95	8.10E-04	3.62E-04	1.41E-03	pCi/m3	U
3298	659590002	2/19/2024	Niobium-95	4.79E-04	3.86E-04	1.39E-03	pCi/m3	U
3298	663625005	3/18/2024	Niobium-95	-8.53E-04	3.19E-04	7.30E-04	pCi/m3	U
3298	669420009	4/22/2024	Niobium-95	1.38E-04	3.64E-04	1.27E-03	pCi/m3	U
3298	674390009	5/13/2024	Niobium-95	6.97E-04	4.08E-04	1.54E-03	pCi/m3	U
3298	676202008	6/10/2024	Niobium-95	5.43E-04	3.69E-04	1.34E-03	pCi/m3	U
3298	682043010	7/8/2024	Niobium-95	4.56E-04	6.16E-04	2.22E-03	pCi/m3	U
3298	691726007	8/5/2024	Niobium-95	-1.44E-03	1.68E-03	3.81E-03	pCi/m3	U
3298	691728010	9/3/2024	Niobium-95	2.53E-04	3.47E-04	1.22E-03	pCi/m3	U
3298	695498010	9/23/2024	Niobium-95	7.27E-04	3.86E-04	1.45E-03	pCi/m3	U
3298	702706010	10/28/2024	Niobium-95	6.11E-05	6.01E-04	1.95E-03	pCi/m3	U
3298	702707010	11/25/2024	Niobium-95	3.33E-04	4.74E-04	1.55E-03	pCi/m3	U
3298	705727010	12/23/2024	Niobium-95	-5.00E-05	3.53E-04	1.09E-03	pCi/m3	U
3298	657103005	1/24/2024	Potassium-40	4.92E-03	4.32E-03	1.72E-02	pCi/m3	U
3298	659590002	2/19/2024	Potassium-40	1.43E-03	5.42E-03	1.99E-02	pCi/m3	U
3298	663625005	3/18/2024	Potassium-40	1.29E-02	4.43E-03	6.82E-03	pCi/m3	UI
3298	669420009	4/22/2024	Potassium-40	1.04E-02	5.50E-03	7.32E-03	pCi/m3	UI
3298	674390009	5/13/2024	Potassium-40	1.15E-02	4.00E-03	8.35E-03	pCi/m3	U
3298	676202008	6/10/2024	Potassium-40	1.92E-03	5.91E-03	9.67E-03	pCi/m3	U
3298	682043010	7/8/2024	Potassium-40	6.31E-03	3.65E-03	1.53E-02	pCi/m3	U
3298	691726007	8/5/2024	Potassium-40	9.94E-03	1.17E-02	1.11E-02	pCi/m3	U
3298	691728010	9/3/2024	Potassium-40	4.54E-03	4.00E-03	4.56E-03	pCi/m3	U
3298	695498010	9/23/2024	Potassium-40	1.22E-02	5.70E-03	8.32E-03	pCi/m3	UI
3298	702706010	10/28/2024	Potassium-40	1.01E-02	4.85E-03	1.84E-02	pCi/m3	U
3298	702707010	11/25/2024	Potassium-40	1.48E-03	5.44E-03	2.07E-02	pCi/m3	U
3298	705727010	12/23/2024	Potassium-40	1.43E-02	4.23E-03	6.10E-03	pCi/m3	U
3298	657103005	1/24/2024	Radium-226	7.01E-05	5.48E-04	1.79E-03	pCi/m3	U
3298	659590002	2/19/2024	Radium-226	1.81E-03	7.76E-04	2.25E-03	pCi/m3	U
3298	663625005	3/18/2024	Radium-226	3.62E-04	5.31E-04	1.78E-03	pCi/m3	U
3298	669420009	4/22/2024	Radium-226	-2.75E-04	6.35E-04	2.00E-03	pCi/m3	U
3298	674390009	5/13/2024	Radium-226	2.46E-03	9.56E-04	2.01E-03	pCi/m3	UI
3298	676202008	6/10/2024	Radium-226	6.46E-04	7.75E-04	1.79E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	682043010	7/8/2024	Radium-226	1.65E-03	6.01E-04	2.33E-03	pCi/m3	U
3298	691726007	8/5/2024	Radium-226	1.93E-03	1.24E-03	3.40E-03	pCi/m3	U
3298	691728010	9/3/2024	Radium-226	7.28E-04	4.80E-04	1.56E-03	pCi/m3	U
3298	695498010	9/23/2024	Radium-226	1.63E-04	4.81E-04	1.60E-03	pCi/m3	U
3298	702706010	10/28/2024	Radium-226	1.33E-03	1.13E-03	2.02E-03	pCi/m3	U
3298	702707010	11/25/2024	Radium-226	-1.04E-03	6.20E-04	1.87E-03	pCi/m3	U
3298	705727010	12/23/2024	Radium-226	1.37E-03	6.62E-04	1.79E-03	pCi/m3	U
3298	657103005	1/24/2024	Radium-228	8.62E-04	1.01E-03	3.68E-03	pCi/m3	U
3298	659590002	2/19/2024	Radium-228	1.40E-03	1.31E-03	4.52E-03	pCi/m3	U
3298	663625005	3/18/2024	Radium-228	2.11E-03	1.28E-03	4.24E-03	pCi/m3	U
3298	669420009	4/22/2024	Radium-228	2.02E-03	1.71E-03	4.71E-03	pCi/m3	U
3298	674390009	5/13/2024	Radium-228	6.29E-05	1.71E-03	4.15E-03	pCi/m3	U
3298	676202008	6/10/2024	Radium-228	3.60E-03	1.10E-03	4.04E-03	pCi/m3	U
3298	682043010	7/8/2024	Radium-228	5.22E-04	1.26E-03	4.40E-03	pCi/m3	U
3298	691726007	8/5/2024	Radium-228	-3.69E-03	2.06E-03	6.19E-03	pCi/m3	U
3298	691728010	9/3/2024	Radium-228	4.19E-03	1.06E-03	3.89E-03	pCi/m3	UI
3298	695498010	9/23/2024	Radium-228	-5.15E-04	1.04E-03	3.51E-03	pCi/m3	U
3298	702706010	10/28/2024	Radium-228	1.56E-03	1.53E-03	5.42E-03	pCi/m3	U
3298	702707010	11/25/2024	Radium-228	-1.18E-03	1.47E-03	4.49E-03	pCi/m3	U
3298	705727010	12/23/2024	Radium-228	2.14E-03	1.30E-03	3.72E-03	pCi/m3	U
3298	657103005	1/24/2024	Ruthenium-103	-1.74E-04	3.66E-04	1.20E-03	pCi/m3	U
3298	659590002	2/19/2024	Ruthenium-103	-2.74E-04	3.54E-04	1.08E-03	pCi/m3	U
3298	663625005	3/18/2024	Ruthenium-103	1.23E-04	3.24E-04	1.10E-03	pCi/m3	U
3298	669420009	4/22/2024	Ruthenium-103	-3.87E-04	5.02E-04	1.56E-03	pCi/m3	U
3298	674390009	5/13/2024	Ruthenium-103	-2.76E-04	5.79E-04	1.65E-03	pCi/m3	U
3298	676202008	6/10/2024	Ruthenium-103	2.43E-04	3.79E-04	1.32E-03	pCi/m3	U
3298	682043010	7/8/2024	Ruthenium-103	-2.27E-04	5.12E-04	1.60E-03	pCi/m3	U
3298	691726007	8/5/2024	Ruthenium-103	1.07E-03	1.24E-03	4.34E-03	pCi/m3	U
3298	691728010	9/3/2024	Ruthenium-103	-1.84E-05	4.44E-04	1.43E-03	pCi/m3	U
3298	695498010	9/23/2024	Ruthenium-103	1.07E-03	4.62E-04	1.79E-03	pCi/m3	U
3298	702706010	10/28/2024	Ruthenium-103	5.31E-04	8.35E-04	2.91E-03	pCi/m3	U
3298	702707010	11/25/2024	Ruthenium-103	-1.31E-04	5.16E-04	1.66E-03	pCi/m3	U
3298	705727010	12/23/2024	Ruthenium-103	-7.97E-05	3.15E-04	1.03E-03	pCi/m3	U
3298	657103005	1/24/2024	Ruthenium-106	7.90E-03	4.63E-03	7.06E-03	pCi/m3	UI
3298	659590002	2/19/2024	Ruthenium-106	6.21E-04	2.58E-03	8.54E-03	pCi/m3	U
3298	663625005	3/18/2024	Ruthenium-106	1.80E-03	2.01E-03	7.07E-03	pCi/m3	U
3298	669420009	4/22/2024	Ruthenium-106	1.03E-03	2.17E-03	7.28E-03	pCi/m3	U
3298	674390009	5/13/2024	Ruthenium-106	6.32E-03	2.50E-03	5.42E-03	pCi/m3	UI
3298	676202008	6/10/2024	Ruthenium-106	1.26E-03	2.12E-03	7.28E-03	pCi/m3	U
3298	682043010	7/8/2024	Ruthenium-106	-2.42E-03	2.91E-03	8.50E-03	pCi/m3	U
3298	691726007	8/5/2024	Ruthenium-106	1.72E-03	4.21E-03	1.47E-02	pCi/m3	U
3298	691728010	9/3/2024	Ruthenium-106	1.20E-03	1.57E-03	5.59E-03	pCi/m3	U
3298	695498010	9/23/2024	Ruthenium-106	2.02E-03	1.58E-03	5.82E-03	pCi/m3	U
3298	702706010	10/28/2024	Ruthenium-106	1.76E-03	2.51E-03	8.73E-03	pCi/m3	U
3298	702707010	11/25/2024	Ruthenium-106	3.96E-03	2.22E-03	8.29E-03	pCi/m3	U
3298	705727010	12/23/2024	Ruthenium-106	-3.94E-04	2.23E-03	7.20E-03	pCi/m3	U

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Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	657103005	1/24/2024	Selenium-75	2.10E-04	2.74E-04	9.62E-04	pCi/m3	U
3298	659590002	2/19/2024	Selenium-75	2.22E-04	2.95E-04	1.05E-03	pCi/m3	U
3298	663625005	3/18/2024	Selenium-75	-4.94E-05	2.55E-04	8.66E-04	pCi/m3	U
3298	669420009	4/22/2024	Selenium-75	-4.35E-04	3.48E-04	9.98E-04	pCi/m3	U
3298	674390009	5/13/2024	Selenium-75	-1.56E-04	3.49E-04	1.06E-03	pCi/m3	U
3298	676202008	6/10/2024	Selenium-75	-3.45E-04	3.07E-04	8.81E-04	pCi/m3	U
3298	682043010	7/8/2024	Selenium-75	-2.07E-04	3.93E-04	1.18E-03	pCi/m3	U
3298	691726007	8/5/2024	Selenium-75	-7.06E-04	7.24E-04	2.12E-03	pCi/m3	U
3298	691728010	9/3/2024	Selenium-75	3.87E-04	2.81E-04	9.69E-04	pCi/m3	U
3298	695498010	9/23/2024	Selenium-75	-1.44E-04	2.53E-04	8.30E-04	pCi/m3	U
3298	702706010	10/28/2024	Selenium-75	-2.94E-05	3.39E-04	1.06E-03	pCi/m3	U
3298	702707010	11/25/2024	Selenium-75	2.45E-05	3.66E-04	1.20E-03	pCi/m3	U
3298	705727010	12/23/2024	Selenium-75	5.62E-05	2.62E-04	8.31E-04	pCi/m3	U
3298	657103005	1/24/2024	Silver-108m	1.81E-04	1.64E-04	5.78E-04	pCi/m3	U
3298	659590002	2/19/2024	Silver-108m	2.70E-05	2.15E-04	7.21E-04	pCi/m3	U
3298	663625005	3/18/2024	Silver-108m	2.21E-04	1.77E-04	6.42E-04	pCi/m3	U
3298	669420009	4/22/2024	Silver-108m	-2.56E-04	1.96E-04	5.96E-04	pCi/m3	U
3298	674390009	5/13/2024	Silver-108m	-2.24E-04	2.27E-04	6.87E-04	pCi/m3	U
3298	676202008	6/10/2024	Silver-108m	-2.63E-04	1.46E-04	4.12E-04	pCi/m3	U
3298	682043010	7/8/2024	Silver-108m	-3.41E-04	2.55E-04	7.13E-04	pCi/m3	U
3298	691726007	8/5/2024	Silver-108m	-3.91E-04	2.90E-04	8.12E-04	pCi/m3	U
3298	691728010	9/3/2024	Silver-108m	-2.39E-04	1.26E-04	3.54E-04	pCi/m3	U
3298	695498010	9/23/2024	Silver-108m	-9.21E-05	1.87E-04	5.99E-04	pCi/m3	U
3298	702706010	10/28/2024	Silver-108m	-1.40E-04	1.80E-04	5.65E-04	pCi/m3	U
3298	702707010	11/25/2024	Silver-108m	-2.27E-04	2.12E-04	6.51E-04	pCi/m3	U
3298	705727010	12/23/2024	Silver-108m	-8.72E-05	1.64E-04	4.68E-04	pCi/m3	U
3298	657103005	1/24/2024	Silver-110m	2.13E-04	3.36E-04	1.06E-03	pCi/m3	U
3298	659590002	2/19/2024	Silver-110m	-3.85E-04	3.15E-04	8.88E-04	pCi/m3	U
3298	663625005	3/18/2024	Silver-110m	-1.92E-04	3.32E-04	9.78E-04	pCi/m3	U
3298	669420009	4/22/2024	Silver-110m	-6.39E-04	3.84E-04	1.08E-03	pCi/m3	U
3298	674390009	5/13/2024	Silver-110m	8.97E-04	3.95E-04	1.45E-03	pCi/m3	U
3298	676202008	6/10/2024	Silver-110m	-2.07E-04	3.92E-04	1.18E-03	pCi/m3	U
3298	682043010	7/8/2024	Silver-110m	-2.48E-04	4.37E-04	1.35E-03	pCi/m3	U
3298	691726007	8/5/2024	Silver-110m	3.23E-04	7.75E-04	2.68E-03	pCi/m3	U
3298	691728010	9/3/2024	Silver-110m	4.45E-04	2.36E-04	9.69E-04	pCi/m3	U
3298	695498010	9/23/2024	Silver-110m	-3.78E-04	3.26E-04	9.73E-04	pCi/m3	U
3298	702706010	10/28/2024	Silver-110m	-4.28E-04	5.37E-04	1.60E-03	pCi/m3	U
3298	702707010	11/25/2024	Silver-110m	-1.17E-04	4.36E-04	1.43E-03	pCi/m3	U
3298	705727010	12/23/2024	Silver-110m	-2.04E-04	2.65E-04	7.46E-04	pCi/m3	U
3298	657103005	1/24/2024	Tellurium-132	-3.03E-01	3.96E-01	0.00E+00	pCi/m3	U
3298	659590002	2/19/2024	Tellurium-132	2.55E-01	1.98E-01	0.00E+00	pCi/m3	UI
3298	663625005	3/18/2024	Tellurium-132	6.32E-02	1.57E-01	5.03E-01	pCi/m3	U
3298	669420009	4/22/2024	Tellurium-132	3.30E+00	3.41E+00	0.00E+00	pCi/m3	UI
3298	674390009	5/13/2024	Tellurium-132	-1.40E+02	8.89E+01	0.00E+00	pCi/m3	U
3298	676202008	6/10/2024	Tellurium-132	-1.81E-01	2.36E+00	0.00E+00	pCi/m3	U
3298	682043010	7/8/2024	Tellurium-132	1.11E+01	1.89E+01	0.00E+00	pCi/m3	UI

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	691726007	8/5/2024	Tellurium-132	-1.09E+05	5.66E+04	0.00E+00	pCi/m3	U
3298	691728010	9/3/2024	Tellurium-132	-7.32E+01	5.08E+01	0.00E+00	pCi/m3	U
3298	695498010	9/23/2024	Tellurium-132	8.57E+00	4.55E+01	0.00E+00	pCi/m3	UI
3298	702706010	10/28/2024	Tellurium-132	-1.70E+03	1.32E+03	0.00E+00	pCi/m3	U
3298	702707010	11/25/2024	Tellurium-132	6.17E+00	3.71E+00	0.00E+00	pCi/m3	UI
3298	705727010	12/23/2024	Tellurium-132	4.67E-03	6.20E-01	0.00E+00	pCi/m3	UI
3298	657103005	1/24/2024	Thallium-208	4.39E-04	4.12E-04	7.75E-04	pCi/m3	U
3298	659590002	2/19/2024	Thallium-208	5.73E-04	5.16E-04	8.36E-04	pCi/m3	U
3298	663625005	3/18/2024	Thallium-208	-1.46E-04	2.80E-04	8.71E-04	pCi/m3	U
3298	669420009	4/22/2024	Thallium-208	4.52E-04	3.46E-04	7.92E-04	pCi/m3	U
3298	674390009	5/13/2024	Thallium-208	1.83E-04	2.89E-04	9.78E-04	pCi/m3	U
3298	676202008	6/10/2024	Thallium-208	3.47E-04	3.22E-04	1.07E-03	pCi/m3	U
3298	682043010	7/8/2024	Thallium-208	1.24E-04	4.91E-04	9.43E-04	pCi/m3	U
3298	691726007	8/5/2024	Thallium-208	1.68E-03	5.62E-04	1.38E-03	pCi/m3	
3298	691728010	9/3/2024	Thallium-208	6.10E-04	3.32E-04	5.30E-04	pCi/m3	UI
3298	695498010	9/23/2024	Thallium-208	1.17E-04	2.62E-04	8.62E-04	pCi/m3	U
3298	702706010	10/28/2024	Thallium-208	6.15E-05	3.06E-04	9.50E-04	pCi/m3	U
3298	702707010	11/25/2024	Thallium-208	1.50E-04	3.54E-04	1.16E-03	pCi/m3	U
3298	705727010	12/23/2024	Thallium-208	1.17E-04	2.59E-04	8.87E-04	pCi/m3	U
3298	657103005	1/24/2024	Thorium-228	1.11E-03	6.02E-04	1.40E-03	pCi/m3	U
3298	659590002	2/19/2024	Thorium-228	5.98E-04	5.77E-04	2.04E-03	pCi/m3	U
3298	663625005	3/18/2024	Thorium-228	7.77E-04	6.68E-04	1.58E-03	pCi/m3	U
3298	669420009	4/22/2024	Thorium-228	2.97E-03	9.30E-04	1.03E-03	pCi/m3	
3298	674390009	5/13/2024	Thorium-228	1.01E-03	7.50E-04	1.56E-03	pCi/m3	U
3298	676202008	6/10/2024	Thorium-228	1.00E-03	6.49E-04	1.60E-03	pCi/m3	U
3298	682043010	7/8/2024	Thorium-228	1.51E-06	4.12E-04	1.28E-03	pCi/m3	U
3298	691726007	8/5/2024	Thorium-228	3.96E-04	1.08E-03	1.89E-03	pCi/m3	U
3298	691728010	9/3/2024	Thorium-228	1.17E-03	5.78E-04	1.28E-03	pCi/m3	U
3298	695498010	9/23/2024	Thorium-228	1.01E-03	6.09E-04	8.99E-04	pCi/m3	UI
3298	702706010	10/28/2024	Thorium-228	9.26E-04	5.61E-04	8.69E-04	pCi/m3	UI
3298	702707010	11/25/2024	Thorium-228	1.06E-03	8.44E-04	1.58E-03	pCi/m3	U
3298	705727010	12/23/2024	Thorium-228	1.57E-03	5.40E-04	9.15E-04	pCi/m3	
3298	657103005	1/24/2024	Thorium-230	7.01E-05	5.48E-04	1.79E-03	pCi/m3	U
3298	659590002	2/19/2024	Thorium-230	1.81E-03	7.75E-04	2.25E-03	pCi/m3	U
3298	663625005	3/18/2024	Thorium-230	3.62E-04	5.31E-04	1.78E-03	pCi/m3	U
3298	669420009	4/22/2024	Thorium-230	-2.75E-04	6.35E-04	2.00E-03	pCi/m3	U
3298	674390009	5/13/2024	Thorium-230	2.46E-03	9.56E-04	2.01E-03	pCi/m3	UI
3298	676202008	6/10/2024	Thorium-230	6.45E-04	7.75E-04	1.79E-03	pCi/m3	U
3298	682043010	7/8/2024	Thorium-230	1.65E-03	6.01E-04	2.33E-03	pCi/m3	U
3298	691726007	8/5/2024	Thorium-230	1.93E-03	1.24E-03	3.40E-03	pCi/m3	U
3298	691728010	9/3/2024	Thorium-230	7.28E-04	4.80E-04	1.56E-03	pCi/m3	U
3298	695498010	9/23/2024	Thorium-230	1.63E-04	4.81E-04	1.60E-03	pCi/m3	U
3298	702706010	10/28/2024	Thorium-230	1.33E-03	1.13E-03	2.02E-03	pCi/m3	U
3298	702707010	11/25/2024	Thorium-230	-1.04E-03	6.20E-04	1.87E-03	pCi/m3	U
3298	705727010	12/23/2024	Thorium-230	1.37E-03	6.62E-04	1.79E-03	pCi/m3	U
3298	657103005	1/24/2024	Thorium-232	8.62E-04	1.01E-03	3.68E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	659590002	2/19/2024	Thorium-232	1.40E-03	1.31E-03	4.52E-03	pCi/m3	U
3298	663625005	3/18/2024	Thorium-232	2.11E-03	1.28E-03	4.24E-03	pCi/m3	U
3298	669420009	4/22/2024	Thorium-232	2.02E-03	1.71E-03	4.71E-03	pCi/m3	U
3298	674390009	5/13/2024	Thorium-232	6.29E-05	1.71E-03	4.15E-03	pCi/m3	U
3298	676202008	6/10/2024	Thorium-232	3.60E-03	1.10E-03	4.04E-03	pCi/m3	U
3298	682043010	7/8/2024	Thorium-232	5.22E-04	1.26E-03	4.40E-03	pCi/m3	U
3298	691726007	8/5/2024	Thorium-232	-3.69E-03	2.06E-03	6.19E-03	pCi/m3	U
3298	691728010	9/3/2024	Thorium-232	4.19E-03	1.06E-03	3.89E-03	pCi/m3	UI
3298	695498010	9/23/2024	Thorium-232	-5.15E-04	1.04E-03	3.51E-03	pCi/m3	U
3298	702706010	10/28/2024	Thorium-232	1.56E-03	1.53E-03	5.42E-03	pCi/m3	U
3298	702707010	11/25/2024	Thorium-232	-1.18E-03	1.47E-03	4.49E-03	pCi/m3	U
3298	705727010	12/23/2024	Thorium-232	2.14E-03	1.30E-03	3.72E-03	pCi/m3	U
3298	657103005	1/24/2024	Thorium-234	1.79E-02	1.51E-02	2.93E-02	pCi/m3	U
3298	659590002	2/19/2024	Thorium-234	4.72E-03	7.89E-03	2.68E-02	pCi/m3	U
3298	663625005	3/18/2024	Thorium-234	1.53E-02	1.16E-02	2.72E-02	pCi/m3	U
3298	669420009	4/22/2024	Thorium-234	1.10E-03	1.33E-02	2.22E-02	pCi/m3	U
3298	674390009	5/13/2024	Thorium-234	4.67E-04	9.69E-03	1.91E-02	pCi/m3	U
3298	676202008	6/10/2024	Thorium-234	8.60E-03	9.16E-03	2.43E-02	pCi/m3	U
3298	682043010	7/8/2024	Thorium-234	1.31E-02	5.91E-03	1.34E-02	pCi/m3	U
3298	691726007	8/5/2024	Thorium-234	6.49E-03	7.32E-03	1.72E-02	pCi/m3	U
3298	691728010	9/3/2024	Thorium-234	3.90E-03	5.00E-03	1.47E-02	pCi/m3	U
3298	695498010	9/23/2024	Thorium-234	2.81E-04	6.11E-03	1.82E-02	pCi/m3	U
3298	702706010	10/28/2024	Thorium-234	2.45E-03	4.31E-03	1.45E-02	pCi/m3	U
3298	702707010	11/25/2024	Thorium-234	-1.78E-02	1.18E-02	4.12E-02	pCi/m3	U
3298	705727010	12/23/2024	Thorium-234	-3.25E-03	6.72E-03	2.34E-02	pCi/m3	U
3298	657103005	1/24/2024	Uranium-234	7.01E-05	5.48E-04	1.79E-03	pCi/m3	U
3298	659590002	2/19/2024	Uranium-234	1.81E-03	7.75E-04	2.25E-03	pCi/m3	U
3298	663625005	3/18/2024	Uranium-234	3.62E-04	5.31E-04	1.78E-03	pCi/m3	U
3298	669420009	4/22/2024	Uranium-234	-2.75E-04	6.35E-04	2.00E-03	pCi/m3	U
3298	674390009	5/13/2024	Uranium-234	2.46E-03	9.56E-04	2.01E-03	pCi/m3	UI
3298	676202008	6/10/2024	Uranium-234	6.45E-04	7.75E-04	1.79E-03	pCi/m3	U
3298	682043010	7/8/2024	Uranium-234	1.65E-03	6.01E-04	2.33E-03	pCi/m3	U
3298	691726007	8/5/2024	Uranium-234	1.93E-03	1.24E-03	3.40E-03	pCi/m3	U
3298	691728010	9/3/2024	Uranium-234	7.28E-04	4.80E-04	1.56E-03	pCi/m3	U
3298	695498010	9/23/2024	Uranium-234	1.63E-04	4.81E-04	1.60E-03	pCi/m3	U
3298	702706010	10/28/2024	Uranium-234	1.33E-03	1.13E-03	2.02E-03	pCi/m3	U
3298	702707010	11/25/2024	Uranium-234	-1.04E-03	6.20E-04	1.87E-03	pCi/m3	U
3298	705727010	12/23/2024	Uranium-234	1.37E-03	6.62E-04	1.79E-03	pCi/m3	U
3298	657103005	1/24/2024	Zinc-65	-2.29E-04	6.38E-04	2.02E-03	pCi/m3	U
3298	659590002	2/19/2024	Zinc-65	3.26E-04	6.39E-04	2.26E-03	pCi/m3	U
3298	663625005	3/18/2024	Zinc-65	4.21E-04	6.23E-04	2.22E-03	pCi/m3	U
3298	669420009	4/22/2024	Zinc-65	8.68E-04	7.33E-04	2.65E-03	pCi/m3	U
3298	674390009	5/13/2024	Zinc-65	6.70E-05	6.62E-04	2.01E-03	pCi/m3	U
3298	676202008	6/10/2024	Zinc-65	2.05E-04	5.63E-04	1.97E-03	pCi/m3	U
3298	682043010	7/8/2024	Zinc-65	-7.36E-04	9.08E-04	2.64E-03	pCi/m3	U
3298	691726007	8/5/2024	Zinc-65	5.79E-04	1.16E-03	4.04E-03	pCi/m3	U

Table 10: Complete REMP Results – Air Particulate (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	691728010	9/3/2024	Zinc-65	-6.26E-05	3.61E-04	1.09E-03	pCi/m3	U
3298	695498010	9/23/2024	Zinc-65	-1.79E-04	5.62E-04	1.81E-03	pCi/m3	U
3298	702706010	10/28/2024	Zinc-65	1.24E-03	8.12E-04	3.12E-03	pCi/m3	U
3298	702707010	11/25/2024	Zinc-65	1.08E-03	4.97E-04	2.04E-03	pCi/m3	U
3298	705727010	12/23/2024	Zinc-65	-2.88E-04	5.40E-04	1.72E-03	pCi/m3	U
3298	657103005	1/24/2024	Zirconium-95	-3.33E-04	5.79E-04	1.77E-03	pCi/m3	U
3298	659590002	2/19/2024	Zirconium-95	-1.11E-03	7.20E-04	1.90E-03	pCi/m3	U
3298	663625005	3/18/2024	Zirconium-95	-7.03E-04	6.32E-04	1.82E-03	pCi/m3	U
3298	669420009	4/22/2024	Zirconium-95	4.47E-04	7.41E-04	2.62E-03	pCi/m3	U
3298	674390009	5/13/2024	Zirconium-95	4.02E-04	8.33E-04	2.82E-03	pCi/m3	U
3298	676202008	6/10/2024	Zirconium-95	1.29E-04	5.35E-04	1.77E-03	pCi/m3	U
3298	682043010	7/8/2024	Zirconium-95	2.97E-04	8.28E-04	2.64E-03	pCi/m3	U
3298	691726007	8/5/2024	Zirconium-95	-3.89E-04	2.08E-03	6.86E-03	pCi/m3	U
3298	691728010	9/3/2024	Zirconium-95	1.51E-03	6.70E-04	2.01E-03	pCi/m3	U
3298	695498010	9/23/2024	Zirconium-95	6.51E-04	6.03E-04	2.16E-03	pCi/m3	U
3298	702706010	10/28/2024	Zirconium-95	-3.54E-04	9.94E-04	3.06E-03	pCi/m3	U
3298	702707010	11/25/2024	Zirconium-95	-4.53E-04	7.60E-04	2.26E-03	pCi/m3	U
3298	705727010	12/23/2024	Zirconium-95	-1.69E-03	5.82E-04	1.29E-03	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	650210002	1/2/2024	Iodine-131	5.79E-03	4.80E-03	1.79E-02	pCi/m3	U
2102	650994002	1/8/2024	Iodine-131	-4.26E-03	3.01E-03	8.94E-03	pCi/m3	U
2102	651848004	1/17/2024	Iodine-131	-1.34E-03	1.94E-03	6.06E-03	pCi/m3	U
2102	652268002	1/24/2024	Iodine-131	-1.78E-04	2.60E-03	8.82E-03	pCi/m3	U
2102	653178002	1/29/2024	Iodine-131	8.51E-04	3.92E-03	1.33E-02	pCi/m3	U
2102	654187016	2/6/2024	Iodine-131	9.48E-04	2.52E-03	8.73E-03	pCi/m3	U
2102	655008002	2/13/2024	Iodine-131	1.88E-03	2.26E-03	7.67E-03	pCi/m3	U
2102	655819016	2/20/2024	Iodine-131	3.59E-03	2.08E-03	7.95E-03	pCi/m3	U
2102	656511002	2/26/2024	Iodine-131	1.89E-03	5.86E-03	2.01E-02	pCi/m3	U
2102	657416002	3/4/2024	Iodine-131	-2.84E-03	6.56E-03	1.86E-02	pCi/m3	U
2102	658450002	3/13/2024	Iodine-131	1.08E-03	2.97E-03	1.04E-02	pCi/m3	U
2102	659313014	3/20/2024	Iodine-131	-3.01E-03	2.96E-03	9.45E-03	pCi/m3	U
2102	660083020	3/27/2024	Iodine-131	-2.16E-04	2.50E-04	7.77E-04	pCi/m3	U
2102	660793014	4/2/2024	Iodine-131	-9.85E-03	8.34E-03	2.44E-02	pCi/m3	U
2102	662052002	4/8/2024	Iodine-131	1.15E-02	9.74E-03	3.59E-02	pCi/m3	U
2102	662074012	4/16/2024	Iodine-131	2.83E-02	9.13E-03	1.42E-02	pCi/m3	UI
2102	664092022	4/23/2024	Iodine-131	3.81E-03	3.67E-03	1.36E-02	pCi/m3	U
2102	665204012	4/29/2024	Iodine-131	-6.28E-05	6.65E-03	2.24E-02	pCi/m3	U
2102	666121006	5/6/2024	Iodine-131	-1.35E-03	3.57E-03	1.13E-02	pCi/m3	U
2102	667159014	5/14/2024	Iodine-131	5.07E-03	5.99E-03	2.08E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	668220005	5/20/2024	Iodine-131	5.10E-03	4.65E-03	1.76E-02	pCi/m3	U
2102	669062020	5/28/2024	Iodine-131	-3.46E-03	3.79E-03	1.14E-02	pCi/m3	U
2102	669755012	6/4/2024	Iodine-131	1.24E-02	6.22E-03	1.89E-02	pCi/m3	U
2102	670837002	6/10/2024	Iodine-131	-7.31E-03	5.07E-03	1.39E-02	pCi/m3	U
2102	671897002	6/17/2024	Iodine-131	1.73E-02	1.39E-02	5.74E-02	pCi/m3	U
2102	672773004	6/25/2024	Iodine-131	-7.14E-03	5.36E-03	1.43E-02	pCi/m3	U
2102	673676002	7/1/2024	Iodine-131	1.12E-02	1.24E-02	4.51E-02	pCi/m3	U
2102	674336002	7/9/2024	Iodine-131	-1.29E-02	7.32E-03	1.74E-02	pCi/m3	U
2102	675686004	7/15/2024	Iodine-131	-1.48E-03	1.07E-02	3.63E-02	pCi/m3	U
2102	676802004	7/23/2024	Iodine-131	3.69E-03	1.47E-02	5.21E-02	pCi/m3	U
2102	677970002	7/30/2024	Iodine-131	5.63E-03	1.23E-02	4.31E-02	pCi/m3	U
2102	679202010	8/5/2024	Iodine-131	-8.92E-03	1.06E-02	2.76E-02	pCi/m3	U
2102	680237008	8/13/2024	Iodine-131	-6.86E-03	3.77E-03	1.07E-02	pCi/m3	U
2102	681488002	8/19/2024	Iodine-131	-4.21E-04	2.32E-03	7.66E-03	pCi/m3	U
2102	682604020	8/27/2024	Iodine-131	1.03E-03	5.96E-03	2.06E-02	pCi/m3	U
2102	683692002	9/3/2024	Iodine-131	2.39E-03	3.45E-03	1.29E-02	pCi/m3	U
2102	684664002	9/10/2024	Iodine-131	6.78E-04	4.67E-03	1.57E-02	pCi/m3	U
2102	685842002	9/17/2024	Iodine-131	4.62E-03	5.70E-03	2.14E-02	pCi/m3	U
2102	686976014	9/24/2024	Iodine-131	5.26E-03	6.10E-03	2.25E-02	pCi/m3	U
2102	687851004	10/1/2024	Iodine-131	2.09E-03	3.88E-03	1.43E-02	pCi/m3	U
2102	689079002	10/8/2024	Iodine-131	3.62E-03	8.64E-03	3.10E-02	pCi/m3	U
2102	690093012	10/15/2024	Iodine-131	-1.43E-03	5.80E-03	1.89E-02	pCi/m3	U
2102	691165018	10/22/2024	Iodine-131	-2.48E-03	2.81E-03	8.24E-03	pCi/m3	U
2102	692327006	10/28/2024	Iodine-131	-9.82E-03	9.13E-03	2.56E-02	pCi/m3	U
2102	693531014	11/5/2024	Iodine-131	-3.86E-03	4.83E-03	1.45E-02	pCi/m3	U
2102	694911002	11/12/2024	Iodine-131	-1.18E-02	4.70E-03	9.07E-03	pCi/m3	U
2102	696166020	11/19/2024	Iodine-131	-1.07E-03	5.72E-03	1.78E-02	pCi/m3	U
2102	697367022	11/26/2024	Iodine-131	-4.32E-03	6.52E-03	2.01E-02	pCi/m3	U
2102	698165006	12/4/2024	Iodine-131	8.10E-03	1.76E-02	6.31E-02	pCi/m3	U
2102	699433010	12/10/2024	Iodine-131	-1.42E-02	9.10E-03	2.16E-02	pCi/m3	U
2102	700752022	12/17/2024	Iodine-131	-1.25E-02	8.88E-03	1.96E-02	pCi/m3	U
2102	701911014	12/25/2024	Iodine-131	5.28E-03	3.92E-03	1.60E-02	pCi/m3	U
2106	650210008	1/2/2024	Iodine-131	-1.74E-03	3.56E-03	1.17E-02	pCi/m3	U
2106	650994010	1/8/2024	Iodine-131	-7.08E-03	4.14E-03	1.09E-02	pCi/m3	U
2106	651848022	1/18/2024	Iodine-131	3.14E-03	1.90E-03	4.42E-03	pCi/m3	U
2106	652268004	1/23/2024	Iodine-131	-4.44E-03	2.86E-03	7.86E-03	pCi/m3	U
2106	653178024	1/29/2024	Iodine-131	-4.22E-04	2.85E-03	9.16E-03	pCi/m3	U
2106	654187018	2/6/2024	Iodine-131	1.03E-04	2.63E-03	8.97E-03	pCi/m3	U
2106	655008003	2/13/2024	Iodine-131	7.24E-04	2.63E-03	9.02E-03	pCi/m3	U
2106	655819018	2/21/2024	Iodine-131	-4.59E-04	2.54E-03	8.00E-03	pCi/m3	U
2106	656511006	2/26/2024	Iodine-131	2.75E-03	4.49E-03	1.50E-02	pCi/m3	U
2106	657416004	3/4/2024	Iodine-131	3.71E-03	5.94E-03	2.13E-02	pCi/m3	U
2106	658450004	3/12/2024	Iodine-131	5.64E-03	3.87E-03	1.45E-02	pCi/m3	U
2106	659313016	3/19/2024	Iodine-131	3.35E-04	2.12E-03	7.16E-03	pCi/m3	U
2106	660083002	3/26/2024	Iodine-131	-6.00E-03	5.30E-03	1.63E-02	pCi/m3	U
2106	660793004	4/1/2024	Iodine-131	-3.03E-03	6.61E-03	2.14E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	662052004	4/8/2024	Iodine-131	-1.09E-03	5.59E-03	1.64E-02	pCi/m3	U
2106	662074026	4/15/2024	Iodine-131	1.01E-04	3.93E-03	1.35E-02	pCi/m3	U
2106	664092017	4/23/2024	Iodine-131	-3.58E-03	3.59E-03	9.43E-03	pCi/m3	U
2106	665204016	4/29/2024	Iodine-131	5.10E-03	8.06E-03	2.91E-02	pCi/m3	U
2106	666121010	5/6/2024	Iodine-131	-1.24E-03	4.28E-03	1.31E-02	pCi/m3	U
2106	667159016	5/13/2024	Iodine-131	-2.55E-03	2.52E-03	6.74E-03	pCi/m3	U
2106	668220001	5/20/2024	Iodine-131	5.14E-03	3.04E-03	1.16E-02	pCi/m3	U
2106	669062018	5/28/2024	Iodine-131	1.05E-02	5.29E-03	2.07E-02	pCi/m3	U
2106	669755014	6/4/2024	Iodine-131	-2.98E-04	5.94E-03	1.76E-02	pCi/m3	U
2106	670837018	6/11/2024	Iodine-131	-6.78E-03	5.99E-03	1.79E-02	pCi/m3	U
2106	671897006	6/18/2024	Iodine-131	-1.59E-02	1.38E-02	2.60E-02	pCi/m3	U
2106	672773002	6/24/2024	Iodine-131	7.46E-03	8.59E-03	3.15E-02	pCi/m3	U
2106	673676004	7/1/2024	Iodine-131	5.08E-03	9.16E-03	3.09E-02	pCi/m3	U
2106	674336004	7/9/2024	Iodine-131	-1.82E-03	7.54E-03	2.44E-02	pCi/m3	U
2106	675686012	7/15/2024	Iodine-131	1.62E-02	1.12E-02	2.10E-02	pCi/m3	U
2106	676802008	7/23/2024	Iodine-131	1.03E-02	1.14E-02	4.31E-02	pCi/m3	U
2106	677970022	7/30/2024	Iodine-131	8.63E-03	9.71E-03	3.75E-02	pCi/m3	U
2106	679202012	8/6/2024	Iodine-131	-8.75E-03	6.51E-03	1.63E-02	pCi/m3	U
2106	680237012	8/13/2024	Iodine-131	6.58E-03	5.03E-03	1.79E-02	pCi/m3	U
2106	681488014	8/21/2024	Iodine-131	1.01E-03	2.28E-03	8.02E-03	pCi/m3	U
2106	682604018	8/27/2024	Iodine-131	1.12E-02	8.54E-03	3.21E-02	pCi/m3	U
2106	683692004	9/3/2024	Iodine-131	-2.19E-03	2.80E-03	7.83E-03	pCi/m3	U
2106	684664006	9/10/2024	Iodine-131	-1.89E-03	4.33E-03	1.37E-02	pCi/m3	U
2106	685842004	9/17/2024	Iodine-131	-3.83E-03	2.95E-03	7.64E-03	pCi/m3	U
2106	686976018	9/24/2024	Iodine-131	2.80E-03	6.94E-03	2.47E-02	pCi/m3	U
2106	687851008	10/1/2024	Iodine-131	-1.06E-02	4.34E-03	9.95E-03	pCi/m3	U
2106	689079004	10/8/2024	Iodine-131	-6.76E-03	6.23E-03	1.65E-02	pCi/m3	U
2106	690093013	10/15/2024	Iodine-131	-1.38E-02	5.98E-03	1.08E-02	pCi/m3	U
2106	691165014	10/22/2024	Iodine-131	4.21E-03	2.92E-03	1.17E-02	pCi/m3	U
2106	692327008	10/28/2024	Iodine-131	0.00E+00	9.85E-03	3.19E-02	pCi/m3	U
2106	693531012	11/4/2024	Iodine-131	-6.17E-03	5.52E-03	1.62E-02	pCi/m3	U
2106	694911006	11/12/2024	Iodine-131	-1.70E-03	3.79E-03	1.22E-02	pCi/m3	U
2106	696166024	11/20/2024	Iodine-131	2.01E-03	6.45E-03	2.24E-02	pCi/m3	U
2106	697367018	11/26/2024	Iodine-131	8.48E-04	6.78E-03	2.33E-02	pCi/m3	U
2106	698165010	12/8/2024	Iodine-131	-1.86E-03	9.90E-03	3.24E-02	pCi/m3	U
2106	699433004	12/10/2024	Iodine-131	-2.57E-03	4.64E-03	1.38E-02	pCi/m3	U
2106	700752028	12/17/2024	Iodine-131	-9.14E-03	6.03E-03	1.60E-02	pCi/m3	U
2106	701911012	12/25/2024	Iodine-131	-1.36E-03	3.18E-03	1.01E-02	pCi/m3	U
2107	650210006	1/2/2024	Iodine-131	-5.62E-03	5.28E-03	1.62E-02	pCi/m3	U
2107	650994006	1/8/2024	Iodine-131	3.89E-03	4.23E-03	1.56E-02	pCi/m3	U
2107	651848008	1/17/2024	Iodine-131	-8.02E-05	1.58E-03	5.33E-03	pCi/m3	U
2107	652268006	1/23/2024	Iodine-131	1.09E-03	2.29E-03	7.97E-03	pCi/m3	U
2107	653178022	1/29/2024	Iodine-131	-1.19E-03	2.95E-03	9.66E-03	pCi/m3	U
2107	654187020	2/6/2024	Iodine-131	-4.26E-05	2.23E-03	7.09E-03	pCi/m3	U
2107	655008006	2/13/2024	Iodine-131	-5.20E-05	2.41E-03	7.75E-03	pCi/m3	U
2107	655819020	2/20/2024	Iodine-131	8.30E-04	3.83E-03	1.28E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	656511008	2/26/2024	Iodine-131	5.90E-03	3.44E-03	1.32E-02	pCi/m3	U
2107	657416006	3/4/2024	Iodine-131	-3.33E-03	4.59E-03	1.43E-02	pCi/m3	U
2107	658450006	3/12/2024	Iodine-131	5.04E-04	3.11E-03	1.03E-02	pCi/m3	U
2107	659313018	3/19/2024	Iodine-131	-1.81E-04	2.49E-03	8.33E-03	pCi/m3	U
2107	660083015	3/27/2024	Iodine-131	1.28E-03	3.03E-03	1.08E-02	pCi/m3	U
2107	660793016	4/2/2024	Iodine-131	1.09E-02	9.23E-03	3.43E-02	pCi/m3	U
2107	662052006	4/8/2024	Iodine-131	4.52E-03	6.85E-03	2.33E-02	pCi/m3	U
2107	662074028	4/15/2024	Iodine-131	-4.37E-03	7.23E-03	2.35E-02	pCi/m3	U
2107	664092016	4/23/2024	Iodine-131	3.03E-03	4.62E-03	1.62E-02	pCi/m3	U
2107	665204022	4/30/2024	Iodine-131	1.19E-02	5.88E-03	2.38E-02	pCi/m3	U
2107	666121012	5/7/2024	Iodine-131	-3.67E-03	5.41E-03	1.70E-02	pCi/m3	U
2107	667159018	5/14/2024	Iodine-131	-5.52E-03	2.95E-03	7.46E-03	pCi/m3	U
2107	668220007	5/20/2024	Iodine-131	2.74E-03	6.89E-03	2.32E-02	pCi/m3	U
2107	669062014	5/28/2024	Iodine-131	4.07E-03	4.67E-03	1.71E-02	pCi/m3	U
2107	669755016	6/4/2024	Iodine-131	1.17E-02	6.23E-03	2.26E-02	pCi/m3	U
2107	670837020	6/11/2024	Iodine-131	2.43E-03	6.06E-03	2.12E-02	pCi/m3	U
2107	671897008	6/18/2024	Iodine-131	-9.74E-03	1.34E-02	3.79E-02	pCi/m3	U
2107	672773010	6/25/2024	Iodine-131	-4.62E-03	7.50E-03	2.20E-02	pCi/m3	U
2107	673676006	7/1/2024	Iodine-131	-1.72E-02	1.16E-02	3.25E-02	pCi/m3	U
2107	674336010	7/8/2024	Iodine-131	1.23E-03	7.27E-03	2.52E-02	pCi/m3	U
2107	675686010	7/15/2024	Iodine-131	-1.56E-02	1.25E-02	3.71E-02	pCi/m3	U
2107	676802018	7/23/2024	Iodine-131	1.95E-03	1.09E-02	3.82E-02	pCi/m3	U
2107	677970008	7/30/2024	Iodine-131	-1.03E-02	1.51E-02	4.79E-02	pCi/m3	U
2107	679202004	8/5/2024	Iodine-131	-7.62E-03	1.13E-02	3.39E-02	pCi/m3	U
2107	680237020	8/13/2024	Iodine-131	4.02E-03	3.54E-03	1.23E-02	pCi/m3	U
2107	681488012	8/20/2024	Iodine-131	7.84E-04	2.33E-03	8.00E-03	pCi/m3	U
2107	682604014	8/27/2024	Iodine-131	6.02E-03	9.06E-03	3.24E-02	pCi/m3	U
2107	683692008	9/4/2024	Iodine-131	3.95E-03	3.08E-03	1.22E-02	pCi/m3	U
2107	684664020	9/10/2024	Iodine-131	3.44E-03	5.55E-03	1.97E-02	pCi/m3	U
2107	685842012	9/17/2024	Iodine-131	-3.02E-03	4.59E-03	1.39E-02	pCi/m3	U
2107	686976020	9/24/2024	Iodine-131	3.68E-03	6.19E-03	2.21E-02	pCi/m3	U
2107	687851002	9/30/2024	Iodine-131	-1.38E-03	5.68E-03	1.85E-02	pCi/m3	U
2107	689079018	10/8/2024	Iodine-131	-2.41E-03	7.71E-03	2.21E-02	pCi/m3	U
2107	690093014	10/16/2024	Iodine-131	8.47E-04	4.25E-03	1.48E-02	pCi/m3	U
2107	691165020	10/22/2024	Iodine-131	-3.14E-03	4.77E-03	1.48E-02	pCi/m3	U
2107	692327010	10/28/2024	Iodine-131	3.44E-03	9.28E-03	3.32E-02	pCi/m3	U
2107	693531018	11/5/2024	Iodine-131	-3.21E-03	3.36E-03	9.58E-03	pCi/m3	U
2107	694911012	11/12/2024	Iodine-131	-2.86E-03	3.97E-03	1.19E-02	pCi/m3	U
2107	696166016	11/19/2024	Iodine-131	-2.41E-03	7.24E-03	2.33E-02	pCi/m3	U
2107	697367016	11/26/2024	Iodine-131	-2.57E-03	1.09E-02	3.59E-02	pCi/m3	U
2107	698165022	12/4/2024	Iodine-131	2.36E-02	1.35E-02	5.66E-02	pCi/m3	U
2107	699433002	12/9/2024	Iodine-131	-7.88E-03	1.48E-02	4.50E-02	pCi/m3	U
2107	700752002	12/17/2024	Iodine-131	-2.25E-03	8.11E-03	2.57E-02	pCi/m3	U
2107	701911020	12/25/2024	Iodine-131	-5.28E-03	3.34E-03	8.11E-03	pCi/m3	U
2112	650210024	1/2/2024	Iodine-131	-1.76E-03	4.23E-03	1.40E-02	pCi/m3	U
2112	650994016	1/8/2024	Iodine-131	5.01E-04	4.31E-03	1.49E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	651848020	1/18/2024	Iodine-131	-8.79E-04	1.99E-03	6.56E-03	pCi/m3	U
2112	652268008	1/24/2024	Iodine-131	1.93E-04	2.68E-03	9.10E-03	pCi/m3	U
2112	653178020	1/30/2024	Iodine-131	9.73E-04	3.12E-03	9.79E-03	pCi/m3	U
2112	654187022	2/6/2024	Iodine-131	-7.84E-04	4.29E-03	1.44E-02	pCi/m3	U
2112	655008008	2/13/2024	Iodine-131	-2.42E-03	2.29E-03	6.58E-03	pCi/m3	U
2112	655819022	2/20/2024	Iodine-131	-1.22E-03	2.40E-03	7.73E-03	pCi/m3	U
2112	656511010	2/27/2024	Iodine-131	-2.34E-03	3.73E-03	1.20E-02	pCi/m3	U
2112	657416008	3/4/2024	Iodine-131	-9.00E-03	6.00E-03	1.80E-02	pCi/m3	U
2112	658450008	3/12/2024	Iodine-131	1.80E-03	3.97E-03	1.36E-02	pCi/m3	U
2112	659313012	3/19/2024	Iodine-131	2.55E-03	3.42E-03	1.04E-02	pCi/m3	U
2112	660083004	3/26/2024	Iodine-131	5.79E-03	3.57E-03	1.31E-02	pCi/m3	U
2112	660793012	4/1/2024	Iodine-131	-2.21E-03	9.87E-03	3.31E-02	pCi/m3	U
2112	662052008	4/9/2024	Iodine-131	1.13E-03	5.75E-03	1.86E-02	pCi/m3	U
2112	662074022	4/16/2024	Iodine-131	-5.03E-03	7.84E-03	2.49E-02	pCi/m3	U
2112	664092012	4/23/2024	Iodine-131	1.95E-03	4.80E-03	1.66E-02	pCi/m3	U
2112	665204002	4/30/2024	Iodine-131	-1.31E-02	1.78E-02	5.50E-02	pCi/m3	U
2112	666121014	5/7/2024	Iodine-131	2.61E-03	4.83E-03	1.74E-02	pCi/m3	U
2112	667159020	5/13/2024	Iodine-131	1.01E-02	6.54E-03	2.42E-02	pCi/m3	U
2112	668220013	5/20/2024	Iodine-131	-2.66E-03	3.92E-03	1.20E-02	pCi/m3	U
2112	669062002	5/28/2024	Iodine-131	-2.21E-03	4.72E-03	1.54E-02	pCi/m3	U
2112	669755010	6/3/2024	Iodine-131	1.24E-02	9.73E-03	3.54E-02	pCi/m3	U
2112	670837022	6/11/2024	Iodine-131	2.00E-02	7.24E-03	2.55E-02	pCi/m3	U
2112	671897010	6/18/2024	Iodine-131	1.09E-02	1.68E-02	6.10E-02	pCi/m3	U
2112	672773014	6/25/2024	Iodine-131	-9.87E-03	8.97E-03	2.60E-02	pCi/m3	U
2112	673676020	7/2/2024	Iodine-131	6.64E-03	1.04E-02	3.61E-02	pCi/m3	U
2112	674336006	7/8/2024	Iodine-131	-1.22E-02	1.27E-02	3.79E-02	pCi/m3	U
2112	675686016	7/16/2024	Iodine-131	-5.65E-03	4.81E-03	1.38E-02	pCi/m3	U
2112	676802010	7/23/2024	Iodine-131	-7.91E-04	1.04E-02	3.44E-02	pCi/m3	U
2112	677970020	7/30/2024	Iodine-131	3.25E-03	8.41E-03	2.98E-02	pCi/m3	U
2112	679202014	8/6/2024	Iodine-131	-3.74E-03	7.05E-03	2.06E-02	pCi/m3	U
2112	680237014	8/13/2024	Iodine-131	-2.97E-03	3.92E-03	1.24E-02	pCi/m3	U
2112	681488008	8/20/2024	Iodine-131	-2.06E-03	1.77E-03	4.89E-03	pCi/m3	U
2112	682604002	8/27/2024	Iodine-131	2.80E-03	5.05E-03	1.83E-02	pCi/m3	U
2112	683692020	9/4/2024	Iodine-131	7.32E-03	3.73E-03	1.55E-02	pCi/m3	U
2112	684664018	9/10/2024	Iodine-131	-1.44E-03	5.04E-03	1.63E-02	pCi/m3	U
2112	685842024	9/17/2024	Iodine-131	6.40E-03	4.21E-03	1.69E-02	pCi/m3	U
2112	686976010	9/23/2024	Iodine-131	2.75E-03	8.29E-03	2.75E-02	pCi/m3	U
2112	687851020	10/1/2024	Iodine-131	-3.75E-03	2.42E-03	4.20E-03	pCi/m3	U
2112	689079006	10/8/2024	Iodine-131	-2.83E-03	9.91E-03	3.28E-02	pCi/m3	U
2112	690093015	10/15/2024	Iodine-131	-1.14E-02	8.11E-03	2.27E-02	pCi/m3	U
2112	691165012	10/22/2024	Iodine-131	4.98E-03	5.70E-03	2.13E-02	pCi/m3	U
2112	692327020	10/28/2024	Iodine-131	1.36E-04	1.18E-02	3.84E-02	pCi/m3	U
2112	693531010	11/4/2024	Iodine-131	-7.59E-03	6.49E-03	1.84E-02	pCi/m3	U
2112	694911022	11/13/2024	Iodine-131	2.36E-03	2.26E-03	9.00E-03	pCi/m3	U
2112	696166012	11/19/2024	Iodine-131	1.08E-02	1.02E-02	3.94E-02	pCi/m3	U
2112	697367010	11/25/2024	Iodine-131	-5.78E-03	1.31E-02	4.27E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	698165012	12/4/2024	Iodine-131	9.36E-04	1.70E-02	5.71E-02	pCi/m3	U
2112	699433022	12/10/2024	Iodine-131	5.42E-03	9.33E-03	3.30E-02	pCi/m3	U
2112	700752018	12/17/2024	Iodine-131	9.91E-03	7.09E-03	2.78E-02	pCi/m3	U
2112	701911009	12/24/2024	Iodine-131	6.61E-03	4.21E-03	1.68E-02	pCi/m3	U
2115	650210022	1/2/2024	Iodine-131	6.62E-04	3.66E-03	1.27E-02	pCi/m3	U
2115	650994012	1/8/2024	Iodine-131	-1.85E-04	2.70E-03	9.15E-03	pCi/m3	U
2115	651848010	1/17/2024	Iodine-131	-1.45E-03	2.02E-03	6.09E-03	pCi/m3	U
2115	652268010	1/23/2024	Iodine-131	-1.07E-03	2.99E-03	9.73E-03	pCi/m3	U
2115	653178018	1/30/2024	Iodine-131	-5.36E-03	2.86E-03	7.77E-03	pCi/m3	U
2115	654187014	2/6/2024	Iodine-131	-2.35E-03	2.48E-03	7.63E-03	pCi/m3	U
2115	655008010	2/13/2024	Iodine-131	3.02E-03	2.21E-03	8.27E-03	pCi/m3	U
2115	655819014	2/20/2024	Iodine-131	-6.20E-04	2.67E-03	8.78E-03	pCi/m3	U
2115	656511012	2/27/2024	Iodine-131	-9.61E-04	3.15E-03	1.04E-02	pCi/m3	U
2115	657416010	3/5/2024	Iodine-131	6.12E-04	4.52E-03	1.46E-02	pCi/m3	U
2115	658450010	3/12/2024	Iodine-131	5.79E-04	4.37E-03	1.43E-02	pCi/m3	U
2115	659313020	3/18/2024	Iodine-131	1.77E-03	3.71E-03	1.30E-02	pCi/m3	U
2115	660083014	3/27/2024	Iodine-131	3.01E-03	3.13E-03	1.15E-02	pCi/m3	U
2115	660793018	4/2/2024	Iodine-131	-1.86E-02	1.02E-02	2.77E-02	pCi/m3	U
2115	662052010	4/9/2024	Iodine-131	-8.55E-03	6.76E-03	1.85E-02	pCi/m3	U
2115	662074024	4/16/2024	Iodine-131	-3.76E-03	5.38E-03	1.62E-02	pCi/m3	U
2115	664092014	4/23/2024	Iodine-131	-1.66E-03	3.43E-03	1.05E-02	pCi/m3	U
2115	665204004	4/30/2024	Iodine-131	1.97E-03	7.74E-03	2.70E-02	pCi/m3	U
2115	666121002	5/6/2024	Iodine-131	3.17E-04	3.45E-03	1.19E-02	pCi/m3	U
2115	667159012	5/13/2024	Iodine-131	1.19E-03	4.41E-03	1.52E-02	pCi/m3	U
2115	668220011	5/20/2024	Iodine-131	5.44E-04	3.66E-03	1.25E-02	pCi/m3	U
2115	669062010	5/28/2024	Iodine-131	1.29E-03	6.05E-03	2.04E-02	pCi/m3	U
2115	669755018	6/3/2024	Iodine-131	1.68E-03	6.93E-03	2.34E-02	pCi/m3	U
2115	670837016	6/11/2024	Iodine-131	-1.48E-03	5.59E-03	1.65E-02	pCi/m3	U
2115	671897012	6/18/2024	Iodine-131	3.01E-02	1.18E-02	2.53E-02	pCi/m3	UI
2115	672773012	6/25/2024	Iodine-131	-1.06E-02	6.40E-03	1.77E-02	pCi/m3	U
2115	673676010	7/2/2024	Iodine-131	-3.60E-03	6.29E-03	1.90E-02	pCi/m3	U
2115	674336008	7/8/2024	Iodine-131	1.10E-02	1.06E-02	3.95E-02	pCi/m3	U
2115	675686006	7/15/2024	Iodine-131	3.91E-03	5.76E-03	2.04E-02	pCi/m3	U
2115	676802020	7/23/2024	Iodine-131	1.43E-02	1.01E-02	3.98E-02	pCi/m3	U
2115	677970010	7/30/2024	Iodine-131	-8.05E-04	9.99E-03	3.37E-02	pCi/m3	U
2115	679202002	8/5/2024	Iodine-131	1.26E-02	9.96E-03	3.79E-02	pCi/m3	U
2115	680237018	8/13/2024	Iodine-131	3.66E-05	2.34E-03	7.76E-03	pCi/m3	U
2115	681488010	8/20/2024	Iodine-131	-1.84E-03	1.89E-03	5.52E-03	pCi/m3	U
2115	682604012	8/27/2024	Iodine-131	-5.32E-03	5.41E-03	1.59E-02	pCi/m3	U
2115	684664008	9/10/2024	Iodine-131	7.86E-05	1.56E-04	5.72E-04	pCi/m3	U
2115	685842014	9/17/2024	Iodine-131	-4.19E-03	4.20E-03	1.23E-02	pCi/m3	U
2115	686976012	9/23/2024	Iodine-131	1.31E-03	8.06E-03	2.79E-02	pCi/m3	U
2115	687851022	10/2/2024	Iodine-131	6.17E-03	2.75E-03	1.14E-02	pCi/m3	U
2115	689079016	10/8/2024	Iodine-131	2.04E-02	8.23E-03	3.56E-02	pCi/m3	U
2115	690093016	10/16/2024	Iodine-131	-6.33E-03	5.10E-03	1.21E-02	pCi/m3	U
2115	691165002	10/22/2024	Iodine-131	1.99E-03	5.16E-03	1.78E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	692327016	10/28/2024	Iodine-131	-4.04E-03	1.04E-02	3.31E-02	pCi/m3	U
2115	693531020	11/5/2024	Iodine-131	-1.40E-03	4.83E-03	1.58E-02	pCi/m3	U
2115	694911024	11/13/2024	Iodine-131	6.64E-05	3.84E-03	1.27E-02	pCi/m3	U
2115	696166014	11/19/2024	Iodine-131	9.31E-03	9.47E-03	3.57E-02	pCi/m3	U
2115	697367014	11/26/2024	Iodine-131	5.08E-03	6.03E-03	2.30E-02	pCi/m3	U
2115	698165002	12/4/2024	Iodine-131	5.62E-03	1.70E-02	6.03E-02	pCi/m3	U
2115	699433024	12/10/2024	Iodine-131	-3.77E-03	8.33E-03	2.66E-02	pCi/m3	U
2115	700752008	12/17/2024	Iodine-131	-3.37E-03	1.30E-02	4.35E-02	pCi/m3	U
2115	701911017	12/25/2024	Iodine-131	2.76E-03	6.09E-03	2.20E-02	pCi/m3	U
2223	650210020	1/2/2024	Iodine-131	3.99E-03	4.02E-03	1.45E-02	pCi/m3	U
2223	650994018	1/8/2024	Iodine-131	8.51E-03	2.85E-03	1.20E-02	pCi/m3	U
2223	651848018	1/18/2024	Iodine-131	4.71E-05	1.27E-03	4.37E-03	pCi/m3	U
2223	652268014	1/24/2024	Iodine-131	-4.03E-04	2.85E-03	9.57E-03	pCi/m3	U
2223	653178006	1/30/2024	Iodine-131	-4.37E-04	2.83E-03	9.51E-03	pCi/m3	U
2223	654187002	2/6/2024	Iodine-131	1.52E-03	3.08E-03	1.09E-02	pCi/m3	U
2223	655008012	2/13/2024	Iodine-131	-6.17E-04	2.28E-03	7.56E-03	pCi/m3	U
2223	655819024	2/20/2024	Iodine-131	5.31E-03	3.71E-03	1.42E-02	pCi/m3	U
2223	656511014	2/27/2024	Iodine-131	-3.47E-03	3.94E-03	1.19E-02	pCi/m3	U
2223	657416012	3/4/2024	Iodine-131	1.07E-03	6.82E-03	2.33E-02	pCi/m3	U
2223	658450012	3/12/2024	Iodine-131	5.02E-03	3.61E-03	1.35E-02	pCi/m3	U
2223	659313022	3/19/2024	Iodine-131	-9.39E-04	4.36E-03	1.41E-02	pCi/m3	U
2223	660083006	3/26/2024	Iodine-131	1.03E-03	5.44E-03	1.86E-02	pCi/m3	U
2223	660793010	4/1/2024	Iodine-131	6.25E-03	1.25E-02	4.35E-02	pCi/m3	U
2223	662052012	4/9/2024	Iodine-131	2.22E-04	4.43E-03	1.44E-02	pCi/m3	U
2223	662074020	4/16/2024	Iodine-131	-1.17E-02	5.75E-03	1.68E-02	pCi/m3	U
2223	664092010	4/23/2024	Iodine-131	2.58E-03	3.84E-03	1.38E-02	pCi/m3	U
2223	665204006	4/30/2024	Iodine-131	-3.82E-03	5.67E-03	1.70E-02	pCi/m3	U
2223	666121016	5/7/2024	Iodine-131	-5.99E-03	3.73E-03	9.16E-03	pCi/m3	U
2223	667159022	5/13/2024	Iodine-131	-5.26E-03	5.78E-03	1.78E-02	pCi/m3	U
2223	668220017	5/20/2024	Iodine-131	2.49E-05	3.81E-03	1.26E-02	pCi/m3	U
2223	669062004	5/28/2024	Iodine-131	-1.20E-02	5.62E-03	1.50E-02	pCi/m3	U
2223	669755002	6/3/2024	Iodine-131	1.60E-02	7.78E-03	3.00E-02	pCi/m3	U
2223	670837024	6/11/2024	Iodine-131	-2.30E-03	5.74E-03	1.82E-02	pCi/m3	U
2223	671897014	6/18/2024	Iodine-131	1.84E-03	9.18E-03	3.25E-02	pCi/m3	U
2223	672773016	6/25/2024	Iodine-131	1.31E-04	5.83E-03	1.89E-02	pCi/m3	U
2223	673676018	7/2/2024	Iodine-131	-4.14E-03	6.88E-03	2.17E-02	pCi/m3	U
2223	674336022	7/8/2024	Iodine-131	1.29E-02	9.95E-03	3.70E-02	pCi/m3	U
2223	675686018	7/16/2024	Iodine-131	-6.17E-03	5.73E-03	1.81E-02	pCi/m3	U
2223	676802012	7/23/2024	Iodine-131	-1.81E-03	1.28E-02	4.23E-02	pCi/m3	U
2223	677970018	7/30/2024	Iodine-131	-1.86E-02	9.50E-03	2.38E-02	pCi/m3	U
2223	679202022	8/6/2024	Iodine-131	-6.42E-03	4.95E-03	1.18E-02	pCi/m3	U
2223	680237002	8/13/2024	Iodine-131	-3.20E-03	2.96E-03	9.03E-03	pCi/m3	U
2223	681488022	8/20/2024	Iodine-131	-1.56E-03	1.70E-03	5.20E-03	pCi/m3	U
2223	682604004	8/27/2024	Iodine-131	-5.42E-03	5.92E-03	1.67E-02	pCi/m3	U
2223	683692018	9/4/2024	Iodine-131	-1.58E-03	3.89E-03	1.19E-02	pCi/m3	U
2223	684664016	9/10/2024	Iodine-131	6.34E-03	3.05E-03	1.34E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	685842022	9/17/2024	Iodine-131	-2.61E-03	4.28E-03	1.35E-02	pCi/m3	U
2223	686976008	9/23/2024	Iodine-131	-1.60E-02	7.88E-03	1.64E-02	pCi/m3	U
2223	687851018	10/1/2024	Iodine-131	-6.45E-04	3.65E-03	1.21E-02	pCi/m3	U
2223	689079008	10/8/2024	Iodine-131	-4.19E-03	7.85E-03	2.46E-02	pCi/m3	U
2223	690093017	10/15/2024	Iodine-131	8.98E-03	5.88E-03	2.33E-02	pCi/m3	U
2223	691165010	10/22/2024	Iodine-131	2.65E-03	4.88E-03	1.72E-02	pCi/m3	U
2223	692327024	10/28/2024	Iodine-131	8.19E-03	8.91E-03	3.41E-02	pCi/m3	U
2223	693531008	11/4/2024	Iodine-131	5.32E-03	7.08E-03	2.60E-02	pCi/m3	U
2223	694911020	11/13/2024	Iodine-131	1.57E-03	2.53E-03	8.47E-03	pCi/m3	U
2223	696166010	11/19/2024	Iodine-131	1.61E-02	6.90E-03	3.05E-02	pCi/m3	U
2223	697367008	11/25/2024	Iodine-131	-4.55E-03	1.00E-02	3.06E-02	pCi/m3	U
2223	698165014	12/4/2024	Iodine-131	-5.72E-03	1.45E-02	4.72E-02	pCi/m3	U
2223	699433018	12/10/2024	Iodine-131	1.30E-02	7.01E-03	2.92E-02	pCi/m3	U
2223	700752016	12/17/2024	Iodine-131	-3.82E-03	7.15E-03	2.18E-02	pCi/m3	U
2223	701911008	12/24/2024	Iodine-131	7.38E-03	3.02E-03	1.24E-02	pCi/m3	U
2224	650210017	1/2/2024	Iodine-131	7.67E-03	3.38E-03	7.75E-03	pCi/m3	U
2224	650994022	1/8/2024	Iodine-131	-5.70E-03	3.35E-03	9.70E-03	pCi/m3	U
2224	651848014	1/18/2024	Iodine-131	-1.16E-03	1.10E-03	2.70E-03	pCi/m3	U
2224	652268018	1/24/2024	Iodine-131	-4.16E-03	2.50E-03	5.21E-03	pCi/m3	U
2224	653178008	1/30/2024	Iodine-131	3.39E-03	3.43E-03	1.18E-02	pCi/m3	U
2224	654187012	2/6/2024	Iodine-131	1.93E-03	3.05E-03	1.06E-02	pCi/m3	U
2224	655008014	2/13/2024	Iodine-131	2.50E-03	3.15E-03	1.02E-02	pCi/m3	U
2224	655819012	2/20/2024	Iodine-131	-8.46E-04	2.88E-03	9.48E-03	pCi/m3	U
2224	656511016	2/27/2024	Iodine-131	-1.69E-04	4.12E-03	1.32E-02	pCi/m3	U
2224	657416014	3/4/2024	Iodine-131	2.41E-03	3.90E-03	1.38E-02	pCi/m3	U
2224	658450014	3/12/2024	Iodine-131	-8.95E-04	2.55E-03	8.41E-03	pCi/m3	U
2224	659313010	3/19/2024	Iodine-131	-2.46E-05	3.37E-03	1.15E-02	pCi/m3	U
2224	660083008	3/26/2024	Iodine-131	8.48E-03	1.32E-02	1.55E-02	pCi/m3	U
2224	660793006	4/1/2024	Iodine-131	3.07E-03	6.15E-03	2.13E-02	pCi/m3	U
2224	662052014	4/9/2024	Iodine-131	-4.20E-03	3.90E-03	1.19E-02	pCi/m3	U
2224	662074016	4/16/2024	Iodine-131	-7.75E-03	6.70E-03	2.00E-02	pCi/m3	U
2224	664092008	4/23/2024	Iodine-131	-9.07E-04	3.67E-03	1.20E-02	pCi/m3	U
2224	665204008	4/30/2024	Iodine-131	2.11E-03	6.63E-03	2.32E-02	pCi/m3	U
2224	666121018	5/7/2024	Iodine-131	-2.42E-03	4.32E-03	1.34E-02	pCi/m3	U
2224	667159002	5/13/2024	Iodine-131	3.36E-03	6.50E-03	2.29E-02	pCi/m3	U
2224	668220021	5/20/2024	Iodine-131	-2.70E-03	4.03E-03	1.17E-02	pCi/m3	U
2224	669062006	5/28/2024	Iodine-131	4.09E-03	5.48E-03	1.97E-02	pCi/m3	U
2224	669755004	6/3/2024	Iodine-131	3.27E-03	9.08E-03	3.20E-02	pCi/m3	U
2224	670837012	6/11/2024	Iodine-131	3.43E-03	6.53E-03	2.08E-02	pCi/m3	U
2224	671897016	6/18/2024	Iodine-131	-1.81E-03	1.42E-02	4.71E-02	pCi/m3	U
2224	672773018	6/25/2024	Iodine-131	2.10E-03	8.87E-03	3.01E-02	pCi/m3	U
2224	673676016	7/2/2024	Iodine-131	7.65E-04	7.85E-03	2.65E-02	pCi/m3	U
2224	674336020	7/8/2024	Iodine-131	-1.10E-02	9.96E-03	2.67E-02	pCi/m3	U
2224	675686020	7/16/2024	Iodine-131	-1.44E-03	6.52E-03	2.15E-02	pCi/m3	U
2224	676802014	7/23/2024	Iodine-131	2.37E-03	1.83E-02	6.33E-02	pCi/m3	U
2224	677970016	7/30/2024	Iodine-131	-3.33E-03	9.91E-03	3.17E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	679202020	8/6/2024	Iodine-131	-2.84E-03	7.15E-03	2.00E-02	pCi/m3	U
2224	680237004	8/13/2024	Iodine-131	2.42E-03	3.84E-03	1.35E-02	pCi/m3	U
2224	681488018	8/20/2024	Iodine-131	2.23E-03	2.36E-03	8.48E-03	pCi/m3	U
2224	682604006	8/27/2024	Iodine-131	-8.25E-03	7.22E-03	1.96E-02	pCi/m3	U
2224	683692016	9/4/2024	Iodine-131	-1.18E-03	4.20E-03	1.39E-02	pCi/m3	U
2224	684664012	9/10/2024	Iodine-131	-6.15E-03	6.25E-03	1.81E-02	pCi/m3	U
2224	685842018	9/17/2024	Iodine-131	-5.93E-04	3.16E-03	9.78E-03	pCi/m3	U
2224	686976006	9/23/2024	Iodine-131	1.48E-02	9.08E-03	3.65E-02	pCi/m3	U
2224	687851016	10/1/2024	Iodine-131	-3.30E-03	5.21E-03	1.55E-02	pCi/m3	U
2224	689079010	10/8/2024	Iodine-131	2.38E-02	1.61E-02	2.77E-02	pCi/m3	U
2224	690093018	10/15/2024	Iodine-131	-4.57E-03	6.27E-03	1.94E-02	pCi/m3	U
2224	691165008	10/22/2024	Iodine-131	-7.81E-04	4.15E-03	1.36E-02	pCi/m3	U
2224	692327028	10/28/2024	Iodine-131	-6.97E-03	8.04E-03	2.31E-02	pCi/m3	U
2224	693531006	11/4/2024	Iodine-131	5.95E-04	5.10E-03	1.74E-02	pCi/m3	U
2224	694911018	11/13/2024	Iodine-131	9.59E-03	5.17E-03	9.99E-03	pCi/m3	U
2224	696166008	11/19/2024	Iodine-131	9.15E-04	7.23E-03	2.50E-02	pCi/m3	U
2224	697367004	11/25/2024	Iodine-131	2.04E-03	7.46E-03	2.27E-02	pCi/m3	U
2224	698165018	12/4/2024	Iodine-131	-8.45E-03	1.50E-02	4.62E-02	pCi/m3	U
2224	699433016	12/10/2024	Iodine-131	-4.35E-03	7.33E-03	2.07E-02	pCi/m3	U
2224	700752014	12/17/2024	Iodine-131	7.85E-03	6.45E-03	2.53E-02	pCi/m3	U
2224	701911006	12/24/2024	Iodine-131	3.47E-03	7.36E-03	2.54E-02	pCi/m3	U
2225	650210016	1/2/2024	Iodine-131	4.57E-03	4.24E-03	1.53E-02	pCi/m3	U
2225	650994024	1/8/2024	Iodine-131	-2.07E-04	4.19E-03	1.26E-02	pCi/m3	U
2225	651848016	1/18/2024	Iodine-131	-8.87E-04	1.39E-03	4.33E-03	pCi/m3	U
2225	652268020	1/24/2024	Iodine-131	-1.02E-04	2.59E-03	7.93E-03	pCi/m3	U
2225	653178010	1/30/2024	Iodine-131	-3.68E-03	2.51E-03	7.31E-03	pCi/m3	U
2225	654187003	2/6/2024	Iodine-131	1.11E-04	2.64E-03	8.44E-03	pCi/m3	U
2225	655008022	2/13/2024	Iodine-131	-1.42E-03	2.63E-03	8.32E-03	pCi/m3	U
2225	655819010	2/20/2024	Iodine-131	6.38E-04	2.63E-03	8.95E-03	pCi/m3	U
2225	656511018	2/27/2024	Iodine-131	6.77E-04	3.24E-03	1.08E-02	pCi/m3	U
2225	657416016	3/4/2024	Iodine-131	1.14E-03	4.74E-03	1.57E-02	pCi/m3	U
2225	658450016	3/12/2024	Iodine-131	7.00E-03	3.58E-03	1.45E-02	pCi/m3	U
2225	659313008	3/19/2024	Iodine-131	6.65E-04	2.90E-03	9.93E-03	pCi/m3	U
2225	660083010	3/26/2024	Iodine-131	-7.67E-03	3.96E-03	1.08E-02	pCi/m3	U
2225	660793008	4/1/2024	Iodine-131	-4.83E-03	4.69E-03	1.40E-02	pCi/m3	U
2225	662052016	4/9/2024	Iodine-131	-1.11E-03	3.51E-03	1.09E-02	pCi/m3	U
2225	662074018	4/16/2024	Iodine-131	8.81E-04	4.55E-03	1.59E-02	pCi/m3	U
2225	664092006	4/23/2024	Iodine-131	-7.72E-03	3.77E-03	9.82E-03	pCi/m3	U
2225	665204010	4/30/2024	Iodine-131	1.33E-03	5.96E-03	2.05E-02	pCi/m3	U
2225	666121020	5/7/2024	Iodine-131	5.19E-03	5.32E-03	1.95E-02	pCi/m3	U
2225	667159010	5/13/2024	Iodine-131	-4.37E-03	4.54E-03	1.37E-02	pCi/m3	U
2225	668220023	5/20/2024	Iodine-131	-2.10E-03	4.07E-03	1.30E-02	pCi/m3	U
2225	669062008	5/28/2024	Iodine-131	1.44E-03	4.88E-03	1.69E-02	pCi/m3	U
2225	669755006	6/3/2024	Iodine-131	1.05E-02	7.89E-03	2.96E-02	pCi/m3	U
2225	670837010	6/11/2024	Iodine-131	-8.18E-03	5.08E-03	1.33E-02	pCi/m3	U
2225	671897018	6/18/2024	Iodine-131	-4.15E-03	1.19E-02	3.71E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2225	672773020	6/25/2024	Iodine-131	-3.50E-03	4.88E-03	1.39E-02	pCi/m3	U
2225	673676014	7/2/2024	Iodine-131	1.44E-02	1.02E-02	3.97E-02	pCi/m3	U
2225	674336018	7/8/2024	Iodine-131	6.24E-03	8.07E-03	3.00E-02	pCi/m3	U
2225	675686022	7/16/2024	Iodine-131	-1.34E-04	1.97E-04	6.19E-04	pCi/m3	U
2225	676802016	7/23/2024	Iodine-131	1.29E-02	1.95E-02	6.79E-02	pCi/m3	U
2225	677970014	7/30/2024	Iodine-131	3.83E-04	1.21E-02	4.10E-02	pCi/m3	U
2225	679202018	8/6/2024	Iodine-131	-4.31E-03	6.60E-03	1.94E-02	pCi/m3	U
2225	680237006	8/13/2024	Iodine-131	1.53E-04	3.95E-03	1.26E-02	pCi/m3	U
2225	681488020	8/20/2024	Iodine-131	-2.73E-03	2.11E-03	6.29E-03	pCi/m3	U
2225	682604008	8/27/2024	Iodine-131	-5.80E-03	8.31E-03	2.51E-02	pCi/m3	U
2225	683692014	9/4/2024	Iodine-131	1.90E-03	3.50E-03	1.25E-02	pCi/m3	U
2225	684664014	9/10/2024	Iodine-131	-1.80E-04	3.96E-03	1.34E-02	pCi/m3	U
2225	685842020	9/17/2024	Iodine-131	-6.38E-03	3.10E-03	7.42E-03	pCi/m3	U
2225	686976004	9/23/2024	Iodine-131	8.87E-04	9.02E-03	2.77E-02	pCi/m3	U
2225	687851014	10/1/2024	Iodine-131	6.18E-03	3.59E-03	1.46E-02	pCi/m3	U
2225	689079012	10/8/2024	Iodine-131	-3.25E-03	7.31E-03	2.36E-02	pCi/m3	U
2225	690093019	10/15/2024	Iodine-131	-2.87E-03	6.67E-03	2.03E-02	pCi/m3	U
2225	691165006	10/22/2024	Iodine-131	-1.18E-03	4.61E-03	1.53E-02	pCi/m3	U
2225	692327032	10/28/2024	Iodine-131	-5.33E-03	7.94E-03	2.43E-02	pCi/m3	U
2225	693531004	11/4/2024	Iodine-131	-5.81E-03	5.12E-03	1.46E-02	pCi/m3	U
2225	694911016	11/13/2024	Iodine-131	-3.82E-03	2.59E-03	6.04E-03	pCi/m3	U
2225	696166005	11/20/2024	Iodine-131	-3.24E-04	6.82E-03	2.27E-02	pCi/m3	U
2225	697367006	11/25/2024	Iodine-131	7.75E-03	8.21E-03	3.13E-02	pCi/m3	U
2225	698165016	12/4/2024	Iodine-131	1.94E-03	2.04E-02	6.95E-02	pCi/m3	U
2225	699433014	12/10/2024	Iodine-131	1.08E-02	8.31E-03	3.33E-02	pCi/m3	U
2225	700752012	12/17/2024	Iodine-131	8.94E-03	6.96E-03	2.76E-02	pCi/m3	U
2225	701911004	12/24/2024	Iodine-131	-3.01E-03	4.05E-03	1.22E-02	pCi/m3	U
2229	650210004	1/2/2024	Iodine-131	-2.66E-03	3.52E-03	1.06E-02	pCi/m3	U
2229	650994004	1/8/2024	Iodine-131	-4.06E-03	2.15E-03	5.43E-03	pCi/m3	U
2229	651848002	1/17/2024	Iodine-131	-1.59E-03	2.13E-03	6.37E-03	pCi/m3	U
2229	652268022	1/24/2024	Iodine-131	1.33E-03	2.99E-03	1.03E-02	pCi/m3	U
2229	653178012	1/29/2024	Iodine-131	3.80E-03	2.87E-03	1.04E-02	pCi/m3	U
2229	654187010	2/6/2024	Iodine-131	5.88E-03	4.66E-03	1.73E-02	pCi/m3	U
2229	655008016	2/13/2024	Iodine-131	3.12E-03	2.16E-03	8.28E-03	pCi/m3	U
2229	655819008	2/21/2024	Iodine-131	4.25E-03	2.55E-03	1.01E-02	pCi/m3	U
2229	656511020	2/26/2024	Iodine-131	3.26E-04	5.79E-03	1.91E-02	pCi/m3	U
2229	659313006	3/2/2024	Iodine-131	-1.31E-02	1.87E-02	5.85E-02	pCi/m3	U
2229	657416020	3/4/2024	Iodine-131	1.13E-02	1.15E-02	1.97E-02	pCi/m3	U
2229	658450018	3/13/2024	Iodine-131	1.36E-02	5.38E-03	1.04E-02	pCi/m3	UI
2229	660083022	3/27/2024	Iodine-131	-2.44E-04	2.59E-04	7.09E-04	pCi/m3	U
2229	660793020	4/2/2024	Iodine-131	-2.62E-03	1.24E-02	4.15E-02	pCi/m3	U
2229	662052018	4/8/2024	Iodine-131	-5.00E-03	7.18E-03	2.26E-02	pCi/m3	U
2229	662074008	4/16/2024	Iodine-131	1.25E-02	4.78E-03	1.26E-02	pCi/m3	U
2229	664092020	4/23/2024	Iodine-131	2.76E-03	3.97E-03	1.42E-02	pCi/m3	U
2229	665204014	4/29/2024	Iodine-131	-1.11E-02	7.15E-03	1.98E-02	pCi/m3	U
2229	666121008	5/6/2024	Iodine-131	1.21E-02	5.40E-03	2.34E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	667159008	5/14/2024	Iodine-131	-3.68E-03	5.28E-03	1.63E-02	pCi/m3	U
2229	668220003	5/20/2024	Iodine-131	-3.84E-03	5.29E-03	1.63E-02	pCi/m3	U
2229	669062022	5/28/2024	Iodine-131	-2.88E-03	5.26E-03	1.69E-02	pCi/m3	U
2229	669755022	6/4/2024	Iodine-131	-4.23E-03	7.20E-03	2.23E-02	pCi/m3	U
2229	670837008	6/10/2024	Iodine-131	-2.07E-03	3.49E-03	1.12E-02	pCi/m3	U
2229	671897020	6/17/2024	Iodine-131	1.92E-02	1.38E-02	5.62E-02	pCi/m3	U
2229	672773006	6/25/2024	Iodine-131	-1.84E-03	8.99E-03	2.59E-02	pCi/m3	U
2229	673676022	7/1/2024	Iodine-131	-1.02E-02	9.96E-03	2.92E-02	pCi/m3	U
2229	674336016	7/9/2024	Iodine-131	-1.21E-03	7.63E-03	2.55E-02	pCi/m3	U
2229	675686002	7/15/2024	Iodine-131	4.29E-03	1.26E-02	4.33E-02	pCi/m3	U
2229	676802006	7/23/2024	Iodine-131	3.34E-03	1.29E-02	4.53E-02	pCi/m3	U
2229	677970004	7/30/2024	Iodine-131	1.98E-02	1.49E-02	5.72E-02	pCi/m3	U
2229	679202008	8/5/2024	Iodine-131	-5.97E-03	9.53E-03	2.93E-02	pCi/m3	U
2229	680237010	8/13/2024	Iodine-131	-2.97E-03	5.17E-03	1.59E-02	pCi/m3	U
2229	681488006	8/19/2024	Iodine-131	1.10E-03	3.08E-03	1.08E-02	pCi/m3	U
2229	682604022	8/27/2024	Iodine-131	-1.21E-02	6.49E-03	1.76E-02	pCi/m3	U
2229	683692006	9/3/2024	Iodine-131	9.14E-03	5.11E-03	2.08E-02	pCi/m3	U
2229	684664004	9/10/2024	Iodine-131	4.01E-04	5.72E-03	1.98E-02	pCi/m3	U
2229	685842006	9/17/2024	Iodine-131	1.52E-03	4.53E-03	1.50E-02	pCi/m3	U
2229	686976016	9/24/2024	Iodine-131	9.63E-03	7.15E-03	2.86E-02	pCi/m3	U
2229	687851006	10/1/2024	Iodine-131	-1.11E-02	4.48E-03	8.54E-03	pCi/m3	U
2229	689079020	10/8/2024	Iodine-131	-1.06E-02	7.87E-03	2.15E-02	pCi/m3	U
2229	690093020	10/15/2024	Iodine-131	9.06E-03	7.64E-03	2.95E-02	pCi/m3	U
2229	691165016	10/22/2024	Iodine-131	-1.98E-03	3.01E-03	8.74E-03	pCi/m3	U
2229	692327002	10/28/2024	Iodine-131	-3.64E-03	1.02E-02	3.31E-02	pCi/m3	U
2229	693531016	11/5/2024	Iodine-131	1.64E-03	3.53E-03	1.25E-02	pCi/m3	U
2229	694911008	11/12/2024	Iodine-131	-4.42E-03	4.50E-03	1.30E-02	pCi/m3	U
2229	696166022	11/20/2024	Iodine-131	-6.82E-03	7.72E-03	2.33E-02	pCi/m3	U
2229	697367020	11/26/2024	Iodine-131	3.41E-03	9.16E-03	3.17E-02	pCi/m3	U
2229	698165008	12/4/2024	Iodine-131	3.06E-03	1.81E-02	6.11E-02	pCi/m3	U
2229	699433008	12/10/2024	Iodine-131	3.94E-03	6.03E-03	2.07E-02	pCi/m3	U
2229	700752019	12/17/2024	Iodine-131	4.41E-04	6.14E-03	1.90E-02	pCi/m3	U
2229	701911015	12/25/2024	Iodine-131	-6.84E-03	4.52E-03	1.26E-02	pCi/m3	U
2233	650210014	1/2/2024	Iodine-131	-6.88E-04	3.25E-03	1.07E-02	pCi/m3	U
2233	650994026	1/8/2024	Iodine-131	7.95E-04	2.78E-03	9.72E-03	pCi/m3	U
2233	651848012	1/18/2024	Iodine-131	3.38E-03	1.72E-03	6.62E-03	pCi/m3	U
2233	652268024	1/24/2024	Iodine-131	-5.80E-03	3.00E-03	8.37E-03	pCi/m3	U
2233	653178014	1/31/2024	Iodine-131	-7.20E-04	2.20E-03	7.19E-03	pCi/m3	U
2233	654187008	2/6/2024	Iodine-131	-4.77E-03	3.22E-03	6.90E-03	pCi/m3	U
2233	655008018	2/13/2024	Iodine-131	-9.16E-04	2.00E-03	6.41E-03	pCi/m3	U
2233	655819006	2/20/2024	Iodine-131	1.08E-03	2.81E-03	9.68E-03	pCi/m3	U
2233	656511022	2/27/2024	Iodine-131	4.71E-03	2.65E-03	6.57E-03	pCi/m3	U
2233	657416017	3/4/2024	Iodine-131	-3.27E-03	3.63E-03	1.11E-02	pCi/m3	U
2233	658450022	3/12/2024	Iodine-131	1.21E-03	3.69E-03	1.27E-02	pCi/m3	U
2233	659313004	3/19/2024	Iodine-131	1.43E-03	2.88E-03	1.03E-02	pCi/m3	U
2233	660083012	3/26/2024	Iodine-131	5.94E-03	3.59E-03	1.17E-02	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	660793002	4/1/2024	Iodine-131	-2.27E-03	6.82E-03	2.26E-02	pCi/m3	U
2233	662052020	4/9/2024	Iodine-131	-2.82E-03	2.77E-03	8.22E-03	pCi/m3	U
2233	662074002	4/16/2024	Iodine-131	-3.28E-03	8.47E-03	1.74E-02	pCi/m3	U
2233	664092004	4/23/2024	Iodine-131	-5.53E-03	3.96E-03	1.17E-02	pCi/m3	U
2233	665204020	4/30/2024	Iodine-131	-1.17E-02	5.44E-03	1.61E-02	pCi/m3	U
2233	666121022	5/7/2024	Iodine-131	3.94E-03	3.79E-03	1.43E-02	pCi/m3	U
2233	667159006	5/13/2024	Iodine-131	-5.07E-03	6.78E-03	2.12E-02	pCi/m3	U
2233	668220027	5/20/2024	Iodine-131	-3.02E-03	3.99E-03	1.26E-02	pCi/m3	U
2233	669062012	5/28/2024	Iodine-131	3.87E-03	4.40E-03	1.51E-02	pCi/m3	U
2233	669755008	6/3/2024	Iodine-131	6.92E-03	6.38E-03	2.38E-02	pCi/m3	U
2233	670837006	6/11/2024	Iodine-131	6.14E-03	2.93E-03	1.14E-02	pCi/m3	U
2233	671897022	6/18/2024	Iodine-131	6.14E-03	1.35E-02	4.84E-02	pCi/m3	U
2233	672773022	6/25/2024	Iodine-131	1.84E-03	6.25E-03	2.19E-02	pCi/m3	U
2233	673676012	7/2/2024	Iodine-131	1.23E-02	8.75E-03	3.28E-02	pCi/m3	U
2233	674336014	7/8/2024	Iodine-131	1.65E-03	9.20E-03	3.22E-02	pCi/m3	U
2233	675686024	7/16/2024	Iodine-131	5.10E-03	4.93E-03	1.82E-02	pCi/m3	U
2233	676802022	7/23/2024	Iodine-131	-9.24E-03	1.35E-02	3.88E-02	pCi/m3	U
2233	677970012	7/30/2024	Iodine-131	-7.65E-03	1.35E-02	4.34E-02	pCi/m3	U
2233	679202016	8/6/2024	Iodine-131	-1.21E-02	7.61E-03	2.06E-02	pCi/m3	U
2233	680237016	8/13/2024	Iodine-131	9.39E-03	5.41E-03	1.39E-02	pCi/m3	U
2233	681488016	8/20/2024	Iodine-131	-2.69E-04	2.59E-03	8.31E-03	pCi/m3	U
2233	682604010	8/27/2024	Iodine-131	5.54E-03	7.36E-03	2.65E-02	pCi/m3	U
2233	683692012	9/4/2024	Iodine-131	3.71E-03	3.71E-03	1.41E-02	pCi/m3	U
2233	684664010	9/11/2024	Iodine-131	1.96E-04	4.93E-03	1.64E-02	pCi/m3	U
2233	685842016	9/17/2024	Iodine-131	-2.25E-03	5.52E-03	1.80E-02	pCi/m3	U
2233	686976002	9/23/2024	Iodine-131	-1.43E-03	7.31E-03	2.32E-02	pCi/m3	U
2233	687851012	10/1/2024	Iodine-131	9.04E-04	3.08E-03	1.08E-02	pCi/m3	U
2233	689079014	10/8/2024	Iodine-131	-3.98E-03	7.28E-03	2.27E-02	pCi/m3	U
2233	690093021	10/15/2024	Iodine-131	1.49E-02	8.88E-03	2.24E-02	pCi/m3	U
2233	691165004	10/22/2024	Iodine-131	9.96E-03	6.44E-03	2.46E-02	pCi/m3	U
2233	692327036	10/28/2024	Iodine-131	7.13E-03	8.04E-03	3.01E-02	pCi/m3	U
2233	693531002	11/4/2024	Iodine-131	1.48E-03	3.88E-03	1.41E-02	pCi/m3	U
2233	694911014	11/13/2024	Iodine-131	-3.67E-04	3.27E-03	1.10E-02	pCi/m3	U
2233	696166002	11/19/2024	Iodine-131	3.91E-03	8.71E-03	3.13E-02	pCi/m3	U
2233	697367002	11/25/2024	Iodine-131	1.46E-02	1.45E-02	5.42E-02	pCi/m3	U
2233	698165020	12/4/2024	Iodine-131	1.13E-02	1.70E-02	6.22E-02	pCi/m3	U
2233	699433012	12/10/2024	Iodine-131	-6.06E-03	8.60E-03	2.38E-02	pCi/m3	U
2233	700752010	12/17/2024	Iodine-131	-9.18E-03	7.92E-03	2.13E-02	pCi/m3	U
2233	701911002	12/24/2024	Iodine-131	-7.20E-03	5.85E-03	1.68E-02	pCi/m3	U
2234	650210012	1/2/2024	Iodine-131	4.97E-03	4.36E-03	1.60E-02	pCi/m3	U
2234	650994008	1/8/2024	Iodine-131	-1.03E-03	2.39E-03	7.63E-03	pCi/m3	U
2234	651848006	1/17/2024	Iodine-131	-1.03E-04	1.48E-03	4.94E-03	pCi/m3	U
2234	652268026	1/24/2024	Iodine-131	-5.35E-03	3.09E-03	7.55E-03	pCi/m3	U
2234	653178016	1/29/2024	Iodine-131	-2.69E-03	3.23E-03	9.41E-03	pCi/m3	U
2234	654187006	2/6/2024	Iodine-131	2.98E-03	1.95E-03	7.49E-03	pCi/m3	U
2234	655008020	2/13/2024	Iodine-131	3.41E-03	2.22E-03	8.50E-03	pCi/m3	U

Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	655819002	2/20/2024	Iodine-131	1.05E-03	2.74E-03	9.62E-03	pCi/m3	U
2234	656511024	2/27/2024	Iodine-131	1.24E-03	2.35E-03	8.37E-03	pCi/m3	U
2234	657416022	3/4/2024	Iodine-131	-9.86E-03	5.47E-03	1.44E-02	pCi/m3	U
2234	658450020	3/12/2024	Iodine-131	-1.11E-03	3.32E-03	1.11E-02	pCi/m3	U
2234	659313002	3/19/2024	Iodine-131	-2.46E-04	2.63E-03	8.68E-03	pCi/m3	U
2234	660083018	3/27/2024	Iodine-131	-6.13E-05	2.82E-03	9.46E-03	pCi/m3	U
2234	660793021	4/2/2024	Iodine-131	1.36E-03	7.95E-03	2.73E-02	pCi/m3	U
2234	662052022	4/9/2024	Iodine-131	-3.57E-03	5.30E-03	1.66E-02	pCi/m3	U
2234	662074014	4/16/2024	Iodine-131	9.72E-04	5.45E-03	1.85E-02	pCi/m3	U
2234	664092002	4/22/2024	Iodine-131	2.37E-03	3.87E-03	1.33E-02	pCi/m3	U
2234	665204018	4/30/2024	Iodine-131	-1.89E-04	3.57E-03	1.18E-02	pCi/m3	U
2234	666121004	5/6/2024	Iodine-131	-8.72E-05	4.80E-03	1.59E-02	pCi/m3	U
2234	667159004	5/14/2024	Iodine-131	1.35E-03	3.27E-03	1.14E-02	pCi/m3	U
2234	668220009	5/20/2024	Iodine-131	-1.51E-03	2.87E-03	8.40E-03	pCi/m3	U
2234	669062016	5/28/2024	Iodine-131	1.09E-03	4.48E-03	1.53E-02	pCi/m3	U
2234	669755020	6/4/2024	Iodine-131	-1.66E-03	4.56E-03	1.51E-02	pCi/m3	U
2234	670837004	6/11/2024	Iodine-131	2.22E-03	2.27E-03	8.14E-03	pCi/m3	U
2234	671897024	6/18/2024	Iodine-131	-1.32E-02	1.17E-02	2.91E-02	pCi/m3	U
2234	672773008	6/25/2024	Iodine-131	-3.52E-03	5.61E-03	1.73E-02	pCi/m3	U
2234	673676008	7/2/2024	Iodine-131	-3.34E-03	5.25E-03	1.59E-02	pCi/m3	U
2234	674336012	7/9/2024	Iodine-131	6.28E-03	6.70E-03	2.44E-02	pCi/m3	U
2234	675686014	7/15/2024	Iodine-131	-1.00E-03	6.83E-03	2.30E-02	pCi/m3	U
2234	676802002	7/22/2024	Iodine-131	4.25E-04	1.60E-02	5.35E-02	pCi/m3	U
2234	677970006	7/30/2024	Iodine-131	5.59E-03	7.48E-03	2.60E-02	pCi/m3	U
2234	679202006	8/5/2024	Iodine-131	-2.21E-02	1.14E-02	2.62E-02	pCi/m3	U
2234	680237022	8/13/2024	Iodine-131	-2.88E-03	4.19E-03	1.35E-02	pCi/m3	U
2234	681488004	8/19/2024	Iodine-131	4.45E-03	3.46E-03	1.26E-02	pCi/m3	U
2234	682604016	8/27/2024	Iodine-131	6.95E-03	4.48E-03	1.79E-02	pCi/m3	U
2234	683692010	9/4/2024	Iodine-131	2.53E-03	3.06E-03	1.13E-02	pCi/m3	U
2234	684664022	9/10/2024	Iodine-131	1.71E-03	3.83E-03	1.37E-02	pCi/m3	U
2234	685842008	9/17/2024	Iodine-131	-2.94E-03	4.04E-03	1.18E-02	pCi/m3	U
2234	686976022	9/24/2024	Iodine-131	-3.81E-03	4.73E-03	1.41E-02	pCi/m3	U
2234	687851010	10/1/2024	Iodine-131	-1.21E-04	2.97E-03	1.00E-02	pCi/m3	U
2234	689079022	10/9/2024	Iodine-131	2.73E-03	4.63E-03	1.70E-02	pCi/m3	U
2234	690093022	10/16/2024	Iodine-131	2.72E-03	4.47E-03	1.60E-02	pCi/m3	U
2234	691165022	10/22/2024	Iodine-131	-5.85E-03	3.73E-03	9.74E-03	pCi/m3	U
2234	692327012	10/28/2024	Iodine-131	1.37E-03	8.26E-03	2.80E-02	pCi/m3	U
2234	693531022	11/5/2024	Iodine-131	1.42E-02	5.57E-03	9.72E-03	pCi/m3	UI
2234	694911010	11/12/2024	Iodine-131	2.03E-03	4.23E-03	1.48E-02	pCi/m3	U
2234	696166018	11/19/2024	Iodine-131	1.71E-03	7.23E-03	2.54E-02	pCi/m3	U
2234	697367012	11/26/2024	Iodine-131	-4.67E-03	8.96E-03	2.81E-02	pCi/m3	U
2234	698165024	12/2/2024	Iodine-131	-1.42E-02	1.94E-02	6.18E-02	pCi/m3	U
2234	699433006	12/9/2024	Iodine-131	-1.07E-03	7.66E-03	2.53E-02	pCi/m3	U
2234	700752006	12/17/2024	Iodine-131	6.07E-04	8.86E-03	3.00E-02	pCi/m3	U
2234	701911022	12/25/2024	Iodine-131	2.93E-05	4.49E-03	1.55E-02	pCi/m3	U
3298	650220001	1/2/2024	Iodine-131	-5.30E-03	4.04E-03	1.17E-02	pCi/m3	U

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Table 11: Complete REMP Results – Radioiodine (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	650997024	1/8/2024	Iodine-131	3.86E-04	3.17E-03	1.09E-02	pCi/m3	U
3298	651850022	1/18/2024	Iodine-131	5.41E-03	4.68E-03	4.38E-03	pCi/m3	UI
3298	652271012	1/24/2024	Iodine-131	3.34E-03	2.39E-03	8.73E-03	pCi/m3	U
3298	653179002	1/29/2024	Iodine-131	-1.58E-03	1.76E-03	5.40E-03	pCi/m3	U
3298	654192004	2/5/2024	Iodine-131	3.88E-03	2.65E-03	9.44E-03	pCi/m3	U
3298	655009018	2/12/2024	Iodine-131	5.88E-04	3.05E-03	1.02E-02	pCi/m3	U
3298	655823004	2/19/2024	Iodine-131	-1.53E-03	2.37E-03	7.44E-03	pCi/m3	U
3298	656512020	2/26/2024	Iodine-131	-2.72E-03	2.06E-03	5.56E-03	pCi/m3	U
3298	657412020	3/4/2024	Iodine-131	-4.41E-03	4.03E-03	1.19E-02	pCi/m3	U
3298	658451020	3/11/2024	Iodine-131	-1.58E-04	4.40E-03	1.48E-02	pCi/m3	U
3298	659316010	3/18/2024	Iodine-131	2.08E-03	3.13E-03	1.13E-02	pCi/m3	U
3298	660084002	3/25/2024	Iodine-131	-2.50E-03	3.59E-03	1.13E-02	pCi/m3	U
3298	660799019	4/1/2024	Iodine-131	1.64E-03	1.66E-03	5.98E-03	pCi/m3	U
3298	662049022	4/8/2024	Iodine-131	-2.88E-03	3.42E-03	1.04E-02	pCi/m3	U
3298	662072033	4/15/2024	Iodine-131	2.30E-03	1.40E-03	5.43E-03	pCi/m3	U
3298	664093022	4/22/2024	Iodine-131	2.84E-04	3.88E-03	1.32E-02	pCi/m3	U
3298	665207002	4/29/2024	Iodine-131	4.07E-03	2.33E-03	8.90E-03	pCi/m3	U
3298	666125020	5/6/2024	Iodine-131	8.02E-03	6.05E-03	2.26E-02	pCi/m3	U
3298	667162020	5/13/2024	Iodine-131	3.73E-03	3.08E-03	5.76E-03	pCi/m3	U
3298	668221002	5/20/2024	Iodine-131	5.05E-03	4.66E-03	1.73E-02	pCi/m3	U
3298	669065018	5/28/2024	Iodine-131	2.40E-03	5.25E-03	1.77E-02	pCi/m3	U
3298	669758020	6/3/2024	Iodine-131	-6.42E-03	6.87E-03	2.18E-02	pCi/m3	U
3298	670840018	6/10/2024	Iodine-131	4.28E-03	3.04E-03	1.12E-02	pCi/m3	U
3298	671899022	6/18/2024	Iodine-131	3.64E-03	6.46E-03	2.35E-02	pCi/m3	U
3298	672776020	6/24/2024	Iodine-131	5.41E-03	6.22E-03	2.39E-02	pCi/m3	U
3298	673678014	7/2/2024	Iodine-131	-1.40E-02	9.22E-03	2.49E-02	pCi/m3	U
3298	674340020	7/8/2024	Iodine-131	-4.76E-03	1.00E-02	3.11E-02	pCi/m3	U
3298	675687004	7/15/2024	Iodine-131	-8.57E-03	9.12E-03	2.74E-02	pCi/m3	U
3298	676805020	7/22/2024	Iodine-131	1.92E-03	4.41E-03	1.64E-02	pCi/m3	U
3298	677971004	7/29/2024	Iodine-131	1.76E-02	1.06E-02	2.37E-02	pCi/m3	U
3298	679206014	8/5/2024	Iodine-131	-3.74E-03	4.77E-03	1.42E-02	pCi/m3	U
3298	680238020	8/13/2024	Iodine-131	-2.75E-03	3.24E-03	9.58E-03	pCi/m3	U
3298	681492002	8/19/2024	Iodine-131	1.48E-03	2.32E-03	8.29E-03	pCi/m3	U
3298	682605020	8/26/2024	Iodine-131	6.68E-03	4.22E-03	1.61E-02	pCi/m3	U
3298	683697020	9/3/2024	Iodine-131	7.47E-03	5.53E-03	1.20E-02	pCi/m3	U

Table 12: Complete REMP Results – Fish (pCi/m³)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514004	4/15/2024	Actinium-228	4.22E+00	1.17E+01	3.99E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514004	4/15/2024	Americium-241	-1.51E+01	6.32E+00	1.86E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Antimony-124	7.56E+00	9.01E+00	3.34E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Antimony-125	-5.32E+00	5.48E+00	1.70E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Barium-140	-2.56E+02	1.92E+02	5.64E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Beryllium-7	5.02E+01	3.49E+01	1.24E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Bismuth-214	-9.73E-01	5.45E+00	1.73E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cerium-141	-9.63E+00	9.69E+00	2.92E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cerium-144	1.64E+01	1.36E+01	4.55E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cesium-134	2.52E+00	2.66E+00	9.53E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cesium-137	2.65E+00	3.53E+00	7.13E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Chromium-51	1.96E+01	5.77E+01	1.97E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cobalt-57	-1.14E-01	1.67E+00	5.31E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cobalt-58	4.12E+00	3.23E+00	1.11E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cobalt-60	-4.34E+00	3.24E+00	7.44E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Iron-59	-1.09E+00	1.17E+01	3.84E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Lanthanum-140	2.18E+01	5.56E+01	1.88E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Lead-210	-1.65E+02	1.36E+02	4.13E+02	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514004	4/15/2024	Lead-212	5.57E+00	5.95E+00	1.23E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Lead-214	2.32E+00	4.91E+00	1.63E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Manganese-54	1.23E+00	2.64E+00	9.16E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Molybdenum-99	-1.17E+07	6.12E+07	0.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Niobium-95	1.06E+00	4.60E+00	1.41E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Potassium-40	3.57E+03	1.40E+02	4.20E+01	pCi/kg	
Chickamauga (TRM485)/2160	668514004	4/15/2024	Radium-226	2.32E+00	4.91E+00	1.63E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Radium-228	4.22E+00	1.17E+01	3.99E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Ruthenium-103	6.08E-02	5.61E+00	1.83E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Ruthenium-106	-1.37E+01	2.09E+01	6.36E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Selenium-75	5.87E+00	3.27E+00	1.19E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Silver-108m	3.73E-01	1.62E+00	5.41E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Silver-110m	6.09E-01	3.43E+00	1.04E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Tellurium-132	-3.76E+05	6.20E+05	0.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thallium-208	1.16E+00	2.70E+00	8.34E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thorium-228	5.57E+00	5.95E+00	1.23E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thorium-230	2.32E+00	4.91E+00	1.63E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thorium-232	4.22E+00	1.17E+01	3.99E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thorium-234	8.79E+01	8.24E+01	1.96E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Uranium-234	2.32E+00	4.91E+00	1.63E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Zinc-65	-3.47E+00	7.17E+00	2.29E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Zirconium-95	1.05E+01	6.97E+00	2.40E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Actinium-228	-2.30E+01	9.69E+00	2.44E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Americium-241	6.04E+00	8.57E+00	2.73E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Antimony-124	-5.23E-01	6.98E+00	2.24E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Antimony-125	8.40E+00	4.76E+00	1.77E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Barium-140	3.05E+00	1.66E+02	4.90E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Beryllium-7	6.29E+00	3.13E+01	1.05E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Bismuth-214	-5.79E+00	4.63E+00	1.31E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cerium-141	-2.26E+01	1.03E+01	2.88E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cerium-144	1.21E+01	1.25E+01	4.20E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cesium-134	1.33E+00	2.71E+00	8.64E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cesium-137	3.17E+00	2.34E+00	8.28E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Chromium-51	5.92E+01	5.44E+01	1.96E+02	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cobalt-57	-1.53E+00	1.59E+00	4.89E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cobalt-58	5.45E+00	3.71E+00	1.33E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cobalt-60	4.41E+00	2.44E+00	9.43E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Iron-59	-1.37E+01	1.01E+01	2.97E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Lanthanum-140	-4.43E+01	5.13E+01	1.44E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Lead-210	-3.50E+02	2.60E+02	8.18E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Lead-212	-2.68E+00	4.15E+00	1.29E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Lead-214	1.41E+01	6.82E+00	1.59E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Manganese-54	5.68E+00	2.24E+00	8.68E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Molybdenum-99	-3.00E+07	5.17E+07	0.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Niobium-95	2.17E+00	3.55E+00	1.20E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Potassium-40	3.64E+03	1.35E+02	5.77E+01	pCi/kg	
Chickamauga (TRM485)/2160	668514005	4/15/2024	Radium-226	1.41E+01	6.82E+00	1.59E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Radium-228	-2.30E+01	9.69E+00	2.44E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Ruthenium-103	1.47E+00	4.08E+00	1.39E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Ruthenium-106	2.54E+01	1.95E+01	6.95E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Selenium-75	1.95E+00	2.99E+00	1.06E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514005	4/15/2024	Silver-108m	-7.25E-01	1.54E+00	4.72E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Silver-110m	-6.18E+00	3.51E+00	9.21E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Tellurium-132	2.68E+05	6.94E+05	0.00E+00	pCi/kg	UI
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thallium-208	5.62E+00	3.21E+00	5.47E+00	pCi/kg	UI
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thorium-228	-2.68E+00	4.15E+00	1.29E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thorium-230	1.41E+01	6.82E+00	1.59E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thorium-232	-2.30E+01	9.69E+00	2.44E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thorium-234	5.08E+01	1.19E+02	2.21E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Uranium-234	1.41E+01	6.82E+00	1.59E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Zinc-65	-2.90E+00	5.71E+00	1.84E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Zirconium-95	3.38E+00	5.78E+00	1.96E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Actinium-228	-5.63E+00	9.87E+00	3.12E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Americium-241	-3.76E+00	1.09E+01	3.62E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Antimony-124	1.48E+00	6.88E+00	2.34E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Antimony-125	-4.41E+00	4.79E+00	1.51E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Barium-140	8.99E+02	3.27E+02	6.91E+02	pCi/kg	UI
Chickamauga (TRM485)/2160	668514006	4/15/2024	Beryllium-7	2.73E+01	3.13E+01	1.11E+02	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514006	4/15/2024	Bismuth-214	1.96E-01	5.25E+00	1.59E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cerium-141	-3.77E+01	1.09E+01	2.85E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cerium-144	8.05E+00	1.26E+01	4.24E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cesium-134	3.19E+00	2.76E+00	9.72E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cesium-137	1.13E+00	2.34E+00	7.93E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Chromium-51	-3.76E+01	6.81E+01	2.27E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cobalt-57	7.82E-01	1.68E+00	5.62E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cobalt-58	5.92E+00	3.20E+00	1.16E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cobalt-60	-2.06E+00	2.46E+00	7.43E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Iron-59	1.11E+01	1.24E+01	4.47E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Lanthanum-140	-1.84E+01	5.47E+01	1.70E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Lead-210	-4.16E+02	3.99E+02	1.20E+03	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Lead-212	-2.32E+00	4.58E+00	1.47E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Lead-214	1.17E+01	5.97E+00	1.60E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Manganese-54	-1.81E+00	2.37E+00	7.06E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Molybdenum-99	-3.57E+07	5.98E+07	0.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Niobium-95	3.24E+00	3.40E+00	1.20E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514006	4/15/2024	Potassium-40	3.60E+03	1.46E+02	8.28E+01	pCi/kg	
Chickamauga (TRM485)/2160	668514006	4/15/2024	Radium-226	1.17E+01	5.97E+00	1.60E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Radium-228	-5.63E+00	9.87E+00	3.12E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Ruthenium-103	-2.37E+00	5.21E+00	1.69E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Ruthenium-106	8.68E+00	2.13E+01	7.22E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Selenium-75	-5.67E+00	3.83E+00	9.67E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Silver-108m	-3.40E-01	1.55E+00	5.15E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Silver-110m	8.97E-01	3.42E+00	1.12E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Tellurium-132	8.18E+05	6.59E+05	0.00E+00	pCi/kg	UI
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thallium-208	-3.64E+00	2.40E+00	6.74E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thorium-228	-2.32E+00	4.58E+00	1.47E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thorium-230	1.17E+01	5.97E+00	1.60E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thorium-232	-5.63E+00	9.87E+00	3.12E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thorium-234	-3.53E+02	1.15E+02	3.27E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Uranium-234	1.17E+01	5.97E+00	1.60E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Zinc-65	8.00E+00	6.91E+00	2.51E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Zirconium-95	-4.67E+00	6.12E+00	1.83E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	696990003	10/2/2024	Actinium-228	5.00E+00	1.08E+01	3.26E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Americium-241	1.06E+01	5.17E+00	1.78E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Antimony-124	-6.62E+00	8.44E+00	2.48E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Antimony-125	-5.38E+00	5.12E+00	1.58E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Barium-140	-6.39E+02	3.93E+02	1.14E+03	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Beryllium-7	7.01E-01	3.76E+01	1.11E+02	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Bismuth-214	1.36E+01	9.11E+00	1.29E+01	pCi/kg	UI
Chickamauga (TRM485)/2160	696990003	10/2/2024	Cerium-141	-3.12E+01	1.33E+01	3.47E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Cerium-144	-3.14E+00	1.27E+01	4.03E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Cesium-134	2.32E+00	2.44E+00	8.77E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Cesium-137	5.78E+00	2.22E+00	8.35E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Chromium-51	-8.33E+00	7.66E+01	2.57E+02	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Cobalt-57	-1.59E+00	1.58E+00	4.89E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Cobalt-58	3.11E+00	3.38E+00	1.22E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Cobalt-60	-2.14E+00	2.50E+00	7.38E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Iron-59	1.40E+01	1.34E+01	4.77E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Lanthanum-140	8.14E+01	1.23E+02	4.45E+02	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	696990003	10/2/2024	Lead-210	4.17E+01	1.02E+02	3.39E+02	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Lead-212	-6.34E+00	3.60E+00	1.15E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Lead-214	-4.66E+00	4.50E+00	1.45E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Manganese-54	-5.23E-02	2.29E+00	7.72E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Molybdenum-99	-1.06E+09	1.56E+09	0.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Niobium-95	-2.61E+00	3.90E+00	1.26E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Potassium-40	3.30E+03	1.29E+02	6.36E+01	pCi/kg	
Chickamauga (TRM485)/2160	696990003	10/2/2024	Radium-226	-4.66E+00	4.50E+00	1.45E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Radium-228	5.00E+00	1.08E+01	3.26E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Ruthenium-103	-5.27E+00	6.29E+00	1.94E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Ruthenium-106	1.07E+00	2.07E+01	6.68E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Selenium-75	3.44E+00	3.33E+00	1.09E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Silver-108m	-1.08E+00	1.63E+00	4.51E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Silver-110m	7.66E-01	2.94E+00	1.01E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Tellurium-132	1.76E+07	1.36E+07	0.00E+00	pCi/kg	UI
Chickamauga (TRM485)/2160	696990003	10/2/2024	Thallium-208	-1.44E+00	2.21E+00	6.55E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Thorium-228	-6.34E+00	3.60E+00	1.15E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	696990003	10/2/2024	Thorium-230	-4.66E+00	4.50E+00	1.45E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Thorium-232	5.00E+00	1.08E+01	3.26E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Thorium-234	1.06E+01	9.00E+01	1.57E+02	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Uranium-234	-4.66E+00	4.50E+00	1.45E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Zinc-65	-1.24E+01	6.13E+00	1.67E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990003	10/2/2024	Zirconium-95	6.53E+00	6.60E+00	2.40E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Actinium-228	1.13E+01	1.51E+01	2.64E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Americium-241	3.30E+00	7.35E+00	2.52E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Antimony-124	-3.21E+00	8.28E+00	2.53E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Antimony-125	-5.96E-01	4.26E+00	1.42E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Barium-140	-5.94E+01	2.75E+02	8.95E+02	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Beryllium-7	-5.13E+01	3.10E+01	9.11E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Bismuth-214	-2.78E+00	4.37E+00	1.37E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Cerium-141	-2.23E+01	1.01E+01	2.93E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Cerium-144	1.83E+01	1.03E+01	3.63E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Cesium-134	-2.33E+00	1.97E+00	5.61E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Cesium-137	2.94E-01	1.70E+00	5.62E+00	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	696990004	10/3/2024	Chromium-51	9.28E+01	6.55E+01	2.41E+02	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Cobalt-57	5.34E-01	1.27E+00	4.22E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Cobalt-58	-2.71E+00	3.40E+00	1.01E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Cobalt-60	-4.36E+00	1.96E+00	4.72E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Iron-59	-1.35E+00	1.21E+01	4.04E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Lanthanum-140	9.36E+01	9.14E+01	3.41E+02	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Lead-210	-1.18E+01	2.26E+02	7.35E+02	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Lead-212	7.19E-01	6.09E+00	1.17E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Lead-214	1.39E+00	3.60E+00	1.24E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Manganese-54	-2.74E+00	1.86E+00	5.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Molybdenum-99	5.68E+08	1.23E+09	0.00E+00	pCi/kg	UI
Chickamauga (TRM485)/2160	696990004	10/3/2024	Niobium-95	1.71E+00	3.93E+00	1.27E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Potassium-40	3.10E+03	1.17E+02	3.96E+01	pCi/kg	
Chickamauga (TRM485)/2160	696990004	10/3/2024	Radium-226	1.39E+00	3.60E+00	1.24E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Radium-228	1.13E+01	1.51E+01	2.64E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Ruthenium-103	-2.77E+00	5.00E+00	1.60E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Ruthenium-106	1.81E+01	1.91E+01	6.10E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	696990004	10/3/2024	Selenium-75	2.42E+00	2.80E+00	9.25E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Silver-108m	-3.34E+00	1.38E+00	3.89E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Silver-110m	-6.98E-01	3.49E+00	1.09E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Tellurium-132	1.68E+07	8.23E+06	0.00E+00	pCi/kg	UI
Chickamauga (TRM485)/2160	696990004	10/3/2024	Thallium-208	8.53E-01	1.98E+00	6.40E+00	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Thorium-228	7.19E-01	6.09E+00	1.17E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Thorium-230	1.39E+00	3.60E+00	1.24E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Thorium-232	1.13E+01	1.51E+01	2.64E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Thorium-234	-1.52E+02	7.16E+01	2.46E+02	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Uranium-234	1.39E+00	3.60E+00	1.24E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Zinc-65	-1.90E+00	5.69E+00	1.87E+01	pCi/kg	U
Chickamauga (TRM485)/2160	696990004	10/3/2024	Zirconium-95	-4.83E-01	6.39E+00	2.05E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Actinium-228	6.23E+00	1.52E+01	5.25E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Americium-241	-2.30E+00	1.59E+01	5.43E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Antimony-124	-1.37E+01	1.24E+01	3.29E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Antimony-125	2.56E+00	7.04E+00	2.30E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Barium-140	-1.06E+02	2.67E+02	8.65E+02	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	668514001	4/11/2024	Beryllium-7	-5.48E+01	3.61E+01	1.06E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Bismuth-214	-5.59E+00	6.19E+00	1.67E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Cerium-141	-7.89E+00	1.20E+01	3.68E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Cerium-144	-6.21E+00	1.47E+01	4.62E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Cesium-134	-2.68E+00	3.27E+00	9.62E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Cesium-137	5.22E-01	2.84E+00	9.42E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Chromium-51	3.85E+01	8.70E+01	2.93E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Cobalt-57	4.16E+00	2.67E+00	7.27E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Cobalt-58	4.13E+00	5.17E+00	1.85E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Cobalt-60	4.21E+00	3.72E+00	1.37E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Iron-59	2.31E+01	3.47E+01	6.46E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Lanthanum-140	-5.77E+01	1.04E+02	3.14E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Lead-210	2.73E+02	6.79E+02	2.43E+03	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Lead-212	-9.33E-01	4.62E+00	1.52E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Lead-214	-5.61E+00	6.05E+00	1.82E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Manganese-54	1.62E+00	3.13E+00	1.10E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Molybdenum-99	-4.39E+08	2.13E+08	0.00E+00	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	668514001	4/11/2024	Niobium-95	8.06E+00	5.30E+00	1.78E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Potassium-40	3.14E+03	1.63E+02	7.56E+01	pCi/kg	UI
Chickamauga (TRM528)/3261	668514001	4/11/2024	Radium-226	-5.61E+00	6.05E+00	1.82E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Radium-228	6.23E+00	1.52E+01	5.25E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Ruthenium-103	2.59E+00	7.09E+00	2.18E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Ruthenium-106	2.81E+01	2.97E+01	1.01E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Selenium-75	3.80E+00	4.41E+00	1.54E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Silver-108m	-3.70E+00	2.30E+00	6.35E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Silver-110m	4.36E+00	4.71E+00	1.69E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Tellurium-132	6.90E+05	1.79E+06	0.00E+00	pCi/kg	UI
Chickamauga (TRM528)/3261	668514001	4/11/2024	Thallium-208	-5.60E+00	3.44E+00	1.06E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Thorium-228	-9.33E-01	4.62E+00	1.52E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Thorium-230	-5.61E+00	6.05E+00	1.82E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Thorium-232	6.23E+00	1.52E+01	5.25E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Thorium-234	2.77E+02	2.35E+02	4.42E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Uranium-234	-5.61E+00	6.05E+00	1.82E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514001	4/11/2024	Zinc-65	-2.35E+00	1.03E+01	3.32E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	668514001	4/11/2024	Zirconium-95	-2.71E+00	9.15E+00	2.87E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Actinium-228	-2.52E+01	9.83E+00	2.89E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Americium-241	-1.04E+00	9.56E+00	3.16E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Antimony-124	8.73E+00	7.64E+00	2.89E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Antimony-125	6.58E-01	5.49E+00	1.84E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Barium-140	2.25E+01	5.33E+01	1.65E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Beryllium-7	3.83E+01	2.54E+01	9.33E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Bismuth-214	-4.06E-01	5.25E+00	1.70E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Cerium-141	-7.03E+00	7.50E+00	2.16E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Cerium-144	-7.40E+00	1.35E+01	4.23E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Cesium-134	-1.47E+00	2.59E+00	7.74E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Cesium-137	2.62E+00	2.38E+00	8.39E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Chromium-51	-9.32E+00	3.80E+01	1.27E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Cobalt-57	-8.98E-01	1.60E+00	4.99E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Cobalt-58	-1.91E+00	3.58E+00	1.02E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Cobalt-60	-1.38E+00	2.28E+00	6.87E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Iron-59	1.45E+01	9.72E+00	3.61E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	668514002	5/6/2024	Lanthanum-140	-1.95E+01	1.40E+01	2.76E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Lead-210	9.24E+01	2.85E+02	9.20E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Lead-212	1.12E+01	7.74E+00	1.70E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Lead-214	5.25E+00	5.26E+00	1.78E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Manganese-54	1.21E+00	2.59E+00	8.56E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Molybdenum-99	-3.01E+05	2.99E+05	0.00E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Niobium-95	3.01E+00	3.29E+00	1.14E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Potassium-40	3.22E+03	1.44E+02	5.78E+01	pCi/kg	
Chickamauga (TRM528)/3261	668514002	5/6/2024	Radium-226	5.25E+00	5.26E+00	1.78E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Radium-228	-2.52E+01	9.83E+00	2.89E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Ruthenium-103	-3.50E+00	3.88E+00	1.19E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Ruthenium-106	3.88E+00	2.19E+01	6.45E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Selenium-75	2.92E+00	3.01E+00	1.08E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Silver-108m	-1.18E+00	1.79E+00	5.67E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Silver-110m	3.41E+00	3.83E+00	1.38E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Tellurium-132	2.73E+03	7.77E+03	0.00E+00	pCi/kg	UI
Chickamauga (TRM528)/3261	668514002	5/6/2024	Thallium-208	-3.00E+00	2.60E+00	7.86E+00	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	668514002	5/6/2024	Thorium-228	1.12E+01	7.74E+00	1.70E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Thorium-230	5.25E+00	5.26E+00	1.78E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Thorium-232	-2.52E+01	9.83E+00	2.89E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Thorium-234	-1.66E+02	9.72E+01	3.07E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Uranium-234	5.25E+00	5.26E+00	1.78E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Zinc-65	2.89E+00	6.10E+00	2.12E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514002	5/6/2024	Zirconium-95	-1.97E+00	7.09E+00	1.94E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Actinium-228	-3.76E+00	1.02E+01	3.13E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Americium-241	-1.43E+00	1.08E+01	3.60E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Antimony-124	-1.66E+00	7.09E+00	2.24E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Antimony-125	-8.83E+00	6.14E+00	1.90E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Barium-140	-2.09E+01	5.20E+01	1.68E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Beryllium-7	-5.22E+00	2.52E+01	8.35E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Bismuth-214	1.21E+00	5.65E+00	1.82E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Cerium-141	7.33E+00	6.03E+00	2.06E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Cerium-144	-1.35E+01	1.33E+01	4.12E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Cesium-134	-6.20E-01	3.25E+00	1.04E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	668514003	5/9/2024	Cesium-137	1.75E-01	2.64E+00	8.71E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Chromium-51	8.38E+00	4.08E+01	1.41E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Cobalt-57	-2.29E+00	1.80E+00	5.54E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Cobalt-58	-8.23E-01	2.98E+00	9.37E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Cobalt-60	-2.73E+00	2.45E+00	7.13E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Iron-59	1.56E+00	8.91E+00	3.06E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Lanthanum-140	-2.77E+01	1.60E+01	3.74E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Lead-210	-5.42E+02	3.35E+02	1.00E+03	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Lead-212	1.71E+01	8.31E+00	1.16E+01	pCi/kg	UI
Chickamauga (TRM528)/3261	668514003	5/9/2024	Lead-214	9.41E+00	7.71E+00	2.02E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Manganese-54	-5.12E+00	2.95E+00	8.20E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Molybdenum-99	-3.87E+05	1.42E+05	0.00E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Niobium-95	-2.80E+00	4.03E+00	1.21E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Potassium-40	3.19E+03	1.39E+02	5.75E+01	pCi/kg	
Chickamauga (TRM528)/3261	668514003	5/9/2024	Radium-226	9.41E+00	7.71E+00	2.02E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Radium-228	-3.76E+00	1.02E+01	3.13E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Ruthenium-103	-5.52E+00	3.40E+00	1.00E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	668514003	5/9/2024	Ruthenium-106	2.23E+01	2.06E+01	7.33E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Selenium-75	-8.14E-02	3.60E+00	1.13E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Silver-108m	-4.66E-01	2.07E+00	6.43E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Silver-110m	-4.65E+00	4.06E+00	1.18E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Tellurium-132	-2.33E+03	4.15E+03	0.00E+00	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Thallium-208	7.60E+00	2.96E+00	7.36E+00	pCi/kg	UI
Chickamauga (TRM528)/3261	668514003	5/9/2024	Thorium-228	1.71E+01	8.31E+00	1.16E+01	pCi/kg	UI
Chickamauga (TRM528)/3261	668514003	5/9/2024	Thorium-230	9.40E+00	7.71E+00	2.02E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Thorium-232	-3.76E+00	1.02E+01	3.13E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Thorium-234	-8.11E+01	1.02E+02	3.26E+02	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Uranium-234	9.40E+00	7.71E+00	2.02E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Zinc-65	-1.96E+00	7.48E+00	1.96E+01	pCi/kg	U
Chickamauga (TRM528)/3261	668514003	5/9/2024	Zirconium-95	-4.14E+00	6.27E+00	1.93E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Actinium-228	-6.98E+00	1.20E+01	3.70E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Americium-241	-1.71E+01	1.20E+01	3.87E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Antimony-124	3.00E-01	8.52E+00	2.85E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Antimony-125	-5.31E+00	6.42E+00	2.01E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	696990001	10/9/2024	Barium-140	-6.50E+02	3.36E+02	9.31E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Beryllium-7	-1.63E+01	4.15E+01	1.32E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Bismuth-214	9.29E+00	5.85E+00	1.83E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Cerium-141	-6.57E+00	1.16E+01	3.67E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Cerium-144	9.88E+00	1.52E+01	4.79E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Cesium-134	1.11E+00	2.71E+00	9.44E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Cesium-137	5.40E+00	2.67E+00	9.90E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Chromium-51	-8.39E+01	8.19E+01	2.61E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Cobalt-57	4.18E-01	1.98E+00	6.58E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Cobalt-58	-2.84E+00	4.12E+00	1.30E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Cobalt-60	7.79E+00	3.69E+00	1.41E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Iron-59	-3.08E+01	1.72E+01	4.73E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Lanthanum-140	-3.48E+01	9.38E+01	2.95E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Lead-210	1.20E+02	4.05E+02	1.32E+03	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Lead-212	-6.32E+00	4.43E+00	1.42E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Lead-214	4.38E+00	5.98E+00	1.99E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Manganese-54	-3.86E-01	2.69E+00	8.94E+00	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	696990001	10/9/2024	Molybdenum-99	-2.32E+08	3.87E+08	0.00E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Niobium-95	-1.15E+00	4.66E+00	1.55E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Potassium-40	3.49E+03	1.60E+02	9.78E+01	pCi/kg	
Chickamauga (TRM528)/3261	696990001	10/9/2024	Radium-226	4.38E+00	5.98E+00	1.99E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Radium-228	-6.98E+00	1.20E+01	3.70E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Ruthenium-103	9.08E+00	1.07E+01	2.67E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Ruthenium-106	-8.70E+00	2.59E+01	7.64E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Selenium-75	2.26E+00	3.74E+00	1.33E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Silver-108m	2.00E-01	2.03E+00	6.78E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Silver-110m	2.30E+00	4.13E+00	1.45E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Tellurium-132	6.12E+04	3.33E+06	0.00E+00	pCi/kg	UI
Chickamauga (TRM528)/3261	696990001	10/9/2024	Thallium-208	-1.39E+00	2.77E+00	8.40E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Thorium-228	-6.32E+00	4.43E+00	1.42E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Thorium-230	4.38E+00	5.98E+00	1.99E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Thorium-232	-6.98E+00	1.20E+01	3.70E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Thorium-234	1.11E+02	1.66E+02	3.57E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Uranium-234	4.38E+00	5.98E+00	1.99E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	696990001	10/9/2024	Zinc-65	-1.19E+01	8.14E+00	2.31E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990001	10/9/2024	Zirconium-95	-8.82E+00	8.51E+00	2.64E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Actinium-228	-2.43E+01	1.29E+01	3.87E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Americium-241	-6.52E+00	8.35E+00	2.69E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Antimony-124	-1.25E+00	9.37E+00	2.94E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Antimony-125	-6.77E+00	5.34E+00	1.62E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Barium-140	-2.18E+01	2.54E+02	8.28E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Beryllium-7	-1.60E+01	4.03E+01	1.30E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Bismuth-214	-7.84E-01	4.95E+00	1.61E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Cerium-141	3.54E+00	1.36E+01	2.89E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Cerium-144	1.21E+01	1.22E+01	4.15E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Cesium-134	-1.77E+00	2.72E+00	8.10E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Cesium-137	8.08E+00	4.91E+00	6.71E+00	pCi/kg	UI
Chickamauga (TRM528)/3261	696990002	10/9/2024	Chromium-51	-1.08E+01	8.54E+01	2.59E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Cobalt-57	-2.17E+00	1.56E+00	4.67E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Cobalt-58	4.88E+00	4.51E+00	1.57E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Cobalt-60	-1.94E+00	2.61E+00	7.82E+00	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	696990002	10/9/2024	Iron-59	-1.66E+01	1.44E+01	4.33E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Lanthanum-140	4.38E+00	8.01E+01	2.62E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Lead-210	-6.13E+02	2.92E+02	8.54E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Lead-212	8.65E+00	7.45E+00	1.58E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Lead-214	9.88E+00	7.53E+00	1.72E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Manganese-54	-3.02E+00	2.14E+00	4.98E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Molybdenum-99	1.07E+09	4.17E+08	0.00E+00	pCi/kg	UI
Chickamauga (TRM528)/3261	696990002	10/9/2024	Niobium-95	5.05E-01	5.00E+00	1.61E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Potassium-40	3.10E+03	1.45E+02	6.87E+01	pCi/kg	
Chickamauga (TRM528)/3261	696990002	10/9/2024	Radium-226	9.88E+00	7.53E+00	1.72E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Radium-228	-2.43E+01	1.29E+01	3.87E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Ruthenium-103	-7.02E-01	5.39E+00	1.76E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Ruthenium-106	-4.17E+01	1.97E+01	5.00E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Selenium-75	4.16E+00	3.09E+00	1.14E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Silver-108m	5.58E-01	1.66E+00	5.68E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Silver-110m	-1.08E+00	4.15E+00	1.38E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Tellurium-132	5.96E+06	3.22E+06	0.00E+00	pCi/kg	UI

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM528)/3261	696990002	10/9/2024	Thallium-208	2.07E+00	2.91E+00	4.74E+00	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Thorium-228	8.65E+00	7.45E+00	1.58E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Thorium-230	9.88E+00	7.53E+00	1.72E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Thorium-232	-2.43E+01	1.29E+01	3.87E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Thorium-234	-1.02E+02	8.40E+01	2.70E+02	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Uranium-234	9.88E+00	7.53E+00	1.72E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Zinc-65	6.17E+00	7.25E+00	2.43E+01	pCi/kg	U
Chickamauga (TRM528)/3261	696990002	10/9/2024	Zirconium-95	-8.75E+00	8.05E+00	2.30E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Actinium-228	4.22E+00	1.17E+01	3.99E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Americium-241	-1.51E+01	6.32E+00	1.86E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Antimony-124	7.56E+00	9.01E+00	3.34E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Antimony-125	-5.32E+00	5.48E+00	1.70E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Barium-140	-2.56E+02	1.92E+02	5.64E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Beryllium-7	5.02E+01	3.49E+01	1.24E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Bismuth-214	-9.73E-01	5.45E+00	1.73E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cerium-141	-9.63E+00	9.69E+00	2.92E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cerium-144	1.64E+01	1.36E+01	4.55E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cesium-134	2.52E+00	2.66E+00	9.53E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cesium-137	2.65E+00	3.53E+00	7.13E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Chromium-51	1.96E+01	5.77E+01	1.97E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cobalt-57	-1.14E-01	1.67E+00	5.31E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cobalt-58	4.12E+00	3.23E+00	1.11E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Cobalt-60	-4.34E+00	3.24E+00	7.44E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Iron-59	-1.09E+00	1.17E+01	3.84E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Lanthanum-140	2.18E+01	5.56E+01	1.88E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Lead-210	-1.65E+02	1.36E+02	4.13E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Lead-212	5.57E+00	5.95E+00	1.23E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Lead-214	2.32E+00	4.91E+00	1.63E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Manganese-54	1.23E+00	2.64E+00	9.16E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Molybdenum-99	-1.17E+07	6.12E+07	0.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Niobium-95	1.06E+00	4.60E+00	1.41E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Potassium-40	3.57E+03	1.40E+02	4.20E+01	pCi/kg	
Chickamauga (TRM485)/2160	668514004	4/15/2024	Radium-226	2.32E+00	4.91E+00	1.63E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Radium-228	4.22E+00	1.17E+01	3.99E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514004	4/15/2024	Ruthenium-103	6.08E-02	5.61E+00	1.83E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Ruthenium-106	-1.37E+01	2.09E+01	6.36E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Selenium-75	5.87E+00	3.27E+00	1.19E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Silver-108m	3.73E-01	1.62E+00	5.41E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Silver-110m	6.09E-01	3.43E+00	1.04E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Tellurium-132	-3.76E+05	6.20E+05	0.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thallium-208	1.16E+00	2.70E+00	8.34E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thorium-228	5.57E+00	5.95E+00	1.23E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thorium-230	2.32E+00	4.91E+00	1.63E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thorium-232	4.22E+00	1.17E+01	3.99E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Thorium-234	8.79E+01	8.24E+01	1.96E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Uranium-234	2.32E+00	4.91E+00	1.63E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Zinc-65	-3.47E+00	7.17E+00	2.29E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514004	4/15/2024	Zirconium-95	1.05E+01	6.97E+00	2.40E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Actinium-228	-2.30E+01	9.69E+00	2.44E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Americium-241	6.04E+00	8.57E+00	2.73E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Antimony-124	-5.23E-01	6.98E+00	2.24E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514005	4/15/2024	Antimony-125	8.40E+00	4.76E+00	1.77E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Barium-140	3.05E+00	1.66E+02	4.90E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Beryllium-7	6.29E+00	3.13E+01	1.05E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Bismuth-214	-5.79E+00	4.63E+00	1.31E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cerium-141	-2.26E+01	1.03E+01	2.88E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cerium-144	1.21E+01	1.25E+01	4.20E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cesium-134	1.33E+00	2.71E+00	8.64E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cesium-137	3.17E+00	2.34E+00	8.28E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Chromium-51	5.92E+01	5.44E+01	1.96E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cobalt-57	-1.53E+00	1.59E+00	4.89E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cobalt-58	5.45E+00	3.71E+00	1.33E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Cobalt-60	4.41E+00	2.44E+00	9.43E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Iron-59	-1.37E+01	1.01E+01	2.97E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Lanthanum-140	-4.43E+01	5.13E+01	1.44E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Lead-210	-3.50E+02	2.60E+02	8.18E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Lead-212	-2.68E+00	4.15E+00	1.29E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Lead-214	1.41E+01	6.82E+00	1.59E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514005	4/15/2024	Manganese-54	5.68E+00	2.24E+00	8.68E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Molybdenum-99	-3.00E+07	5.17E+07	0.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Niobium-95	2.17E+00	3.55E+00	1.20E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Potassium-40	3.64E+03	1.35E+02	5.77E+01	pCi/kg	
Chickamauga (TRM485)/2160	668514005	4/15/2024	Radium-226	1.41E+01	6.82E+00	1.59E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Radium-228	-2.30E+01	9.69E+00	2.44E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Ruthenium-103	1.47E+00	4.08E+00	1.39E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Ruthenium-106	2.54E+01	1.95E+01	6.95E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Selenium-75	1.95E+00	2.99E+00	1.06E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Silver-108m	-7.25E-01	1.54E+00	4.72E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Silver-110m	-6.18E+00	3.51E+00	9.21E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Tellurium-132	2.68E+05	6.94E+05	0.00E+00	pCi/kg	UI
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thallium-208	5.62E+00	3.21E+00	5.47E+00	pCi/kg	UI
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thorium-228	-2.68E+00	4.15E+00	1.29E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thorium-230	1.41E+01	6.82E+00	1.59E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thorium-232	-2.30E+01	9.69E+00	2.44E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Thorium-234	5.08E+01	1.19E+02	2.21E+02	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514005	4/15/2024	Uranium-234	1.41E+01	6.82E+00	1.59E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Zinc-65	-2.90E+00	5.71E+00	1.84E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514005	4/15/2024	Zirconium-95	3.38E+00	5.78E+00	1.96E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Actinium-228	-5.63E+00	9.87E+00	3.12E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Americium-241	-3.76E+00	1.09E+01	3.62E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Antimony-124	1.48E+00	6.88E+00	2.34E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Antimony-125	-4.41E+00	4.79E+00	1.51E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Barium-140	8.99E+02	3.27E+02	6.91E+02	pCi/kg	UI
Chickamauga (TRM485)/2160	668514006	4/15/2024	Beryllium-7	2.73E+01	3.13E+01	1.11E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Bismuth-214	1.96E-01	5.25E+00	1.59E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cerium-141	-3.77E+01	1.09E+01	2.85E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cerium-144	8.05E+00	1.26E+01	4.24E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cesium-134	3.19E+00	2.76E+00	9.72E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cesium-137	1.13E+00	2.34E+00	7.93E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Chromium-51	-3.76E+01	6.81E+01	2.27E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cobalt-57	7.82E-01	1.68E+00	5.62E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cobalt-58	5.92E+00	3.20E+00	1.16E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514006	4/15/2024	Cobalt-60	-2.06E+00	2.46E+00	7.43E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Iron-59	1.11E+01	1.24E+01	4.47E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Lanthanum-140	-1.84E+01	5.47E+01	1.70E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Lead-210	-4.16E+02	3.99E+02	1.20E+03	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Lead-212	-2.32E+00	4.58E+00	1.47E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Lead-214	1.17E+01	5.97E+00	1.60E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Manganese-54	-1.81E+00	2.37E+00	7.06E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Molybdenum-99	-3.57E+07	5.98E+07	0.00E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Niobium-95	3.24E+00	3.40E+00	1.20E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Potassium-40	3.60E+03	1.46E+02	8.28E+01	pCi/kg	
Chickamauga (TRM485)/2160	668514006	4/15/2024	Radium-226	1.17E+01	5.97E+00	1.60E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Radium-228	-5.63E+00	9.87E+00	3.12E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Ruthenium-103	-2.37E+00	5.21E+00	1.69E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Ruthenium-106	8.68E+00	2.13E+01	7.22E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Selenium-75	-5.67E+00	3.83E+00	9.67E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Silver-108m	-3.40E-01	1.55E+00	5.15E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Silver-110m	8.97E-01	3.42E+00	1.12E+01	pCi/kg	U

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Table 12: Complete REMP Results – Fish (pCi/m ³)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
Chickamauga (TRM485)/2160	668514006	4/15/2024	Tellurium-132	8.18E+05	6.59E+05	0.00E+00	pCi/kg	UI
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thallium-208	-3.64E+00	2.40E+00	6.74E+00	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thorium-228	-2.32E+00	4.58E+00	1.47E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thorium-230	1.17E+01	5.97E+00	1.60E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thorium-232	-5.63E+00	9.87E+00	3.12E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Thorium-234	-3.53E+02	1.15E+02	3.27E+02	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Uranium-234	1.17E+01	5.97E+00	1.60E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Zinc-65	8.00E+00	6.91E+00	2.51E+01	pCi/kg	U
Chickamauga (TRM485)/2160	668514006	4/15/2024	Zirconium-95	-4.67E+00	6.12E+00	1.83E+01	pCi/kg	U

Table 13: Complete REMP Results – Food Products (pCi/kg)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2116.3	680239001	8/12/2024	Actinium-228	1.02E+00	1.40E+01	4.61E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Americium-241	-6.34E+00	1.25E+01	4.08E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Antimony-124	3.42E+00	4.39E+00	1.72E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Antimony-125	7.73E-01	7.13E+00	2.42E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Barium-140	-3.95E+00	2.90E+01	9.55E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Beryllium-7	-9.37E+00	2.73E+01	8.94E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Bismuth-214	1.62E+01	7.84E+00	2.42E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Cerium-141	7.15E-01	5.22E+00	1.70E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Cerium-144	-4.12E+00	1.68E+01	5.40E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Cesium-134	2.85E-01	3.54E+00	1.16E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Cesium-137	-5.11E-01	3.21E+00	9.53E+00	pCi/kg	U
2116.3	680239001	8/12/2024	Chromium-51	2.87E+01	3.12E+01	1.12E+02	pCi/kg	U
2116.3	680239001	8/12/2024	Cobalt-57	-1.85E+00	1.88E+00	5.81E+00	pCi/kg	U
2116.3	680239001	8/12/2024	Cobalt-58	-9.49E-01	3.55E+00	1.12E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Cobalt-60	-2.26E+00	2.82E+00	8.40E+00	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2116.3	680239001	8/12/2024	Iodine-131	-1.16E+01	1.14E+01	3.63E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Iron-59	-1.08E+01	6.96E+00	1.98E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Lanthanum-140	2.75E-02	6.92E+00	2.28E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Lead-210	2.42E+02	4.15E+02	1.34E+03	pCi/kg	U
2116.3	680239001	8/12/2024	Lead-212	1.17E+01	7.27E+00	1.88E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Lead-214	-3.08E+00	8.43E+00	2.57E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Manganese-54	-1.19E+00	3.78E+00	1.19E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Molybdenum-99	-2.43E+02	2.09E+03	6.72E+03	pCi/kg	U
2116.3	680239001	8/12/2024	Niobium-95	-4.50E+00	3.88E+00	1.14E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Potassium-40	2.55E+03	1.50E+02	9.33E+01	pCi/kg	
2116.3	680239001	8/12/2024	Radium-226	-3.08E+00	8.43E+00	2.57E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Radium-228	1.02E+00	1.40E+01	4.61E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Ruthenium-103	-5.02E+00	3.52E+00	1.06E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Ruthenium-106	9.22E+00	2.58E+01	8.75E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Selenium-75	-1.82E+00	4.33E+00	1.32E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Silver-108m	4.57E+00	2.94E+00	1.07E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Silver-110m	-3.28E-01	4.34E+00	1.38E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Tellurium-132	-1.13E+02	1.21E+02	3.63E+02	pCi/kg	U
2116.3	680239001	8/12/2024	Thallium-208	-3.28E+00	3.63E+00	1.08E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Thorium-228	1.17E+01	7.27E+00	1.88E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Thorium-230	-3.08E+00	8.43E+00	2.57E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Thorium-232	1.02E+00	1.40E+01	4.61E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Thorium-234	-2.23E+02	1.33E+02	4.17E+02	pCi/kg	U
2116.3	680239001	8/12/2024	Uranium-234	-3.08E+00	8.43E+00	2.57E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Zinc-65	6.69E+00	7.86E+00	2.83E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Zirconium-95	5.15E+00	6.13E+00	2.14E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Actinium-228	8.54E+00	1.91E+01	3.90E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Americium-241	8.66E+00	1.18E+01	3.36E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Antimony-124	1.47E+01	6.99E+00	1.53E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Antimony-125	-4.99E+00	5.74E+00	1.85E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Barium-140	1.44E+01	1.11E+01	3.93E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Beryllium-7	-1.67E+01	2.32E+01	6.17E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Bismuth-214	2.03E+00	9.39E+00	2.00E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Cerium-141	2.78E-01	3.43E+00	1.03E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Cerium-144	-5.82E-02	1.21E+01	3.93E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Cesium-134	1.76E+00	2.39E+00	8.12E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Cesium-137	-1.89E+00	2.59E+00	8.08E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Chromium-51	1.24E+01	1.83E+01	6.43E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Cobalt-57	1.44E+00	1.49E+00	5.04E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Cobalt-58	-9.02E-01	2.01E+00	6.20E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Cobalt-60	8.07E-01	2.83E+00	9.59E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Iodine-131	-3.21E+00	3.92E+00	1.28E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Iron-59	8.75E-01	5.44E+00	1.85E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Lanthanum-140	-3.01E+00	3.80E+00	1.13E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Lead-210	9.83E+02	5.75E+02	8.04E+02	pCi/kg	UI
2116.4	674347002	7/9/2024	Lead-212	9.74E+00	7.77E+00	1.23E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2116.4	674347002	7/9/2024	Lead-214	-4.70E+00	6.83E+00	1.63E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Manganese-54	2.00E-01	2.37E+00	7.63E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Molybdenum-99	9.39E+01	1.41E+02	4.75E+02	pCi/kg	U
2116.4	674347002	7/9/2024	Niobium-95	1.17E+00	2.41E+00	8.03E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Potassium-40	2.59E+03	1.20E+02	5.92E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Radium-226	-4.70E+00	6.83E+00	1.63E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Radium-228	8.54E+00	1.91E+01	3.90E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Ruthenium-103	-3.13E-01	2.38E+00	7.87E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Ruthenium-106	-8.81E+00	2.17E+01	6.96E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Selenium-75	9.93E-01	2.87E+00	9.12E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Silver-108m	-3.01E+00	1.68E+00	5.09E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Silver-110m	9.29E+00	3.39E+00	1.28E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Tellurium-132	-8.71E+00	1.02E+01	2.82E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Thallium-208	-4.07E+00	3.20E+00	9.34E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Thorium-228	9.74E+00	7.77E+00	1.23E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Thorium-230	-4.70E+00	6.83E+00	1.63E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Thorium-232	8.54E+00	1.91E+01	3.90E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Thorium-234	2.65E+02	1.78E+02	4.12E+02	pCi/kg	U
2116.4	674347002	7/9/2024	Uranium-234	-4.70E+00	6.83E+00	1.63E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Zinc-65	8.88E+00	6.02E+00	2.20E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Zirconium-95	7.79E+00	3.77E+00	1.40E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Actinium-228	2.64E+01	1.30E+01	2.45E+01	pCi/kg	UI
2116.5	677973001	7/29/2024	Americium-241	9.34E+00	1.33E+01	4.29E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Antimony-124	2.27E+00	2.63E+00	9.77E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Antimony-125	-1.45E+00	3.78E+00	1.25E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Barium-140	8.13E+00	8.28E+00	2.91E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Beryllium-7	6.10E+00	1.18E+01	4.05E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Bismuth-214	-2.47E+00	4.28E+00	1.26E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Cerium-141	-2.16E+00	2.68E+00	8.48E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Cerium-144	5.86E+00	8.79E+00	2.94E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Cesium-134	6.86E-01	1.68E+00	5.59E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Cesium-137	7.54E-02	1.47E+00	4.82E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Chromium-51	-2.32E+01	1.46E+01	4.71E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Cobalt-57	1.42E+00	1.18E+00	4.01E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Cobalt-58	-1.28E-01	1.60E+00	5.14E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Cobalt-60	7.24E+00	4.69E+00	7.41E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Iodine-131	1.29E+00	3.13E+00	1.09E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Iron-59	6.34E+00	4.93E+00	1.30E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Lanthanum-140	-3.36E+00	2.47E+00	6.38E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Lead-210	5.58E+02	5.77E+02	2.03E+03	pCi/kg	U
2116.5	677973001	7/29/2024	Lead-212	-2.14E+00	3.53E+00	1.05E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Lead-214	-4.39E+00	4.25E+00	1.21E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Manganese-54	-2.83E-01	1.76E+00	4.94E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Molybdenum-99	1.29E+02	1.65E+02	5.64E+02	pCi/kg	U
2116.5	677973001	7/29/2024	Niobium-95	1.25E+00	1.80E+00	6.08E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Potassium-40	1.88E+03	9.32E+01	5.06E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2116.5	677973001	7/29/2024	Radium-226	-4.39E+00	4.25E+00	1.21E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Radium-228	2.64E+01	1.30E+01	2.45E+01	pCi/kg	UI
2116.5	677973001	7/29/2024	Ruthenium-103	3.78E+00	1.44E+00	5.49E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Ruthenium-106	-2.17E+01	1.22E+01	3.53E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Selenium-75	2.81E-01	2.05E+00	6.47E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Silver-108m	2.66E-01	1.38E+00	4.24E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Silver-110m	-2.14E+00	2.27E+00	6.72E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Tellurium-132	5.99E+00	1.22E+01	3.96E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Thallium-208	4.41E+00	2.64E+00	4.32E+00	pCi/kg	UI
2116.5	677973001	7/29/2024	Thorium-228	-2.14E+00	3.53E+00	1.05E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Thorium-230	-4.39E+00	4.25E+00	1.21E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Thorium-232	2.64E+01	1.30E+01	2.45E+01	pCi/kg	UI
2116.5	677973001	7/29/2024	Thorium-234	1.86E+02	1.51E+02	3.43E+02	pCi/kg	U
2116.5	677973001	7/29/2024	Uranium-234	-4.39E+00	4.25E+00	1.21E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Zinc-65	-1.46E+00	3.64E+00	1.20E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Zirconium-95	-4.60E-01	3.10E+00	9.96E+00	pCi/kg	U
2163.1	671898001	6/20/2024	Actinium-228	1.13E+01	3.06E+01	1.02E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Americium-241	3.77E+01	7.14E+01	2.51E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Antimony-124	-6.17E+00	1.66E+01	4.92E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Antimony-125	-2.88E+01	2.10E+01	6.36E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Barium-140	1.16E+01	3.94E+01	1.35E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Beryllium-7	1.67E+01	6.32E+01	2.17E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Bismuth-214	-2.64E+01	1.96E+01	5.99E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cerium-141	-1.14E+01	1.25E+01	3.91E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cerium-144	-1.70E+01	4.59E+01	1.48E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Cesium-134	8.68E+00	1.07E+01	3.73E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cesium-137	-7.72E+00	9.97E+00	2.91E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Chromium-51	-7.40E+01	6.66E+01	1.86E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Cobalt-57	1.15E+00	6.65E+00	2.22E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cobalt-58	9.90E-01	7.65E+00	2.51E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cobalt-60	-4.60E+00	8.86E+00	2.72E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Iodine-131	-1.04E+00	1.25E+01	4.26E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Iron-59	-1.77E+00	1.75E+01	5.85E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Lanthanum-140	-6.07E+00	1.17E+01	3.42E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Lead-210	2.15E+03	5.14E+03	1.18E+04	pCi/kg	U
2163.1	671898001	6/20/2024	Lead-212	-4.07E+01	1.67E+01	4.43E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Lead-214	3.31E+01	3.23E+01	7.28E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Manganese-54	1.10E+01	8.57E+00	3.13E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Molybdenum-99	-1.65E+01	3.01E+02	9.74E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Niobium-95	-1.83E+01	1.04E+01	2.77E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Potassium-40	4.82E+03	3.72E+02	2.45E+02	pCi/kg	
2163.1	671898001	6/20/2024	Radium-226	3.31E+01	3.23E+01	7.28E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Radium-228	1.13E+01	3.06E+01	1.02E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Ruthenium-103	1.39E+01	7.49E+00	2.88E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Ruthenium-106	2.95E+01	7.39E+01	2.52E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Selenium-75	2.30E+01	1.19E+01	3.34E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2163.1	671898001	6/20/2024	Silver-108m	6.49E+00	6.73E+00	2.44E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Silver-110m	4.14E+00	1.20E+01	4.00E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Tellurium-132	-1.04E+01	2.48E+01	7.68E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Thallium-208	4.97E+00	1.46E+01	2.64E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Thorium-228	-4.07E+01	1.67E+01	4.43E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Thorium-230	3.31E+01	3.23E+01	7.28E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Thorium-232	1.13E+01	3.06E+01	1.02E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Thorium-234	8.61E+02	8.39E+02	1.47E+03	pCi/kg	U
2163.1	671898001	6/20/2024	Uranium-234	3.31E+01	3.23E+01	7.28E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Zinc-65	4.08E+01	1.89E+01	7.70E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Zirconium-95	-2.51E+00	1.33E+01	4.22E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Actinium-228	3.86E+01	2.09E+01	4.40E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Americium-241	1.24E+01	6.19E+00	2.17E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Antimony-124	3.74E+00	4.38E+00	1.62E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Antimony-125	3.86E+00	5.67E+00	1.96E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Barium-140	6.25E+00	1.27E+01	4.29E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Beryllium-7	2.13E+01	1.95E+01	6.84E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Bismuth-214	3.40E-01	1.43E+01	1.60E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Cerium-141	-2.62E+00	3.57E+00	1.10E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Cerium-144	3.09E+01	1.51E+01	3.62E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Cesium-134	2.21E+00	2.68E+00	9.17E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Cesium-137	-1.76E+00	2.66E+00	8.30E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Chromium-51	8.40E+00	1.97E+01	6.78E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Cobalt-57	5.62E-01	1.83E+00	5.40E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Cobalt-58	-1.63E+00	2.66E+00	8.16E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Cobalt-60	-1.90E+00	2.80E+00	8.83E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Iodine-131	9.31E-01	4.29E+00	1.46E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Iron-59	3.30E+00	5.49E+00	1.93E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Lanthanum-140	-1.77E+00	3.32E+00	1.02E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Lead-210	3.27E+01	1.46E+02	2.47E+02	pCi/kg	U
2164.4	674347001	7/8/2024	Lead-212	-1.41E+00	5.11E+00	1.63E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Lead-214	-5.46E+00	6.67E+00	1.89E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Manganese-54	1.88E-01	2.41E+00	7.80E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Molybdenum-99	1.56E+02	1.50E+02	5.17E+02	pCi/kg	U
2164.4	674347001	7/8/2024	Niobium-95	4.91E+00	2.55E+00	9.28E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Potassium-40	3.94E+03	1.49E+02	8.78E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Radium-226	-5.46E+00	6.67E+00	1.89E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Radium-228	3.86E+01	2.09E+01	4.40E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Ruthenium-103	-6.21E+00	3.93E+00	8.46E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Ruthenium-106	2.20E+00	2.30E+01	7.57E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Selenium-75	-5.37E-01	2.82E+00	9.58E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Silver-108m	3.00E+00	1.78E+00	6.48E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Silver-110m	-2.04E+00	3.61E+00	1.11E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Tellurium-132	-2.69E+01	1.14E+01	3.16E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Thallium-208	7.43E+00	3.37E+00	1.12E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Thorium-228	-1.41E+00	5.11E+00	1.63E+01	pCi/kg	U

Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2164.4	674347001	7/8/2024	Thorium-230	-5.46E+00	6.67E+00	1.89E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Thorium-232	3.86E+01	2.09E+01	4.40E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Thorium-234	8.82E+01	9.78E+01	1.69E+02	pCi/kg	U
2164.4	674347001	7/8/2024	Uranium-234	-5.46E+00	6.67E+00	1.89E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Zinc-65	4.33E-01	5.81E+00	1.97E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Zirconium-95	-5.44E+00	4.57E+00	1.35E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Actinium-228	3.49E+01	5.88E+01	1.00E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Americium-241	-6.06E+01	3.18E+01	8.43E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Antimony-124	-2.36E+01	1.72E+01	3.95E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Antimony-125	3.20E+01	3.53E+01	4.88E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Barium-140	-6.82E+00	3.14E+01	1.01E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Beryllium-7	1.31E+02	9.79E+01	1.71E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Bismuth-214	-4.49E+01	1.80E+01	4.64E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cerium-141	-7.58E+00	1.06E+01	3.26E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cerium-144	2.68E+01	3.74E+01	1.25E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Cesium-134	-5.10E+00	8.48E+00	2.16E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cesium-137	5.29E+00	5.93E+00	2.11E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Chromium-51	8.41E+01	5.81E+01	2.12E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Cobalt-57	-4.96E+00	4.28E+00	1.27E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cobalt-58	5.22E-01	6.03E+00	1.94E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cobalt-60	2.31E+00	7.66E+00	2.62E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Iodine-131	-5.44E+00	9.66E+00	2.75E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Iron-59	-2.42E+01	1.69E+01	4.79E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Lanthanum-140	2.14E+00	1.15E+01	3.84E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Lead-210	1.01E+01	1.60E+03	2.88E+03	pCi/kg	U
2167.1	671898003	6/21/2024	Lead-212	3.37E+01	2.53E+01	5.62E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Lead-214	7.30E+00	1.59E+01	5.12E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Manganese-54	2.69E+00	7.95E+00	2.61E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Molybdenum-99	1.13E+02	2.29E+02	7.66E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Niobium-95	1.90E+00	4.43E+00	1.39E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Potassium-40	4.79E+03	3.38E+02	1.74E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Radium-226	7.30E+00	1.59E+01	5.12E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Radium-228	3.49E+01	5.88E+01	1.00E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Ruthenium-103	2.18E+00	6.33E+00	2.15E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Ruthenium-106	8.30E+00	5.93E+01	1.95E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Selenium-75	-1.71E-01	7.52E+00	2.57E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Silver-108m	6.91E+00	5.65E+00	2.05E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Silver-110m	-3.42E+00	8.34E+00	2.70E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Tellurium-132	2.47E+01	1.61E+01	5.53E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Thallium-208	3.28E+00	1.36E+01	2.14E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Thorium-228	3.37E+01	2.53E+01	5.62E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Thorium-230	7.30E+00	1.59E+01	5.12E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Thorium-232	3.49E+01	5.88E+01	1.00E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Thorium-234	1.57E+03	7.22E+02	1.08E+03	pCi/kg	UI
2167.1	671898003	6/21/2024	Uranium-234	7.30E+00	1.59E+01	5.12E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Zinc-65	1.47E+01	1.72E+01	6.21E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2167.1	671898003	6/21/2024	Zirconium-95	-3.07E+01	1.14E+01	2.13E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Actinium-228	6.63E+00	1.20E+01	3.46E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Americium-241	6.57E+01	3.53E+01	5.64E+01	pCi/kg	UI
2207.3	680239002	8/15/2024	Antimony-124	1.36E+00	5.20E+00	1.75E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Antimony-125	-2.38E+00	5.47E+00	1.81E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Barium-140	-5.92E+00	1.18E+01	3.78E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Beryllium-7	4.93E-01	1.81E+01	6.06E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Bismuth-214	-8.98E-01	6.21E+00	1.80E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Cerium-141	4.47E+00	4.10E+00	1.16E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Cerium-144	-7.24E+00	1.32E+01	4.23E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Cesium-134	-1.37E+00	2.09E+00	6.35E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Cesium-137	-1.07E+00	2.13E+00	6.73E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Chromium-51	-2.47E+00	1.88E+01	6.41E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Cobalt-57	-2.42E+00	1.70E+00	5.30E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Cobalt-58	-2.68E-01	2.42E+00	7.74E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Cobalt-60	-5.32E-01	2.49E+00	8.12E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Iodine-131	6.09E+00	5.48E+00	1.95E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Iron-59	-6.21E+00	7.18E+00	1.88E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Lanthanum-140	-3.48E-01	5.01E+00	1.63E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Lead-210	-4.97E+02	7.58E+02	2.52E+03	pCi/kg	U
2207.3	680239002	8/15/2024	Lead-212	1.32E+01	8.29E+00	1.12E+01	pCi/kg	UI
2207.3	680239002	8/15/2024	Lead-214	6.16E+00	5.90E+00	1.78E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Manganese-54	2.76E+00	2.40E+00	8.30E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Molybdenum-99	-1.18E+02	3.02E+02	9.56E+02	pCi/kg	U
2207.3	680239002	8/15/2024	Niobium-95	-5.12E+00	4.28E+00	7.29E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Potassium-40	2.33E+03	1.12E+02	6.10E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Radium-226	6.16E+00	5.90E+00	1.78E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Radium-228	6.63E+00	1.20E+01	3.46E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Ruthenium-103	4.11E-01	2.36E+00	7.97E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Ruthenium-106	5.38E+00	1.93E+01	6.44E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Selenium-75	-2.18E+00	3.07E+00	9.33E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Silver-108m	7.01E-01	1.84E+00	6.30E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Silver-110m	-4.88E+00	3.16E+00	8.81E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Tellurium-132	-1.07E+01	1.96E+01	6.05E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Thallium-208	1.02E+01	4.92E+00	7.11E+00	pCi/kg	UI
2207.3	680239002	8/15/2024	Thorium-228	1.32E+01	8.29E+00	1.12E+01	pCi/kg	UI
2207.3	680239002	8/15/2024	Thorium-230	6.16E+00	5.90E+00	1.78E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Thorium-232	6.63E+00	1.20E+01	3.46E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Thorium-234	-1.32E+02	1.74E+02	4.95E+02	pCi/kg	U
2207.3	680239002	8/15/2024	Uranium-234	6.16E+00	5.90E+00	1.78E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Zinc-65	-7.96E-01	5.07E+00	1.69E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Zirconium-95	-1.53E-01	4.08E+00	1.32E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Actinium-228	-1.16E+01	6.81E+00	1.88E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Americium-241	2.21E+00	3.49E+00	1.17E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Antimony-124	-1.85E+00	2.61E+00	7.68E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Antimony-125	-1.57E+00	3.39E+00	1.11E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2207.5	677973002	7/31/2024	Barium-140	2.70E+00	6.57E+00	2.22E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Beryllium-7	5.47E+00	1.25E+01	3.85E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Bismuth-214	-2.00E-01	3.69E+00	1.00E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Cerium-141	-3.12E+00	2.36E+00	6.16E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Cerium-144	-6.89E+00	7.31E+00	2.25E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Cesium-134	3.14E+00	1.34E+00	4.96E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Cesium-137	-1.37E+00	1.14E+00	3.35E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Chromium-51	8.91E+00	1.13E+01	3.94E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Cobalt-57	9.89E-01	9.02E-01	3.00E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Cobalt-58	-1.61E+00	1.45E+00	4.28E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Cobalt-60	1.38E+00	1.64E+00	5.80E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Iodine-131	-1.79E-01	2.49E+00	7.98E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Iron-59	3.03E+00	3.38E+00	1.20E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Lanthanum-140	1.43E+00	2.22E+00	7.81E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Lead-210	-4.94E+01	5.49E+01	1.57E+02	pCi/kg	U
2207.5	677973002	7/31/2024	Lead-212	1.64E-01	4.98E+00	8.84E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Lead-214	1.42E+00	3.38E+00	1.04E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Manganese-54	8.68E-01	1.33E+00	4.48E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Molybdenum-99	-1.43E+02	1.06E+02	2.68E+02	pCi/kg	U
2207.5	677973002	7/31/2024	Niobium-95	6.36E-01	1.38E+00	4.61E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Potassium-40	1.91E+03	7.54E+01	4.19E+01	pCi/kg	
2207.5	677973002	7/31/2024	Radium-226	1.42E+00	3.38E+00	1.04E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Radium-228	-1.16E+01	6.81E+00	1.88E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Ruthenium-103	2.04E+00	1.29E+00	4.64E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Ruthenium-106	5.08E+00	1.17E+01	3.94E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Selenium-75	2.08E+00	1.44E+00	5.18E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Silver-108m	-1.23E+00	1.05E+00	2.93E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Silver-110m	1.96E+00	1.83E+00	6.33E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Tellurium-132	2.32E+00	6.32E+00	2.00E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Thallium-208	-1.38E+00	1.88E+00	5.19E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Thorium-228	1.64E-01	4.98E+00	8.84E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Thorium-230	1.42E+00	3.38E+00	1.04E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Thorium-232	-1.16E+01	6.81E+00	1.88E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Thorium-234	-1.66E+01	4.50E+01	1.25E+02	pCi/kg	U
2207.5	677973002	7/31/2024	Uranium-234	1.42E+00	3.38E+00	1.04E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Zinc-65	-3.49E+00	3.72E+00	1.20E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Zirconium-95	1.22E+01	5.40E+00	6.50E+00	pCi/kg	UI
2116.3	680239001	8/12/2024	Actinium-228	1.02E+00	1.40E+01	4.61E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Americium-241	-6.34E+00	1.25E+01	4.08E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Antimony-124	3.42E+00	4.39E+00	1.72E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Antimony-125	7.73E-01	7.13E+00	2.42E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Barium-140	-3.95E+00	2.90E+01	9.55E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Beryllium-7	-9.37E+00	2.73E+01	8.94E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Bismuth-214	1.62E+01	7.84E+00	2.42E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Cerium-141	7.15E-01	5.22E+00	1.70E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Cerium-144	-4.12E+00	1.68E+01	5.40E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2116.3	680239001	8/12/2024	Cesium-134	2.85E-01	3.54E+00	1.16E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Cesium-137	-5.11E-01	3.21E+00	9.53E+00	pCi/kg	U
2116.3	680239001	8/12/2024	Chromium-51	2.87E+01	3.12E+01	1.12E+02	pCi/kg	U
2116.3	680239001	8/12/2024	Cobalt-57	-1.85E+00	1.88E+00	5.81E+00	pCi/kg	U
2116.3	680239001	8/12/2024	Cobalt-58	-9.49E-01	3.55E+00	1.12E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Cobalt-60	-2.26E+00	2.82E+00	8.40E+00	pCi/kg	U
2116.3	680239001	8/12/2024	Iodine-131	-1.16E+01	1.14E+01	3.63E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Iron-59	-1.08E+01	6.96E+00	1.98E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Lanthanum-140	2.75E-02	6.92E+00	2.28E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Lead-210	2.42E+02	4.15E+02	1.34E+03	pCi/kg	U
2116.3	680239001	8/12/2024	Lead-212	1.17E+01	7.27E+00	1.88E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Lead-214	-3.08E+00	8.43E+00	2.57E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Manganese-54	-1.19E+00	3.78E+00	1.19E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Molybdenum-99	-2.43E+02	2.09E+03	6.72E+03	pCi/kg	U
2116.3	680239001	8/12/2024	Niobium-95	-4.50E+00	3.88E+00	1.14E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Potassium-40	2.55E+03	1.50E+02	9.33E+01	pCi/kg	
2116.3	680239001	8/12/2024	Radium-226	-3.08E+00	8.43E+00	2.57E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Radium-228	1.02E+00	1.40E+01	4.61E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Ruthenium-103	-5.02E+00	3.52E+00	1.06E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Ruthenium-106	9.22E+00	2.58E+01	8.75E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Selenium-75	-1.82E+00	4.33E+00	1.32E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Silver-108m	4.57E+00	2.94E+00	1.07E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Silver-110m	-3.28E-01	4.34E+00	1.38E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Tellurium-132	-1.13E+02	1.21E+02	3.63E+02	pCi/kg	U
2116.3	680239001	8/12/2024	Thallium-208	-3.28E+00	3.63E+00	1.08E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Thorium-228	1.17E+01	7.27E+00	1.88E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Thorium-230	-3.08E+00	8.43E+00	2.57E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Thorium-232	1.02E+00	1.40E+01	4.61E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Thorium-234	-2.23E+02	1.33E+02	4.17E+02	pCi/kg	U
2116.3	680239001	8/12/2024	Uranium-234	-3.08E+00	8.43E+00	2.57E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Zinc-65	6.69E+00	7.86E+00	2.83E+01	pCi/kg	U
2116.3	680239001	8/12/2024	Zirconium-95	5.15E+00	6.13E+00	2.14E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Actinium-228	8.54E+00	1.91E+01	3.90E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Americium-241	8.66E+00	1.18E+01	3.36E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Antimony-124	1.47E+01	6.99E+00	1.53E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Antimony-125	-4.99E+00	5.74E+00	1.85E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Barium-140	1.44E+01	1.11E+01	3.93E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Beryllium-7	-1.67E+01	2.32E+01	6.17E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Bismuth-214	2.03E+00	9.39E+00	2.00E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Cerium-141	2.78E-01	3.43E+00	1.03E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Cerium-144	-5.82E-02	1.21E+01	3.93E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Cesium-134	1.76E+00	2.39E+00	8.12E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Cesium-137	-1.89E+00	2.59E+00	8.08E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Chromium-51	1.24E+01	1.83E+01	6.43E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Cobalt-57	1.44E+00	1.49E+00	5.04E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Cobalt-58	-9.02E-01	2.01E+00	6.20E+00	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2116.4	674347002	7/9/2024	Cobalt-60	8.07E-01	2.83E+00	9.59E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Iodine-131	-3.21E+00	3.92E+00	1.28E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Iron-59	8.75E-01	5.44E+00	1.85E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Lanthanum-140	-3.01E+00	3.80E+00	1.13E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Lead-210	9.83E+02	5.75E+02	8.04E+02	pCi/kg	UI
2116.4	674347002	7/9/2024	Lead-212	9.74E+00	7.77E+00	1.23E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Lead-214	-4.70E+00	6.83E+00	1.63E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Manganese-54	2.00E-01	2.37E+00	7.63E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Molybdenum-99	9.39E+01	1.41E+02	4.75E+02	pCi/kg	U
2116.4	674347002	7/9/2024	Niobium-95	1.17E+00	2.41E+00	8.03E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Potassium-40	2.59E+03	1.20E+02	5.92E+01	pCi/kg	
2116.4	674347002	7/9/2024	Radium-226	-4.70E+00	6.83E+00	1.63E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Radium-228	8.54E+00	1.91E+01	3.90E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Ruthenium-103	-3.13E-01	2.38E+00	7.87E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Ruthenium-106	-8.81E+00	2.17E+01	6.96E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Selenium-75	9.93E-01	2.87E+00	9.12E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Silver-108m	-3.01E+00	1.68E+00	5.09E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Silver-110m	9.29E+00	3.39E+00	1.28E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Tellurium-132	-8.71E+00	1.02E+01	2.82E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Thallium-208	-4.07E+00	3.20E+00	9.34E+00	pCi/kg	U
2116.4	674347002	7/9/2024	Thorium-228	9.74E+00	7.77E+00	1.23E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Thorium-230	-4.70E+00	6.83E+00	1.63E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Thorium-232	8.54E+00	1.91E+01	3.90E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Thorium-234	2.65E+02	1.78E+02	4.12E+02	pCi/kg	U
2116.4	674347002	7/9/2024	Uranium-234	-4.70E+00	6.83E+00	1.63E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Zinc-65	8.88E+00	6.02E+00	2.20E+01	pCi/kg	U
2116.4	674347002	7/9/2024	Zirconium-95	7.79E+00	3.77E+00	1.40E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Actinium-228	2.64E+01	1.30E+01	2.45E+01	pCi/kg	UI
2116.5	677973001	7/29/2024	Americium-241	9.34E+00	1.33E+01	4.29E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Antimony-124	2.27E+00	2.63E+00	9.77E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Antimony-125	-1.45E+00	3.78E+00	1.25E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Barium-140	8.13E+00	8.28E+00	2.91E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Beryllium-7	6.10E+00	1.18E+01	4.05E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Bismuth-214	-2.47E+00	4.28E+00	1.26E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Cerium-141	-2.16E+00	2.68E+00	8.48E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Cerium-144	5.86E+00	8.79E+00	2.94E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Cesium-134	6.86E-01	1.68E+00	5.59E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Cesium-137	7.54E-02	1.47E+00	4.82E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Chromium-51	-2.32E+01	1.46E+01	4.71E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Cobalt-57	1.42E+00	1.18E+00	4.01E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Cobalt-58	-1.28E-01	1.60E+00	5.14E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Cobalt-60	7.24E+00	4.69E+00	7.41E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Iodine-131	1.29E+00	3.13E+00	1.09E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Iron-59	6.34E+00	4.93E+00	1.30E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Lanthanum-140	-3.36E+00	2.47E+00	6.38E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Lead-210	5.58E+02	5.77E+02	2.03E+03	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2116.5	677973001	7/29/2024	Lead-212	-2.14E+00	3.53E+00	1.05E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Lead-214	-4.39E+00	4.25E+00	1.21E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Manganese-54	-2.83E-01	1.76E+00	4.94E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Molybdenum-99	1.29E+02	1.65E+02	5.64E+02	pCi/kg	U
2116.5	677973001	7/29/2024	Niobium-95	1.25E+00	1.80E+00	6.08E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Potassium-40	1.88E+03	9.32E+01	5.06E+01	pCi/kg	
2116.5	677973001	7/29/2024	Radium-226	-4.39E+00	4.25E+00	1.21E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Radium-228	2.64E+01	1.30E+01	2.45E+01	pCi/kg	UI
2116.5	677973001	7/29/2024	Ruthenium-103	3.78E+00	1.44E+00	5.49E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Ruthenium-106	-2.17E+01	1.22E+01	3.53E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Selenium-75	2.81E-01	2.05E+00	6.47E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Silver-108m	2.66E-01	1.38E+00	4.24E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Silver-110m	-2.14E+00	2.27E+00	6.72E+00	pCi/kg	U
2116.5	677973001	7/29/2024	Tellurium-132	5.99E+00	1.22E+01	3.96E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Thallium-208	4.41E+00	2.64E+00	4.32E+00	pCi/kg	UI
2116.5	677973001	7/29/2024	Thorium-228	-2.14E+00	3.53E+00	1.05E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Thorium-230	-4.39E+00	4.25E+00	1.21E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Thorium-232	2.64E+01	1.30E+01	2.45E+01	pCi/kg	UI
2116.5	677973001	7/29/2024	Thorium-234	1.86E+02	1.51E+02	3.43E+02	pCi/kg	U
2116.5	677973001	7/29/2024	Uranium-234	-4.39E+00	4.25E+00	1.21E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Zinc-65	-1.46E+00	3.64E+00	1.20E+01	pCi/kg	U
2116.5	677973001	7/29/2024	Zirconium-95	-4.60E-01	3.10E+00	9.96E+00	pCi/kg	U
2163.1	671898001	6/20/2024	Actinium-228	1.13E+01	3.06E+01	1.02E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Americium-241	3.77E+01	7.14E+01	2.51E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Antimony-124	-6.17E+00	1.66E+01	4.92E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Antimony-125	-2.88E+01	2.10E+01	6.36E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Barium-140	1.16E+01	3.94E+01	1.35E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Beryllium-7	1.67E+01	6.32E+01	2.17E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Bismuth-214	-2.64E+01	1.96E+01	5.99E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cerium-141	-1.14E+01	1.25E+01	3.91E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cerium-144	-1.70E+01	4.59E+01	1.48E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Cesium-134	8.68E+00	1.07E+01	3.73E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cesium-137	-7.72E+00	9.97E+00	2.91E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Chromium-51	-7.40E+01	6.66E+01	1.86E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Cobalt-57	1.15E+00	6.65E+00	2.22E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cobalt-58	9.90E-01	7.65E+00	2.51E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Cobalt-60	-4.60E+00	8.86E+00	2.72E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Iodine-131	-1.04E+00	1.25E+01	4.26E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Iron-59	-1.77E+00	1.75E+01	5.85E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Lanthanum-140	-6.07E+00	1.17E+01	3.42E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Lead-210	2.15E+03	5.14E+03	1.18E+04	pCi/kg	U
2163.1	671898001	6/20/2024	Lead-212	-4.07E+01	1.67E+01	4.43E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Lead-214	3.31E+01	3.23E+01	7.28E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Manganese-54	1.10E+01	8.57E+00	3.13E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Molybdenum-99	-1.65E+01	3.01E+02	9.74E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Niobium-95	-1.83E+01	1.04E+01	2.77E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2163.1	671898001	6/20/2024	Potassium-40	4.82E+03	3.72E+02	2.45E+02	pCi/kg	
2163.1	671898001	6/20/2024	Radium-226	3.31E+01	3.23E+01	7.28E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Radium-228	1.13E+01	3.06E+01	1.02E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Ruthenium-103	1.39E+01	7.49E+00	2.88E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Ruthenium-106	2.95E+01	7.39E+01	2.52E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Selenium-75	2.30E+01	1.19E+01	3.34E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Silver-108m	6.49E+00	6.73E+00	2.44E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Silver-110m	4.14E+00	1.20E+01	4.00E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Tellurium-132	-1.04E+01	2.48E+01	7.68E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Thallium-208	4.97E+00	1.46E+01	2.64E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Thorium-228	-4.07E+01	1.67E+01	4.43E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Thorium-230	3.31E+01	3.23E+01	7.28E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Thorium-232	1.13E+01	3.06E+01	1.02E+02	pCi/kg	U
2163.1	671898001	6/20/2024	Thorium-234	8.61E+02	8.39E+02	1.47E+03	pCi/kg	U
2163.1	671898001	6/20/2024	Uranium-234	3.31E+01	3.23E+01	7.28E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Zinc-65	4.08E+01	1.89E+01	7.70E+01	pCi/kg	U
2163.1	671898001	6/20/2024	Zirconium-95	-2.51E+00	1.33E+01	4.22E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Actinium-228	3.86E+01	2.09E+01	4.40E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Americium-241	1.24E+01	6.19E+00	2.17E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Antimony-124	3.74E+00	4.38E+00	1.62E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Antimony-125	3.86E+00	5.67E+00	1.96E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Barium-140	6.25E+00	1.27E+01	4.29E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Beryllium-7	2.13E+01	1.95E+01	6.84E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Bismuth-214	3.40E-01	1.43E+01	1.60E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Cerium-141	-2.62E+00	3.57E+00	1.10E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Cerium-144	3.09E+01	1.51E+01	3.62E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Cesium-134	2.21E+00	2.68E+00	9.17E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Cesium-137	-1.76E+00	2.66E+00	8.30E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Chromium-51	8.40E+00	1.97E+01	6.78E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Cobalt-57	5.62E-01	1.83E+00	5.40E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Cobalt-58	-1.63E+00	2.66E+00	8.16E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Cobalt-60	-1.90E+00	2.80E+00	8.83E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Iodine-131	9.31E-01	4.29E+00	1.46E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Iron-59	3.30E+00	5.49E+00	1.93E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Lanthanum-140	-1.77E+00	3.32E+00	1.02E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Lead-210	3.27E+01	1.46E+02	2.47E+02	pCi/kg	U
2164.4	674347001	7/8/2024	Lead-212	-1.41E+00	5.11E+00	1.63E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Lead-214	-5.46E+00	6.67E+00	1.89E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Manganese-54	1.88E-01	2.41E+00	7.80E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Molybdenum-99	1.56E+02	1.50E+02	5.17E+02	pCi/kg	U
2164.4	674347001	7/8/2024	Niobium-95	4.91E+00	2.55E+00	9.28E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Potassium-40	3.94E+03	1.49E+02	8.78E+01	pCi/kg	
2164.4	674347001	7/8/2024	Radium-226	-5.46E+00	6.67E+00	1.89E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Radium-228	3.86E+01	2.09E+01	4.40E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Ruthenium-103	-6.21E+00	3.93E+00	8.46E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Ruthenium-106	2.20E+00	2.30E+01	7.57E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2164.4	674347001	7/8/2024	Selenium-75	-5.37E-01	2.82E+00	9.58E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Silver-108m	3.00E+00	1.78E+00	6.48E+00	pCi/kg	U
2164.4	674347001	7/8/2024	Silver-110m	-2.04E+00	3.61E+00	1.11E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Tellurium-132	-2.69E+01	1.14E+01	3.16E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Thallium-208	7.43E+00	3.37E+00	1.12E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Thorium-228	-1.41E+00	5.11E+00	1.63E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Thorium-230	-5.46E+00	6.67E+00	1.89E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Thorium-232	3.86E+01	2.09E+01	4.40E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Thorium-234	8.82E+01	9.78E+01	1.69E+02	pCi/kg	U
2164.4	674347001	7/8/2024	Uranium-234	-5.46E+00	6.67E+00	1.89E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Zinc-65	4.33E-01	5.81E+00	1.97E+01	pCi/kg	U
2164.4	674347001	7/8/2024	Zirconium-95	-5.44E+00	4.57E+00	1.35E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Actinium-228	3.49E+01	5.88E+01	1.00E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Americium-241	-6.06E+01	3.18E+01	8.43E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Antimony-124	-2.36E+01	1.72E+01	3.95E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Antimony-125	3.20E+01	3.53E+01	4.88E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Barium-140	-6.82E+00	3.14E+01	1.01E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Beryllium-7	1.31E+02	9.79E+01	1.71E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Bismuth-214	-4.49E+01	1.80E+01	4.64E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cerium-141	-7.58E+00	1.06E+01	3.26E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cerium-144	2.68E+01	3.74E+01	1.25E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Cesium-134	-5.10E+00	8.48E+00	2.16E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cesium-137	5.29E+00	5.93E+00	2.11E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Chromium-51	8.41E+01	5.81E+01	2.12E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Cobalt-57	-4.96E+00	4.28E+00	1.27E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cobalt-58	5.22E-01	6.03E+00	1.94E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Cobalt-60	2.31E+00	7.66E+00	2.62E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Iodine-131	-5.44E+00	9.66E+00	2.75E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Iron-59	-2.42E+01	1.69E+01	4.79E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Lanthanum-140	2.14E+00	1.15E+01	3.84E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Lead-210	1.01E+01	1.60E+03	2.88E+03	pCi/kg	U
2167.1	671898003	6/21/2024	Lead-212	3.37E+01	2.53E+01	5.62E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Lead-214	7.30E+00	1.59E+01	5.12E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Manganese-54	2.69E+00	7.95E+00	2.61E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Molybdenum-99	1.13E+02	2.29E+02	7.66E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Niobium-95	1.90E+00	4.43E+00	1.39E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Potassium-40	4.79E+03	3.38E+02	1.74E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Radium-226	7.30E+00	1.59E+01	5.12E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Radium-228	3.49E+01	5.88E+01	1.00E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Ruthenium-103	2.18E+00	6.33E+00	2.15E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Ruthenium-106	8.30E+00	5.93E+01	1.95E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Selenium-75	-1.71E-01	7.52E+00	2.57E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Silver-108m	6.91E+00	5.65E+00	2.05E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Silver-110m	-3.42E+00	8.34E+00	2.70E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Tellurium-132	2.47E+01	1.61E+01	5.53E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Thallium-208	3.28E+00	1.36E+01	2.14E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2167.1	671898003	6/21/2024	Thorium-228	3.37E+01	2.53E+01	5.62E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Thorium-230	7.30E+00	1.59E+01	5.12E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Thorium-232	3.49E+01	5.88E+01	1.00E+02	pCi/kg	U
2167.1	671898003	6/21/2024	Thorium-234	1.57E+03	7.22E+02	1.08E+03	pCi/kg	UI
2167.1	671898003	6/21/2024	Uranium-234	7.30E+00	1.59E+01	5.12E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Zinc-65	1.47E+01	1.72E+01	6.21E+01	pCi/kg	U
2167.1	671898003	6/21/2024	Zirconium-95	-3.07E+01	1.14E+01	2.13E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Actinium-228	6.63E+00	1.20E+01	3.46E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Americium-241	6.57E+01	3.53E+01	5.64E+01	pCi/kg	UI
2207.3	680239002	8/15/2024	Antimony-124	1.36E+00	5.20E+00	1.75E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Antimony-125	-2.38E+00	5.47E+00	1.81E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Barium-140	-5.92E+00	1.18E+01	3.78E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Beryllium-7	4.93E-01	1.81E+01	6.06E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Bismuth-214	-8.98E-01	6.21E+00	1.80E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Cerium-141	4.47E+00	4.10E+00	1.16E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Cerium-144	-7.24E+00	1.32E+01	4.23E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Cesium-134	-1.37E+00	2.09E+00	6.35E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Cesium-137	-1.07E+00	2.13E+00	6.73E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Chromium-51	-2.47E+00	1.88E+01	6.41E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Cobalt-57	-2.42E+00	1.70E+00	5.30E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Cobalt-58	-2.68E-01	2.42E+00	7.74E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Cobalt-60	-5.32E-01	2.49E+00	8.12E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Iodine-131	6.09E+00	5.48E+00	1.95E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Iron-59	-6.21E+00	7.18E+00	1.88E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Lanthanum-140	-3.48E-01	5.01E+00	1.63E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Lead-210	-4.97E+02	7.58E+02	2.52E+03	pCi/kg	U
2207.3	680239002	8/15/2024	Lead-212	1.32E+01	8.29E+00	1.12E+01	pCi/kg	UI
2207.3	680239002	8/15/2024	Lead-214	6.16E+00	5.90E+00	1.78E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Manganese-54	2.76E+00	2.40E+00	8.30E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Molybdenum-99	-1.18E+02	3.02E+02	9.56E+02	pCi/kg	U
2207.3	680239002	8/15/2024	Niobium-95	-5.12E+00	4.28E+00	7.29E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Potassium-40	2.33E+03	1.12E+02	6.10E+01	pCi/kg	
2207.3	680239002	8/15/2024	Radium-226	6.16E+00	5.90E+00	1.78E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Radium-228	6.63E+00	1.20E+01	3.46E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Ruthenium-103	4.11E-01	2.36E+00	7.97E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Ruthenium-106	5.38E+00	1.93E+01	6.44E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Selenium-75	-2.18E+00	3.07E+00	9.33E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Silver-108m	7.01E-01	1.84E+00	6.30E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Silver-110m	-4.88E+00	3.16E+00	8.81E+00	pCi/kg	U
2207.3	680239002	8/15/2024	Tellurium-132	-1.07E+01	1.96E+01	6.05E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Thallium-208	1.02E+01	4.92E+00	7.11E+00	pCi/kg	UI
2207.3	680239002	8/15/2024	Thorium-228	1.32E+01	8.29E+00	1.12E+01	pCi/kg	UI
2207.3	680239002	8/15/2024	Thorium-230	6.16E+00	5.90E+00	1.78E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Thorium-232	6.63E+00	1.20E+01	3.46E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Thorium-234	-1.32E+02	1.74E+02	4.95E+02	pCi/kg	U
2207.3	680239002	8/15/2024	Uranium-234	6.16E+00	5.90E+00	1.78E+01	pCi/kg	U

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Table 13: Complete REMP Results – Food Products (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2207.3	680239002	8/15/2024	Zinc-65	-7.96E-01	5.07E+00	1.69E+01	pCi/kg	U
2207.3	680239002	8/15/2024	Zirconium-95	-1.53E-01	4.08E+00	1.32E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Actinium-228	-1.16E+01	6.81E+00	1.88E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Americium-241	2.21E+00	3.49E+00	1.17E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Antimony-124	-1.85E+00	2.61E+00	7.68E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Antimony-125	-1.57E+00	3.39E+00	1.11E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Barium-140	2.70E+00	6.57E+00	2.22E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Beryllium-7	5.47E+00	1.25E+01	3.85E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Bismuth-214	-2.00E-01	3.69E+00	1.00E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Cerium-141	-3.12E+00	2.36E+00	6.16E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Cerium-144	-6.89E+00	7.31E+00	2.25E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Cesium-134	3.14E+00	1.34E+00	4.96E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Cesium-137	-1.37E+00	1.14E+00	3.35E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Chromium-51	8.91E+00	1.13E+01	3.94E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Cobalt-57	9.89E-01	9.02E-01	3.00E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Cobalt-58	-1.61E+00	1.45E+00	4.28E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Cobalt-60	1.38E+00	1.64E+00	5.80E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Iodine-131	-1.79E-01	2.49E+00	7.98E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Iron-59	3.03E+00	3.38E+00	1.20E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Lanthanum-140	1.43E+00	2.22E+00	7.81E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Lead-210	-4.94E+01	5.49E+01	1.57E+02	pCi/kg	U
2207.5	677973002	7/31/2024	Lead-212	1.64E-01	4.98E+00	8.84E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Lead-214	1.42E+00	3.38E+00	1.04E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Manganese-54	8.68E-01	1.33E+00	4.48E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Molybdenum-99	-1.43E+02	1.06E+02	2.68E+02	pCi/kg	U
2207.5	677973002	7/31/2024	Niobium-95	6.36E-01	1.38E+00	4.61E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Potassium-40	1.91E+03	7.54E+01	4.19E+01	pCi/kg	
2207.5	677973002	7/31/2024	Radium-226	1.42E+00	3.38E+00	1.04E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Radium-228	-1.16E+01	6.81E+00	1.88E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Ruthenium-103	2.04E+00	1.29E+00	4.64E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Ruthenium-106	5.08E+00	1.17E+01	3.94E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Selenium-75	2.08E+00	1.44E+00	5.18E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Silver-108m	-1.23E+00	1.05E+00	2.93E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Silver-110m	1.96E+00	1.83E+00	6.33E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Tellurium-132	2.32E+00	6.32E+00	2.00E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Thallium-208	-1.38E+00	1.88E+00	5.19E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Thorium-228	1.64E-01	4.98E+00	8.84E+00	pCi/kg	U
2207.5	677973002	7/31/2024	Thorium-230	1.42E+00	3.38E+00	1.04E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Thorium-232	-1.16E+01	6.81E+00	1.88E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Thorium-234	-1.66E+01	4.50E+01	1.25E+02	pCi/kg	U
2207.5	677973002	7/31/2024	Uranium-234	1.42E+00	3.38E+00	1.04E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Zinc-65	-3.49E+00	3.72E+00	1.20E+01	pCi/kg	U
2207.5	677973002	7/31/2024	Zirconium-95	1.22E+01	5.40E+00	6.50E+00	pCi/kg	UI

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	652269001	1/25/2024	Actinium-228	1.13E+00	4.17E+00	1.38E+01	pCi/L	U
2153	655820001	2/21/2024	Actinium-228	2.15E+01	8.95E+00	2.40E+01	pCi/L	U
2153	659314001	3/20/2024	Actinium-228	2.03E+00	5.39E+00	1.82E+01	pCi/L	U
2153	662074029	4/17/2024	Actinium-228	-3.80E+00	2.69E+00	6.79E+00	pCi/L	U
2153	667160001	5/14/2024	Actinium-228	6.16E+00	6.35E+00	2.21E+01	pCi/L	U
2153	670838001	6/11/2024	Actinium-228	1.73E+00	4.55E+00	1.42E+01	pCi/L	U
2153	674337001	7/10/2024	Actinium-228	1.42E+01	6.44E+00	1.37E+01	pCi/L	UI
2153	679203001	8/6/2024	Actinium-228	2.56E+00	5.12E+00	1.45E+01	pCi/L	U
2153	683693001	9/2/2024	Actinium-228	1.26E+01	5.45E+00	1.97E+01	pCi/L	U
2153	692328001	10/31/2024	Actinium-228	-1.17E+01	9.79E+00	1.52E+01	pCi/L	U
2153	697368001	11/27/2024	Actinium-228	-9.89E+00	6.62E+00	1.88E+01	pCi/L	U
2153	701912001	12/27/2024	Actinium-228	-2.75E+00	4.14E+00	6.98E+00	pCi/L	U
2153	652269001	1/25/2024	Americium-241	5.25E+00	2.92E+00	9.90E+00	pCi/L	U
2153	655820001	2/21/2024	Americium-241	7.39E+00	1.35E+01	4.03E+01	pCi/L	U
2153	659314001	3/20/2024	Americium-241	3.76E+00	5.96E+00	1.91E+01	pCi/L	U
2153	662074029	4/17/2024	Americium-241	4.36E-01	1.66E+00	5.06E+00	pCi/L	U
2153	667160001	5/14/2024	Americium-241	4.21E+00	7.36E+00	2.59E+01	pCi/L	U
2153	670838001	6/11/2024	Americium-241	1.12E+01	6.16E+00	2.26E+01	pCi/L	U
2153	674337001	7/10/2024	Americium-241	-2.09E+00	8.22E+00	2.79E+01	pCi/L	U
2153	679203001	8/6/2024	Americium-241	2.37E+00	3.80E+00	1.20E+01	pCi/L	U
2153	683693001	9/2/2024	Americium-241	6.39E+00	1.33E+01	4.06E+01	pCi/L	U
2153	692328001	10/31/2024	Americium-241	9.68E+00	1.47E+01	2.71E+01	pCi/L	U
2153	697368001	11/27/2024	Americium-241	-8.07E+00	1.11E+01	3.66E+01	pCi/L	U
2153	701912001	12/27/2024	Americium-241	1.92E+00	2.73E+00	8.64E+00	pCi/L	U
2153	652269001	1/25/2024	Antimony-124	-1.80E-01	2.71E+00	7.70E+00	pCi/L	U
2153	655820001	2/21/2024	Antimony-124	2.85E+00	3.72E+00	1.20E+01	pCi/L	U
2153	659314001	3/20/2024	Antimony-124	-3.08E+00	2.51E+00	5.85E+00	pCi/L	U
2153	662074029	4/17/2024	Antimony-124	1.20E+00	1.14E+00	4.07E+00	pCi/L	U
2153	667160001	5/14/2024	Antimony-124	-6.17E+00	2.93E+00	6.31E+00	pCi/L	U
2153	670838001	6/11/2024	Antimony-124	1.30E+00	2.30E+00	8.15E+00	pCi/L	U
2153	674337001	7/10/2024	Antimony-124	4.03E-01	2.33E+00	7.75E+00	pCi/L	U
2153	679203001	8/6/2024	Antimony-124	1.06E+00	2.10E+00	7.37E+00	pCi/L	U
2153	683693001	9/2/2024	Antimony-124	1.93E+00	3.44E+00	1.22E+01	pCi/L	U
2153	692328001	10/31/2024	Antimony-124	1.01E+00	4.96E+00	9.00E+00	pCi/L	U
2153	697368001	11/27/2024	Antimony-124	1.18E+00	3.27E+00	1.13E+01	pCi/L	U
2153	701912001	12/27/2024	Antimony-124	-3.01E+00	1.91E+00	4.06E+00	pCi/L	U
2153	652269001	1/25/2024	Antimony-125	-2.58E+00	2.47E+00	7.55E+00	pCi/L	U
2153	655820001	2/21/2024	Antimony-125	-1.64E+00	3.45E+00	1.05E+01	pCi/L	U
2153	659314001	3/20/2024	Antimony-125	-2.59E+00	2.91E+00	9.00E+00	pCi/L	U
2153	662074029	4/17/2024	Antimony-125	2.71E+00	1.23E+00	4.44E+00	pCi/L	U
2153	667160001	5/14/2024	Antimony-125	-1.92E+00	3.81E+00	1.17E+01	pCi/L	U
2153	670838001	6/11/2024	Antimony-125	-1.11E+00	2.55E+00	8.35E+00	pCi/L	U
2153	674337001	7/10/2024	Antimony-125	4.22E+00	2.59E+00	9.43E+00	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	679203001	8/6/2024	Antimony-125	-3.18E-01	2.76E+00	9.07E+00	pCi/L	U
2153	683693001	9/2/2024	Antimony-125	2.95E+00	3.00E+00	1.09E+01	pCi/L	U
2153	692328001	10/31/2024	Antimony-125	-1.53E-01	6.16E+00	1.04E+01	pCi/L	U
2153	697368001	11/27/2024	Antimony-125	3.95E+00	3.28E+00	1.21E+01	pCi/L	U
2153	701912001	12/27/2024	Antimony-125	7.21E-01	1.38E+00	4.25E+00	pCi/L	U
2153	652269001	1/25/2024	Barium-140	1.17E+00	5.37E+00	1.81E+01	pCi/L	U
2153	655820001	2/21/2024	Barium-140	7.67E-01	6.68E+00	2.26E+01	pCi/L	U
2153	659314001	3/20/2024	Barium-140	-3.99E+00	5.21E+00	1.57E+01	pCi/L	U
2153	662074029	4/17/2024	Barium-140	4.10E+00	3.11E+00	1.09E+01	pCi/L	U
2153	667160001	5/14/2024	Barium-140	2.10E+01	6.78E+00	2.10E+01	pCi/L	UI
2153	670838001	6/11/2024	Barium-140	3.13E+00	4.60E+00	1.61E+01	pCi/L	U
2153	674337001	7/10/2024	Barium-140	-1.20E+00	5.53E+00	1.82E+01	pCi/L	U
2153	679203001	8/6/2024	Barium-140	-1.83E+00	4.51E+00	1.41E+01	pCi/L	U
2153	683693001	9/2/2024	Barium-140	2.08E+01	6.95E+00	1.02E+01	pCi/L	UI
2153	692328001	10/31/2024	Barium-140	-7.61E+00	1.48E+01	1.83E+01	pCi/L	U
2153	697368001	11/27/2024	Barium-140	-3.60E+00	5.95E+00	1.87E+01	pCi/L	U
2153	701912001	12/27/2024	Barium-140	-2.35E+00	4.91E+00	1.61E+01	pCi/L	U
2153	652269001	1/25/2024	Beryllium-7	3.09E+00	8.48E+00	2.63E+01	pCi/L	U
2153	655820001	2/21/2024	Beryllium-7	-2.80E+01	1.18E+01	3.37E+01	pCi/L	U
2153	659314001	3/20/2024	Beryllium-7	9.35E+00	9.67E+00	3.43E+01	pCi/L	U
2153	662074029	4/17/2024	Beryllium-7	2.92E+00	7.42E+00	1.62E+01	pCi/L	U
2153	667160001	5/14/2024	Beryllium-7	4.86E+00	9.69E+00	3.33E+01	pCi/L	U
2153	670838001	6/11/2024	Beryllium-7	1.78E+01	8.26E+00	2.23E+01	pCi/L	U
2153	674337001	7/10/2024	Beryllium-7	2.67E+00	8.88E+00	3.03E+01	pCi/L	U
2153	679203001	8/6/2024	Beryllium-7	-2.10E+00	8.16E+00	2.63E+01	pCi/L	U
2153	683693001	9/2/2024	Beryllium-7	-5.92E+00	1.00E+01	3.19E+01	pCi/L	U
2153	692328001	10/31/2024	Beryllium-7	-6.00E+00	2.10E+01	3.36E+01	pCi/L	U
2153	697368001	11/27/2024	Beryllium-7	1.07E+01	1.17E+01	4.21E+01	pCi/L	U
2153	701912001	12/27/2024	Beryllium-7	3.45E+00	4.99E+00	1.70E+01	pCi/L	U
2153	652269001	1/25/2024	Bismuth-214	7.62E-01	2.60E+00	8.24E+00	pCi/L	U
2153	655820001	2/21/2024	Bismuth-214	-7.21E+00	3.81E+00	1.05E+01	pCi/L	U
2153	659314001	3/20/2024	Bismuth-214	-8.29E-01	2.86E+00	8.02E+00	pCi/L	U
2153	662074029	4/17/2024	Bismuth-214	-2.86E+00	1.80E+00	3.90E+00	pCi/L	U
2153	667160001	5/14/2024	Bismuth-214	-1.83E+00	3.02E+00	8.98E+00	pCi/L	U
2153	670838001	6/11/2024	Bismuth-214	-4.72E-01	2.61E+00	7.76E+00	pCi/L	U
2153	674337001	7/10/2024	Bismuth-214	5.81E+00	3.85E+00	6.05E+00	pCi/L	U
2153	679203001	8/6/2024	Bismuth-214	7.76E+00	3.19E+00	9.12E+00	pCi/L	U
2153	683693001	9/2/2024	Bismuth-214	1.16E+01	4.04E+00	8.03E+00	pCi/L	UI
2153	692328001	10/31/2024	Bismuth-214	-4.23E+00	6.41E+00	9.26E+00	pCi/L	U
2153	697368001	11/27/2024	Bismuth-214	4.53E-01	3.61E+00	1.23E+01	pCi/L	U
2153	701912001	12/27/2024	Bismuth-214	1.75E+00	1.86E+00	3.78E+00	pCi/L	U
2153	652269001	1/25/2024	Cerium-141	-2.44E+00	1.91E+00	5.64E+00	pCi/L	U
2153	655820001	2/21/2024	Cerium-141	-1.85E+00	2.24E+00	7.28E+00	pCi/L	U
2153	659314001	3/20/2024	Cerium-141	2.53E+00	1.96E+00	6.68E+00	pCi/L	U
2153	662074029	4/17/2024	Cerium-141	-1.33E+00	1.30E+00	2.96E+00	pCi/L	U
2153	667160001	5/14/2024	Cerium-141	-7.63E-02	1.89E+00	6.15E+00	pCi/L	U

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Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	670838001	6/11/2024	Cerium-141	-1.77E+00	1.96E+00	6.11E+00	pCi/L	U
2153	674337001	7/10/2024	Cerium-141	-9.03E-01	2.02E+00	6.55E+00	pCi/L	U
2153	679203001	8/6/2024	Cerium-141	-4.72E-01	1.80E+00	5.63E+00	pCi/L	U
2153	683693001	9/2/2024	Cerium-141	-1.93E+00	2.38E+00	7.47E+00	pCi/L	U
2153	692328001	10/31/2024	Cerium-141	7.18E-01	4.10E+00	6.42E+00	pCi/L	U
2153	697368001	11/27/2024	Cerium-141	1.30E+00	3.51E+00	6.87E+00	pCi/L	U
2153	701912001	12/27/2024	Cerium-141	-1.47E+00	1.06E+00	3.33E+00	pCi/L	U
2153	652269001	1/25/2024	Cerium-144	-3.52E+00	7.70E+00	2.20E+01	pCi/L	U
2153	655820001	2/21/2024	Cerium-144	6.77E+00	8.55E+00	2.97E+01	pCi/L	U
2153	659314001	3/20/2024	Cerium-144	7.65E+00	7.45E+00	2.51E+01	pCi/L	U
2153	662074029	4/17/2024	Cerium-144	-3.07E+00	3.99E+00	1.04E+01	pCi/L	U
2153	667160001	5/14/2024	Cerium-144	8.36E+00	7.39E+00	2.56E+01	pCi/L	U
2153	670838001	6/11/2024	Cerium-144	-1.04E+01	6.12E+00	1.80E+01	pCi/L	U
2153	674337001	7/10/2024	Cerium-144	1.92E+00	6.19E+00	2.06E+01	pCi/L	U
2153	679203001	8/6/2024	Cerium-144	-1.92E+00	6.70E+00	2.10E+01	pCi/L	U
2153	683693001	9/2/2024	Cerium-144	1.87E+00	8.69E+00	2.89E+01	pCi/L	U
2153	692328001	10/31/2024	Cerium-144	1.96E+01	2.04E+01	2.16E+01	pCi/L	U
2153	697368001	11/27/2024	Cerium-144	2.23E-01	8.20E+00	2.72E+01	pCi/L	U
2153	701912001	12/27/2024	Cerium-144	-2.84E+00	3.26E+00	1.04E+01	pCi/L	U
2153	652269001	1/25/2024	Cesium-134	3.14E+00	1.87E+00	4.07E+00	pCi/L	U
2153	655820001	2/21/2024	Cesium-134	-1.97E+00	1.43E+00	3.17E+00	pCi/L	U
2153	659314001	3/20/2024	Cesium-134	-1.01E+00	1.31E+00	3.82E+00	pCi/L	U
2153	662074029	4/17/2024	Cesium-134	-3.59E-01	4.97E-01	1.44E+00	pCi/L	U
2153	667160001	5/14/2024	Cesium-134	-8.03E-01	1.66E+00	4.65E+00	pCi/L	U
2153	670838001	6/11/2024	Cesium-134	2.46E+00	1.59E+00	3.76E+00	pCi/L	U
2153	674337001	7/10/2024	Cesium-134	5.98E-01	1.08E+00	3.63E+00	pCi/L	U
2153	679203001	8/6/2024	Cesium-134	3.62E-01	9.78E-01	3.25E+00	pCi/L	U
2153	683693001	9/2/2024	Cesium-134	-5.55E-01	1.18E+00	3.57E+00	pCi/L	U
2153	692328001	10/31/2024	Cesium-134	-1.35E-01	2.22E+00	3.76E+00	pCi/L	U
2153	697368001	11/27/2024	Cesium-134	-1.28E+00	1.38E+00	3.97E+00	pCi/L	U
2153	701912001	12/27/2024	Cesium-134	5.95E-01	5.47E-01	1.84E+00	pCi/L	U
2153	652269001	1/25/2024	Cesium-137	-1.25E+00	1.02E+00	2.91E+00	pCi/L	U
2153	655820001	2/21/2024	Cesium-137	-9.17E-01	1.26E+00	3.91E+00	pCi/L	U
2153	659314001	3/20/2024	Cesium-137	1.22E+00	1.14E+00	4.06E+00	pCi/L	U
2153	662074029	4/17/2024	Cesium-137	-1.47E-01	4.55E-01	1.46E+00	pCi/L	U
2153	667160001	5/14/2024	Cesium-137	-8.75E-01	1.18E+00	3.44E+00	pCi/L	U
2153	670838001	6/11/2024	Cesium-137	2.98E-01	9.51E-01	3.20E+00	pCi/L	U
2153	674337001	7/10/2024	Cesium-137	-1.23E+00	1.17E+00	3.12E+00	pCi/L	U
2153	679203001	8/6/2024	Cesium-137	7.39E-01	1.02E+00	3.52E+00	pCi/L	U
2153	683693001	9/2/2024	Cesium-137	-1.39E+00	1.51E+00	4.25E+00	pCi/L	U
2153	692328001	10/31/2024	Cesium-137	2.52E-01	2.65E+00	4.39E+00	pCi/L	U
2153	697368001	11/27/2024	Cesium-137	3.69E-01	1.28E+00	4.33E+00	pCi/L	U
2153	701912001	12/27/2024	Cesium-137	1.29E+00	1.31E+00	1.62E+00	pCi/L	U
2153	652269001	1/25/2024	Chromium-51	-8.81E+00	9.57E+00	2.80E+01	pCi/L	U
2153	655820001	2/21/2024	Chromium-51	4.44E+00	1.23E+01	4.05E+01	pCi/L	U
2153	659314001	3/20/2024	Chromium-51	-3.08E+00	1.14E+01	3.80E+01	pCi/L	U

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Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	662074029	4/17/2024	Chromium-51	9.10E+00	4.82E+00	1.72E+01	pCi/L	U
2153	667160001	5/14/2024	Chromium-51	-1.39E+00	9.88E+00	3.33E+01	pCi/L	U
2153	670838001	6/11/2024	Chromium-51	-4.22E+00	8.27E+00	2.75E+01	pCi/L	U
2153	674337001	7/10/2024	Chromium-51	-1.50E+01	1.07E+01	3.08E+01	pCi/L	U
2153	679203001	8/6/2024	Chromium-51	-1.56E+00	9.50E+00	3.17E+01	pCi/L	U
2153	683693001	9/2/2024	Chromium-51	9.80E+00	1.40E+01	4.29E+01	pCi/L	U
2153	692328001	10/31/2024	Chromium-51	2.04E+00	1.93E+01	3.38E+01	pCi/L	U
2153	697368001	11/27/2024	Chromium-51	-2.07E+00	1.29E+01	3.98E+01	pCi/L	U
2153	701912001	12/27/2024	Chromium-51	1.27E+00	5.95E+00	2.05E+01	pCi/L	U
2153	652269001	1/25/2024	Cobalt-57	-6.38E-02	8.57E-01	2.73E+00	pCi/L	U
2153	655820001	2/21/2024	Cobalt-57	9.18E-02	1.14E+00	3.86E+00	pCi/L	U
2153	659314001	3/20/2024	Cobalt-57	-1.24E+00	8.70E-01	2.57E+00	pCi/L	U
2153	662074029	4/17/2024	Cobalt-57	1.39E-01	4.25E-01	1.37E+00	pCi/L	U
2153	667160001	5/14/2024	Cobalt-57	-6.79E-03	9.37E-01	3.08E+00	pCi/L	U
2153	670838001	6/11/2024	Cobalt-57	-4.55E-01	8.55E-01	2.72E+00	pCi/L	U
2153	674337001	7/10/2024	Cobalt-57	-9.15E-02	8.39E-01	2.77E+00	pCi/L	U
2153	679203001	8/6/2024	Cobalt-57	6.68E-01	9.68E-01	2.61E+00	pCi/L	U
2153	683693001	9/2/2024	Cobalt-57	2.99E-01	1.22E+00	4.10E+00	pCi/L	U
2153	692328001	10/31/2024	Cobalt-57	-1.78E+00	1.78E+00	2.65E+00	pCi/L	U
2153	697368001	11/27/2024	Cobalt-57	-9.31E-01	1.23E+00	3.62E+00	pCi/L	U
2153	701912001	12/27/2024	Cobalt-57	1.09E+00	4.01E-01	1.38E+00	pCi/L	U
2153	652269001	1/25/2024	Cobalt-58	-1.68E+00	9.87E-01	2.46E+00	pCi/L	U
2153	655820001	2/21/2024	Cobalt-58	-2.02E+00	1.47E+00	4.20E+00	pCi/L	U
2153	659314001	3/20/2024	Cobalt-58	-1.12E+00	1.17E+00	3.27E+00	pCi/L	U
2153	662074029	4/17/2024	Cobalt-58	1.25E+00	5.12E-01	1.56E+00	pCi/L	U
2153	667160001	5/14/2024	Cobalt-58	1.10E+00	1.26E+00	4.60E+00	pCi/L	U
2153	670838001	6/11/2024	Cobalt-58	8.57E-01	9.09E-01	3.23E+00	pCi/L	U
2153	674337001	7/10/2024	Cobalt-58	4.10E-01	7.89E-01	2.67E+00	pCi/L	U
2153	679203001	8/6/2024	Cobalt-58	-3.16E+00	1.11E+00	2.27E+00	pCi/L	U
2153	683693001	9/2/2024	Cobalt-58	-4.75E-02	1.19E+00	3.81E+00	pCi/L	U
2153	692328001	10/31/2024	Cobalt-58	2.28E+00	2.58E+00	5.07E+00	pCi/L	U
2153	697368001	11/27/2024	Cobalt-58	1.94E+00	1.18E+00	4.55E+00	pCi/L	U
2153	701912001	12/27/2024	Cobalt-58	1.26E-01	5.97E-01	1.94E+00	pCi/L	U
2153	652269001	1/25/2024	Cobalt-60	-1.33E+00	9.58E-01	2.52E+00	pCi/L	U
2153	655820001	2/21/2024	Cobalt-60	1.76E+00	1.35E+00	5.13E+00	pCi/L	U
2153	659314001	3/20/2024	Cobalt-60	-3.48E-01	1.18E+00	3.72E+00	pCi/L	U
2153	662074029	4/17/2024	Cobalt-60	8.83E-01	4.74E-01	1.77E+00	pCi/L	U
2153	667160001	5/14/2024	Cobalt-60	1.21E+00	1.27E+00	4.67E+00	pCi/L	U
2153	670838001	6/11/2024	Cobalt-60	6.60E-02	1.21E+00	3.57E+00	pCi/L	U
2153	674337001	7/10/2024	Cobalt-60	-8.24E-01	9.90E-01	3.02E+00	pCi/L	U
2153	679203001	8/6/2024	Cobalt-60	-2.48E-02	1.12E+00	3.80E+00	pCi/L	U
2153	683693001	9/2/2024	Cobalt-60	3.65E-01	1.36E+00	4.68E+00	pCi/L	U
2153	692328001	10/31/2024	Cobalt-60	4.64E-01	2.32E+00	4.04E+00	pCi/L	U
2153	697368001	11/27/2024	Cobalt-60	9.12E-01	1.09E+00	4.13E+00	pCi/L	U
2153	701912001	12/27/2024	Cobalt-60	1.52E-01	4.52E-01	1.54E+00	pCi/L	U
2153	652269001	1/25/2024	Iodine-131	1.36E+00	1.89E+00	6.65E+00	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	655820001	2/21/2024	Iodine-131	1.07E+00	2.72E+00	8.92E+00	pCi/L	U
2153	659314001	3/20/2024	Iodine-131	-3.17E-01	1.94E+00	6.42E+00	pCi/L	U
2153	662074029	4/17/2024	Iodine-131	-1.09E+00	1.31E+00	4.30E+00	pCi/L	U
2153	667160001	5/14/2024	Iodine-131	1.29E+00	1.96E+00	6.88E+00	pCi/L	U
2153	670838001	6/11/2024	Iodine-131	-1.39E+00	1.60E+00	5.13E+00	pCi/L	U
2153	674337001	7/10/2024	Iodine-131	-3.58E+00	2.47E+00	7.90E+00	pCi/L	U
2153	679203001	8/6/2024	Iodine-131	-2.18E-01	1.67E+00	5.52E+00	pCi/L	U
2153	683693001	9/2/2024	Iodine-131	-3.58E+00	3.08E+00	9.27E+00	pCi/L	U
2153	692328001	10/31/2024	Iodine-131	-3.40E+00	4.19E+00	6.40E+00	pCi/L	U
2153	697368001	11/27/2024	Iodine-131	1.70E+01	4.58E+00	7.64E+00	pCi/L	UI
2153	701912001	12/27/2024	Iodine-131	-3.69E-01	2.70E+00	9.15E+00	pCi/L	U
2153	652269001	1/25/2024	Iron-59	6.71E-01	1.99E+00	6.97E+00	pCi/L	U
2153	655820001	2/21/2024	Iron-59	-1.66E+00	3.15E+00	8.59E+00	pCi/L	U
2153	659314001	3/20/2024	Iron-59	3.17E+00	2.74E+00	1.01E+01	pCi/L	U
2153	662074029	4/17/2024	Iron-59	-8.83E-01	1.01E+00	3.26E+00	pCi/L	U
2153	667160001	5/14/2024	Iron-59	-4.71E+00	2.56E+00	6.37E+00	pCi/L	U
2153	670838001	6/11/2024	Iron-59	-9.22E-01	1.67E+00	5.24E+00	pCi/L	U
2153	674337001	7/10/2024	Iron-59	0.00E+00	1.85E+00	6.25E+00	pCi/L	U
2153	679203001	8/6/2024	Iron-59	-6.23E-01	2.03E+00	6.55E+00	pCi/L	U
2153	683693001	9/2/2024	Iron-59	-1.35E+00	2.31E+00	7.20E+00	pCi/L	U
2153	692328001	10/31/2024	Iron-59	6.41E-01	4.39E+00	7.62E+00	pCi/L	U
2153	697368001	11/27/2024	Iron-59	1.95E+00	2.97E+00	1.07E+01	pCi/L	U
2153	701912001	12/27/2024	Iron-59	-4.73E-01	1.05E+00	3.51E+00	pCi/L	U
2153	652269001	1/25/2024	Lanthanum-140	5.36E-01	1.73E+00	5.97E+00	pCi/L	U
2153	655820001	2/21/2024	Lanthanum-140	-3.13E+00	2.51E+00	6.85E+00	pCi/L	U
2153	659314001	3/20/2024	Lanthanum-140	-3.10E+00	2.34E+00	6.04E+00	pCi/L	U
2153	662074029	4/17/2024	Lanthanum-140	-2.29E-03	1.02E+00	3.38E+00	pCi/L	U
2153	667160001	5/14/2024	Lanthanum-140	-6.41E-01	2.32E+00	7.52E+00	pCi/L	U
2153	670838001	6/11/2024	Lanthanum-140	2.85E+00	1.77E+00	6.96E+00	pCi/L	U
2153	674337001	7/10/2024	Lanthanum-140	-2.18E+00	1.93E+00	5.37E+00	pCi/L	U
2153	679203001	8/6/2024	Lanthanum-140	-7.61E-01	1.36E+00	3.89E+00	pCi/L	U
2153	683693001	9/2/2024	Lanthanum-140	-5.83E+00	2.36E+00	3.12E+00	pCi/L	U
2153	692328001	10/31/2024	Lanthanum-140	-1.11E+00	3.41E+00	5.12E+00	pCi/L	U
2153	697368001	11/27/2024	Lanthanum-140	1.24E-02	2.42E+00	7.96E+00	pCi/L	U
2153	701912001	12/27/2024	Lanthanum-140	-1.45E+00	2.14E+00	4.81E+00	pCi/L	U
2153	652269001	1/25/2024	Lead-210	6.53E+01	5.93E+01	1.29E+02	pCi/L	U
2153	655820001	2/21/2024	Lead-210	3.80E+02	5.20E+02	1.71E+03	pCi/L	U
2153	659314001	3/20/2024	Lead-210	-1.24E+01	1.92E+02	5.97E+02	pCi/L	U
2153	662074029	4/17/2024	Lead-210	-3.45E+01	2.97E+01	7.25E+01	pCi/L	U
2153	667160001	5/14/2024	Lead-210	7.18E+01	2.53E+02	7.98E+02	pCi/L	U
2153	670838001	6/11/2024	Lead-210	-5.11E+02	2.68E+02	7.61E+02	pCi/L	U
2153	674337001	7/10/2024	Lead-210	-1.31E+03	5.28E+02	1.35E+03	pCi/L	U
2153	679203001	8/6/2024	Lead-210	-7.17E+01	9.05E+01	2.78E+02	pCi/L	U
2153	683693001	9/2/2024	Lead-210	7.23E+02	5.35E+02	1.97E+03	pCi/L	U
2153	692328001	10/31/2024	Lead-210	2.39E+02	6.33E+02	6.01E+02	pCi/L	U
2153	697368001	11/27/2024	Lead-210	3.81E+02	7.09E+02	2.13E+03	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	701912001	12/27/2024	Lead-210	-2.02E+02	1.08E+02	2.31E+02	pCi/L	U
2153	652269001	1/25/2024	Lead-212	1.12E+00	3.63E+00	8.68E+00	pCi/L	U
2153	655820001	2/21/2024	Lead-212	9.15E+00	5.06E+00	1.11E+01	pCi/L	U
2153	659314001	3/20/2024	Lead-212	4.70E+00	4.06E+00	6.53E+00	pCi/L	U
2153	662074029	4/17/2024	Lead-212	1.42E+00	2.00E+00	3.81E+00	pCi/L	U
2153	667160001	5/14/2024	Lead-212	8.15E+00	4.86E+00	8.28E+00	pCi/L	U
2153	670838001	6/11/2024	Lead-212	5.57E-01	3.57E+00	5.93E+00	pCi/L	U
2153	674337001	7/10/2024	Lead-212	-2.08E-01	2.21E+00	6.45E+00	pCi/L	U
2153	679203001	8/6/2024	Lead-212	3.79E+00	2.79E+00	7.05E+00	pCi/L	U
2153	683693001	9/2/2024	Lead-212	-1.36E+00	2.72E+00	8.37E+00	pCi/L	U
2153	692328001	10/31/2024	Lead-212	5.12E+00	7.21E+00	7.99E+00	pCi/L	U
2153	697368001	11/27/2024	Lead-212	5.00E+00	4.84E+00	9.85E+00	pCi/L	U
2153	701912001	12/27/2024	Lead-212	-2.29E-01	1.32E+00	3.39E+00	pCi/L	U
2153	652269001	1/25/2024	Lead-214	5.41E+00	3.28E+00	9.12E+00	pCi/L	U
2153	655820001	2/21/2024	Lead-214	-4.55E-02	3.52E+00	1.09E+01	pCi/L	U
2153	659314001	3/20/2024	Lead-214	9.75E+00	7.37E+00	9.33E+00	pCi/L	UI
2153	662074029	4/17/2024	Lead-214	1.82E+00	2.76E+00	4.15E+00	pCi/L	U
2153	667160001	5/14/2024	Lead-214	-2.82E+00	3.21E+00	9.57E+00	pCi/L	U
2153	670838001	6/11/2024	Lead-214	1.81E+00	3.83E+00	8.88E+00	pCi/L	U
2153	674337001	7/10/2024	Lead-214	2.54E+00	3.19E+00	8.10E+00	pCi/L	U
2153	679203001	8/6/2024	Lead-214	1.14E+01	3.25E+00	9.40E+00	pCi/L	UI
2153	683693001	9/2/2024	Lead-214	-6.60E+00	3.36E+00	1.02E+01	pCi/L	U
2153	692328001	10/31/2024	Lead-214	1.69E+00	6.33E+00	1.08E+01	pCi/L	U
2153	697368001	11/27/2024	Lead-214	9.36E-01	4.17E+00	1.38E+01	pCi/L	U
2153	701912001	12/27/2024	Lead-214	1.37E+00	1.10E+00	3.86E+00	pCi/L	U
2153	652269001	1/25/2024	Manganese-54	4.83E-02	1.11E+00	3.58E+00	pCi/L	U
2153	655820001	2/21/2024	Manganese-54	-8.33E-01	1.17E+00	3.54E+00	pCi/L	U
2153	659314001	3/20/2024	Manganese-54	-5.62E-01	1.14E+00	2.94E+00	pCi/L	U
2153	662074029	4/17/2024	Manganese-54	-3.05E-01	4.66E-01	1.44E+00	pCi/L	U
2153	667160001	5/14/2024	Manganese-54	2.24E-01	8.92E-01	3.10E+00	pCi/L	U
2153	670838001	6/11/2024	Manganese-54	1.18E+00	8.30E-01	3.10E+00	pCi/L	U
2153	674337001	7/10/2024	Manganese-54	2.54E-02	9.51E-01	3.07E+00	pCi/L	U
2153	679203001	8/6/2024	Manganese-54	5.39E-01	1.02E+00	3.62E+00	pCi/L	U
2153	683693001	9/2/2024	Manganese-54	1.21E-01	1.35E+00	4.37E+00	pCi/L	U
2153	692328001	10/31/2024	Manganese-54	1.28E-01	2.30E+00	3.53E+00	pCi/L	U
2153	697368001	11/27/2024	Manganese-54	2.68E+00	1.88E+00	3.62E+00	pCi/L	U
2153	701912001	12/27/2024	Manganese-54	-2.50E-03	5.12E-01	1.65E+00	pCi/L	U
2153	652269001	1/25/2024	Molybdenum-99	5.70E+01	5.97E+01	2.12E+02	pCi/L	U
2153	655820001	2/21/2024	Molybdenum-99	-1.03E+02	7.27E+01	2.09E+02	pCi/L	U
2153	659314001	3/20/2024	Molybdenum-99	-1.92E+01	6.46E+01	2.00E+02	pCi/L	U
2153	662074029	4/17/2024	Molybdenum-99	6.81E+01	8.46E+01	2.85E+02	pCi/L	U
2153	667160001	5/14/2024	Molybdenum-99	-2.36E+01	4.74E+01	1.43E+02	pCi/L	U
2153	670838001	6/11/2024	Molybdenum-99	3.69E+01	4.23E+01	1.49E+02	pCi/L	U
2153	674337001	7/10/2024	Molybdenum-99	-1.87E+02	1.28E+02	3.57E+02	pCi/L	U
2153	679203001	8/6/2024	Molybdenum-99	-9.08E+01	6.73E+01	1.63E+02	pCi/L	U
2153	683693001	9/2/2024	Molybdenum-99	-1.20E+02	1.07E+02	3.01E+02	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	692328001	10/31/2024	Molybdenum-99	4.49E+01	1.12E+02	2.06E+02	pCi/L	U
2153	697368001	11/27/2024	Molybdenum-99	3.06E+01	8.39E+01	2.86E+02	pCi/L	U
2153	701912001	12/27/2024	Molybdenum-99	3.97E+02	6.13E+02	2.04E+03	pCi/L	U
2153	652269001	1/25/2024	Niobium-95	-1.71E+00	1.19E+00	3.15E+00	pCi/L	U
2153	655820001	2/21/2024	Niobium-95	3.06E-01	1.61E+00	5.03E+00	pCi/L	U
2153	659314001	3/20/2024	Niobium-95	1.88E+00	1.13E+00	4.22E+00	pCi/L	U
2153	662074029	4/17/2024	Niobium-95	5.87E-01	5.14E-01	1.76E+00	pCi/L	U
2153	667160001	5/14/2024	Niobium-95	2.14E-01	1.23E+00	4.24E+00	pCi/L	U
2153	670838001	6/11/2024	Niobium-95	-2.51E-01	9.18E-01	2.88E+00	pCi/L	U
2153	674337001	7/10/2024	Niobium-95	-1.33E-01	1.08E+00	3.48E+00	pCi/L	U
2153	679203001	8/6/2024	Niobium-95	-2.17E-01	1.20E+00	3.06E+00	pCi/L	U
2153	683693001	9/2/2024	Niobium-95	-2.48E-01	1.42E+00	4.51E+00	pCi/L	U
2153	692328001	10/31/2024	Niobium-95	-2.61E-02	2.42E+00	4.17E+00	pCi/L	U
2153	697368001	11/27/2024	Niobium-95	-2.24E-01	1.18E+00	3.30E+00	pCi/L	U
2153	701912001	12/27/2024	Niobium-95	-3.67E-01	5.75E-01	1.82E+00	pCi/L	U
2153	652269001	1/25/2024	Potassium-40	3.98E+00	1.70E+01	2.81E+01	pCi/L	U
2153	655820001	2/21/2024	Potassium-40	-1.79E+01	1.79E+01	6.08E+01	pCi/L	U
2153	659314001	3/20/2024	Potassium-40	-1.79E+01	1.56E+01	4.81E+01	pCi/L	U
2153	662074029	4/17/2024	Potassium-40	1.62E+01	1.16E+01	1.48E+01	pCi/L	
2153	667160001	5/14/2024	Potassium-40	-1.48E+01	1.83E+01	5.54E+01	pCi/L	U
2153	670838001	6/11/2024	Potassium-40	-8.12E+00	1.61E+01	5.04E+01	pCi/L	U
2153	674337001	7/10/2024	Potassium-40	1.57E+00	1.53E+01	5.00E+01	pCi/L	U
2153	679203001	8/6/2024	Potassium-40	2.09E+01	1.91E+01	3.61E+01	pCi/L	U
2153	683693001	9/2/2024	Potassium-40	-1.59E+01	1.95E+01	7.12E+01	pCi/L	U
2153	692328001	10/31/2024	Potassium-40	-2.51E+01	3.67E+01	6.04E+01	pCi/L	U
2153	697368001	11/27/2024	Potassium-40	4.25E+01	2.59E+01	3.21E+01	pCi/L	UI
2153	701912001	12/27/2024	Potassium-40	-2.76E+01	7.52E+00	1.74E+01	pCi/L	U
2153	652269001	1/25/2024	Radium-226	4.48E+01	3.96E+01	5.31E+01	pCi/L	U
2153	655820001	2/21/2024	Radium-226	2.76E+01	5.50E+01	8.78E+01	pCi/L	U
2153	659314001	3/20/2024	Radium-226	-6.03E+01	2.94E+01	8.78E+01	pCi/L	U
2153	662074029	4/17/2024	Radium-226	-5.14E+01	1.86E+01	4.04E+01	pCi/L	U
2153	667160001	5/14/2024	Radium-226	4.39E+01	4.38E+01	7.30E+01	pCi/L	U
2153	670838001	6/11/2024	Radium-226	-3.95E+01	3.03E+01	1.00E+02	pCi/L	U
2153	674337001	7/10/2024	Radium-226	3.02E+01	4.62E+01	6.09E+01	pCi/L	U
2153	679203001	8/6/2024	Radium-226	2.20E+00	4.08E+01	5.99E+01	pCi/L	U
2153	683693001	9/2/2024	Radium-226	7.82E+01	5.93E+01	9.07E+01	pCi/L	U
2153	692328001	10/31/2024	Radium-226	-2.46E+01	6.12E+01	1.02E+02	pCi/L	U
2153	697368001	11/27/2024	Radium-226	1.03E+02	6.06E+01	8.47E+01	pCi/L	UI
2153	701912001	12/27/2024	Radium-226	3.44E+01	2.54E+01	3.16E+01	pCi/L	UI
2153	652269001	1/25/2024	Radium-228	1.13E+00	4.17E+00	1.38E+01	pCi/L	U
2153	655820001	2/21/2024	Radium-228	2.15E+01	8.95E+00	2.40E+01	pCi/L	U
2153	659314001	3/20/2024	Radium-228	2.03E+00	5.39E+00	1.82E+01	pCi/L	U
2153	662074029	4/17/2024	Radium-228	-3.80E+00	2.69E+00	6.79E+00	pCi/L	U
2153	667160001	5/14/2024	Radium-228	6.16E+00	6.35E+00	2.21E+01	pCi/L	U
2153	670838001	6/11/2024	Radium-228	1.73E+00	4.55E+00	1.42E+01	pCi/L	U
2153	674337001	7/10/2024	Radium-228	1.42E+01	6.44E+00	1.37E+01	pCi/L	UI

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	679203001	8/6/2024	Radium-228	2.56E+00	5.12E+00	1.45E+01	pCi/L	U
2153	683693001	9/2/2024	Radium-228	1.26E+01	5.45E+00	1.97E+01	pCi/L	U
2153	692328001	10/31/2024	Radium-228	-1.17E+01	9.79E+00	1.52E+01	pCi/L	U
2153	697368001	11/27/2024	Radium-228	-9.89E+00	6.62E+00	1.88E+01	pCi/L	U
2153	701912001	12/27/2024	Radium-228	-2.75E+00	4.14E+00	6.98E+00	pCi/L	U
2153	652269001	1/25/2024	Ruthenium-103	8.87E-02	9.49E-01	3.17E+00	pCi/L	U
2153	655820001	2/21/2024	Ruthenium-103	-4.83E-01	1.45E+00	4.80E+00	pCi/L	U
2153	659314001	3/20/2024	Ruthenium-103	0.00E+00	1.26E+00	3.72E+00	pCi/L	U
2153	662074029	4/17/2024	Ruthenium-103	1.34E-01	5.70E-01	1.71E+00	pCi/L	U
2153	667160001	5/14/2024	Ruthenium-103	-3.83E-01	1.21E+00	3.86E+00	pCi/L	U
2153	670838001	6/11/2024	Ruthenium-103	-2.00E+00	1.17E+00	3.47E+00	pCi/L	U
2153	674337001	7/10/2024	Ruthenium-103	3.30E-01	9.53E-01	3.26E+00	pCi/L	U
2153	679203001	8/6/2024	Ruthenium-103	-2.02E+00	1.05E+00	2.89E+00	pCi/L	U
2153	683693001	9/2/2024	Ruthenium-103	7.06E-01	1.14E+00	4.05E+00	pCi/L	U
2153	692328001	10/31/2024	Ruthenium-103	-3.30E+00	2.76E+00	3.73E+00	pCi/L	U
2153	697368001	11/27/2024	Ruthenium-103	-1.05E+00	1.06E+00	3.20E+00	pCi/L	U
2153	701912001	12/27/2024	Ruthenium-103	-1.32E-01	6.67E-01	1.98E+00	pCi/L	U
2153	652269001	1/25/2024	Ruthenium-106	-1.24E+01	9.42E+00	2.70E+01	pCi/L	U
2153	655820001	2/21/2024	Ruthenium-106	1.73E+01	1.15E+01	4.26E+01	pCi/L	U
2153	659314001	3/20/2024	Ruthenium-106	-1.42E+00	9.47E+00	2.67E+01	pCi/L	U
2153	662074029	4/17/2024	Ruthenium-106	-4.02E-01	4.16E+00	1.36E+01	pCi/L	U
2153	667160001	5/14/2024	Ruthenium-106	-1.23E+01	1.04E+01	2.90E+01	pCi/L	U
2153	670838001	6/11/2024	Ruthenium-106	5.98E+00	7.55E+00	2.67E+01	pCi/L	U
2153	674337001	7/10/2024	Ruthenium-106	1.07E+01	7.95E+00	2.85E+01	pCi/L	U
2153	679203001	8/6/2024	Ruthenium-106	1.09E+01	8.54E+00	3.08E+01	pCi/L	U
2153	683693001	9/2/2024	Ruthenium-106	-3.20E+00	1.20E+01	3.41E+01	pCi/L	U
2153	692328001	10/31/2024	Ruthenium-106	-2.86E+00	2.30E+01	3.69E+01	pCi/L	U
2153	697368001	11/27/2024	Ruthenium-106	6.92E+00	1.09E+01	3.81E+01	pCi/L	U
2153	701912001	12/27/2024	Ruthenium-106	6.10E+00	6.03E+00	1.43E+01	pCi/L	U
2153	652269001	1/25/2024	Selenium-75	2.23E-01	1.00E+00	3.47E+00	pCi/L	U
2153	655820001	2/21/2024	Selenium-75	1.11E+00	1.56E+00	5.32E+00	pCi/L	U
2153	659314001	3/20/2024	Selenium-75	-2.46E-01	1.38E+00	4.69E+00	pCi/L	U
2153	662074029	4/17/2024	Selenium-75	-9.92E-02	6.33E-01	2.16E+00	pCi/L	U
2153	667160001	5/14/2024	Selenium-75	-7.78E-01	1.53E+00	4.56E+00	pCi/L	U
2153	670838001	6/11/2024	Selenium-75	1.33E+00	1.34E+00	4.49E+00	pCi/L	U
2153	674337001	7/10/2024	Selenium-75	-1.13E-01	1.31E+00	4.11E+00	pCi/L	U
2153	679203001	8/6/2024	Selenium-75	-7.97E-01	1.17E+00	3.83E+00	pCi/L	U
2153	683693001	9/2/2024	Selenium-75	7.89E-01	1.92E+00	6.22E+00	pCi/L	U
2153	692328001	10/31/2024	Selenium-75	1.55E+00	2.84E+00	5.27E+00	pCi/L	U
2153	697368001	11/27/2024	Selenium-75	-2.58E+00	1.75E+00	4.95E+00	pCi/L	U
2153	701912001	12/27/2024	Selenium-75	-7.94E-01	6.94E-01	2.11E+00	pCi/L	U
2153	652269001	1/25/2024	Silver-108m	3.23E-01	8.90E-01	3.05E+00	pCi/L	U
2153	655820001	2/21/2024	Silver-108m	-1.87E-01	1.22E+00	3.81E+00	pCi/L	U
2153	659314001	3/20/2024	Silver-108m	1.30E+00	7.58E-01	2.90E+00	pCi/L	U
2153	662074029	4/17/2024	Silver-108m	1.36E-01	4.05E-01	1.37E+00	pCi/L	U
2153	667160001	5/14/2024	Silver-108m	-4.98E-01	1.04E+00	3.34E+00	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	670838001	6/11/2024	Silver-108m	5.81E-01	8.83E-01	3.10E+00	pCi/L	U
2153	674337001	7/10/2024	Silver-108m	-8.79E-01	7.99E-01	2.55E+00	pCi/L	U
2153	679203001	8/6/2024	Silver-108m	-1.78E-01	8.74E-01	2.85E+00	pCi/L	U
2153	683693001	9/2/2024	Silver-108m	1.17E+00	1.16E+00	4.19E+00	pCi/L	U
2153	692328001	10/31/2024	Silver-108m	1.10E+00	2.22E+00	4.00E+00	pCi/L	U
2153	697368001	11/27/2024	Silver-108m	-1.01E+00	1.11E+00	3.53E+00	pCi/L	U
2153	701912001	12/27/2024	Silver-108m	6.56E-01	8.54E-01	1.61E+00	pCi/L	U
2153	652269001	1/25/2024	Silver-110m	-1.74E+00	1.38E+00	3.70E+00	pCi/L	U
2153	655820001	2/21/2024	Silver-110m	-5.23E-01	1.92E+00	6.07E+00	pCi/L	U
2153	659314001	3/20/2024	Silver-110m	1.93E+00	1.30E+00	5.07E+00	pCi/L	U
2153	662074029	4/17/2024	Silver-110m	5.31E-01	6.36E-01	2.14E+00	pCi/L	U
2153	667160001	5/14/2024	Silver-110m	-2.00E-01	1.56E+00	5.18E+00	pCi/L	U
2153	670838001	6/11/2024	Silver-110m	-1.39E+00	1.08E+00	2.76E+00	pCi/L	U
2153	674337001	7/10/2024	Silver-110m	2.75E+00	1.03E+00	4.13E+00	pCi/L	U
2153	679203001	8/6/2024	Silver-110m	-1.38E+00	1.38E+00	4.23E+00	pCi/L	U
2153	683693001	9/2/2024	Silver-110m	-3.91E-01	1.63E+00	5.05E+00	pCi/L	U
2153	692328001	10/31/2024	Silver-110m	-2.02E+00	4.65E+00	6.26E+00	pCi/L	U
2153	697368001	11/27/2024	Silver-110m	1.38E+00	1.71E+00	6.02E+00	pCi/L	U
2153	701912001	12/27/2024	Silver-110m	-7.58E-01	6.85E-01	2.10E+00	pCi/L	U
2153	652269001	1/25/2024	Tellurium-132	-4.88E+00	6.13E+00	1.75E+01	pCi/L	U
2153	655820001	2/21/2024	Tellurium-132	3.75E-03	5.89E+00	1.94E+01	pCi/L	U
2153	659314001	3/20/2024	Tellurium-132	3.86E+00	5.58E+00	1.82E+01	pCi/L	U
2153	662074029	4/17/2024	Tellurium-132	-1.74E+00	6.22E+00	1.92E+01	pCi/L	U
2153	667160001	5/14/2024	Tellurium-132	1.78E+00	3.93E+00	1.27E+01	pCi/L	U
2153	670838001	6/11/2024	Tellurium-132	-3.45E-01	3.94E+00	1.24E+01	pCi/L	U
2153	674337001	7/10/2024	Tellurium-132	3.47E+01	1.92E+01	3.63E+01	pCi/L	U
2153	679203001	8/6/2024	Tellurium-132	3.05E+00	4.54E+00	1.61E+01	pCi/L	U
2153	683693001	9/2/2024	Tellurium-132	1.16E+01	9.15E+00	3.15E+01	pCi/L	U
2153	692328001	10/31/2024	Tellurium-132	5.94E+00	9.75E+00	1.68E+01	pCi/L	U
2153	697368001	11/27/2024	Tellurium-132	3.16E+00	8.72E+00	2.85E+01	pCi/L	U
2153	701912001	12/27/2024	Tellurium-132	-4.24E+01	3.51E+01	1.08E+02	pCi/L	U
2153	652269001	1/25/2024	Thallium-208	3.87E+00	1.93E+00	3.24E+00	pCi/L	UI
2153	655820001	2/21/2024	Thallium-208	3.42E-02	1.69E+00	5.42E+00	pCi/L	U
2153	659314001	3/20/2024	Thallium-208	3.08E+00	1.48E+00	2.82E+00	pCi/L	UI
2153	662074029	4/17/2024	Thallium-208	-1.19E+00	7.77E-01	1.86E+00	pCi/L	U
2153	667160001	5/14/2024	Thallium-208	1.48E+00	1.29E+00	4.50E+00	pCi/L	U
2153	670838001	6/11/2024	Thallium-208	-2.92E-01	1.16E+00	3.56E+00	pCi/L	U
2153	674337001	7/10/2024	Thallium-208	9.08E-01	1.78E+00	3.29E+00	pCi/L	U
2153	679203001	8/6/2024	Thallium-208	-2.59E+00	1.10E+00	2.91E+00	pCi/L	U
2153	683693001	9/2/2024	Thallium-208	1.91E+00	2.06E+00	4.31E+00	pCi/L	U
2153	692328001	10/31/2024	Thallium-208	8.28E-01	2.94E+00	5.15E+00	pCi/L	U
2153	697368001	11/27/2024	Thallium-208	7.51E-01	1.57E+00	5.25E+00	pCi/L	U
2153	701912001	12/27/2024	Thallium-208	-1.27E+00	1.10E+00	1.90E+00	pCi/L	U
2153	652269001	1/25/2024	Thorium-228	1.12E+00	3.63E+00	8.68E+00	pCi/L	U
2153	655820001	2/21/2024	Thorium-228	9.15E+00	5.06E+00	1.11E+01	pCi/L	U
2153	659314001	3/20/2024	Thorium-228	4.70E+00	4.06E+00	6.53E+00	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	662074029	4/17/2024	Thorium-228	1.42E+00	2.00E+00	3.81E+00	pCi/L	U
2153	667160001	5/14/2024	Thorium-228	8.15E+00	4.86E+00	8.28E+00	pCi/L	U
2153	670838001	6/11/2024	Thorium-228	5.57E-01	3.57E+00	5.93E+00	pCi/L	U
2153	674337001	7/10/2024	Thorium-228	-2.08E-01	2.21E+00	6.45E+00	pCi/L	U
2153	679203001	8/6/2024	Thorium-228	3.79E+00	2.79E+00	7.05E+00	pCi/L	U
2153	683693001	9/2/2024	Thorium-228	-1.36E+00	2.72E+00	8.37E+00	pCi/L	U
2153	692328001	10/31/2024	Thorium-228	5.12E+00	7.21E+00	7.99E+00	pCi/L	U
2153	697368001	11/27/2024	Thorium-228	5.00E+00	4.84E+00	9.85E+00	pCi/L	U
2153	701912001	12/27/2024	Thorium-228	-2.29E-01	1.32E+00	3.39E+00	pCi/L	U
2153	652269001	1/25/2024	Thorium-230	7.23E+02	4.05E+02	7.94E+02	pCi/L	U
2153	655820001	2/21/2024	Thorium-230	2.10E+02	7.85E+02	2.47E+03	pCi/L	U
2153	659314001	3/20/2024	Thorium-230	1.58E+03	7.30E+02	1.34E+03	pCi/L	UI
2153	662074029	4/17/2024	Thorium-230	8.74E+02	2.58E+02	3.92E+02	pCi/L	UI
2153	667160001	5/14/2024	Thorium-230	1.55E+03	8.22E+02	1.58E+03	pCi/L	U
2153	670838001	6/11/2024	Thorium-230	-4.51E+01	4.33E+02	1.34E+03	pCi/L	U
2153	674337001	7/10/2024	Thorium-230	1.79E+03	9.93E+02	1.51E+03	pCi/L	UI
2153	679203001	8/6/2024	Thorium-230	2.04E+03	7.63E+02	8.88E+02	pCi/L	UI
2153	683693001	9/2/2024	Thorium-230	2.34E+03	1.07E+03	2.39E+03	pCi/L	U
2153	692328001	10/31/2024	Thorium-230	9.65E+02	1.50E+03	1.47E+03	pCi/L	U
2153	697368001	11/27/2024	Thorium-230	2.04E+03	1.26E+03	1.97E+03	pCi/L	UI
2153	701912001	12/27/2024	Thorium-230	6.50E+02	4.08E+02	5.66E+02	pCi/L	UI
2153	652269001	1/25/2024	Thorium-232	1.42E+03	9.70E+02	1.28E+03	pCi/L	UI
2153	655820001	2/21/2024	Thorium-232	6.44E+03	3.39E+03	4.14E+03	pCi/L	UI
2153	659314001	3/20/2024	Thorium-232	7.60E+01	1.19E+03	2.23E+03	pCi/L	U
2153	662074029	4/17/2024	Thorium-232	5.74E+02	4.83E+02	6.11E+02	pCi/L	U
2153	667160001	5/14/2024	Thorium-232	1.12E+03	8.00E+02	2.65E+03	pCi/L	U
2153	670838001	6/11/2024	Thorium-232	-1.34E+03	8.99E+02	2.79E+03	pCi/L	U
2153	674337001	7/10/2024	Thorium-232	-2.16E+03	1.27E+03	3.55E+03	pCi/L	U
2153	679203001	8/6/2024	Thorium-232	1.34E+03	7.66E+02	1.46E+03	pCi/L	U
2153	683693001	9/2/2024	Thorium-232	4.93E+03	2.06E+03	4.02E+03	pCi/L	UI
2153	692328001	10/31/2024	Thorium-232	1.63E+03	3.08E+03	2.66E+03	pCi/L	U
2153	697368001	11/27/2024	Thorium-232	1.70E+02	1.65E+03	4.85E+03	pCi/L	U
2153	701912001	12/27/2024	Thorium-232	2.82E+02	6.37E+02	1.02E+03	pCi/L	U
2153	652269001	1/25/2024	Thorium-234	1.00E+02	6.82E+01	1.25E+02	pCi/L	U
2153	655820001	2/21/2024	Thorium-234	-2.77E+01	1.18E+02	3.74E+02	pCi/L	U
2153	659314001	3/20/2024	Thorium-234	5.34E+00	8.33E+01	1.54E+02	pCi/L	U
2153	662074029	4/17/2024	Thorium-234	4.03E+01	3.39E+01	4.34E+01	pCi/L	U
2153	667160001	5/14/2024	Thorium-234	8.43E+01	7.24E+01	2.35E+02	pCi/L	U
2153	670838001	6/11/2024	Thorium-234	-1.17E+02	6.43E+01	1.97E+02	pCi/L	U
2153	674337001	7/10/2024	Thorium-234	-6.59E+01	8.97E+01	2.60E+02	pCi/L	U
2153	679203001	8/6/2024	Thorium-234	9.38E+01	5.39E+01	1.04E+02	pCi/L	U
2153	683693001	9/2/2024	Thorium-234	3.47E+02	1.45E+02	2.93E+02	pCi/L	UI
2153	692328001	10/31/2024	Thorium-234	1.14E+02	2.16E+02	2.66E+02	pCi/L	U
2153	697368001	11/27/2024	Thorium-234	-7.93E+01	1.22E+02	3.46E+02	pCi/L	U
2153	701912001	12/27/2024	Thorium-234	1.98E+01	4.48E+01	7.23E+01	pCi/L	U
2153	664027001	3/20/2024	Tritium	3.00E+01	2.14E+02	6.98E+02	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2153	695236001	9/2/2024	Tritium	2.75E+02	3.03E+02	9.74E+02	pCi/L	U
2153	706987001	12/27/2024	Tritium	5.23E+02	1.80E+02	5.29E+02	pCi/L	U
2153	652269001	1/25/2024	Uranium-234	2.55E+03	1.34E+03	3.30E+03	pCi/L	U
2153	655820001	2/21/2024	Uranium-234	2.16E+03	7.32E+03	2.35E+04	pCi/L	U
2153	659314001	3/20/2024	Uranium-234	2.96E+03	2.61E+03	9.20E+03	pCi/L	U
2153	662074029	4/17/2024	Uranium-234	-3.69E+02	5.13E+02	1.65E+03	pCi/L	U
2153	667160001	5/14/2024	Uranium-234	1.43E+03	3.25E+03	1.15E+04	pCi/L	U
2153	670838001	6/11/2024	Uranium-234	4.97E+02	3.13E+03	1.07E+04	pCi/L	U
2153	674337001	7/10/2024	Uranium-234	2.01E+04	8.83E+03	1.61E+04	pCi/L	UI
2153	679203001	8/6/2024	Uranium-234	2.92E+03	2.37E+03	4.21E+03	pCi/L	U
2153	683693001	9/2/2024	Uranium-234	4.88E+03	7.17E+03	2.54E+04	pCi/L	U
2153	692328001	10/31/2024	Uranium-234	7.01E+02	5.77E+03	1.03E+04	pCi/L	U
2153	697368001	11/27/2024	Uranium-234	7.56E+03	1.11E+04	2.23E+04	pCi/L	U
2153	701912001	12/27/2024	Uranium-234	8.63E+02	2.52E+03	3.84E+03	pCi/L	U
2153	652269001	1/25/2024	Zinc-65	-2.26E+00	2.17E+00	6.53E+00	pCi/L	U
2153	655820001	2/21/2024	Zinc-65	-1.10E+00	2.40E+00	7.66E+00	pCi/L	U
2153	659314001	3/20/2024	Zinc-65	-5.54E-01	2.25E+00	7.29E+00	pCi/L	U
2153	662074029	4/17/2024	Zinc-65	-8.19E-01	8.59E-01	2.73E+00	pCi/L	U
2153	667160001	5/14/2024	Zinc-65	-3.18E-01	2.49E+00	8.04E+00	pCi/L	U
2153	670838001	6/11/2024	Zinc-65	-1.30E+00	2.00E+00	6.25E+00	pCi/L	U
2153	674337001	7/10/2024	Zinc-65	-1.43E+00	1.88E+00	5.92E+00	pCi/L	U
2153	679203001	8/6/2024	Zinc-65	-4.27E+00	2.06E+00	5.07E+00	pCi/L	U
2153	683693001	9/2/2024	Zinc-65	-1.14E+00	2.02E+00	5.14E+00	pCi/L	U
2153	692328001	10/31/2024	Zinc-65	1.89E+00	4.17E+00	7.84E+00	pCi/L	U
2153	697368001	11/27/2024	Zinc-65	-1.50E+00	2.09E+00	6.31E+00	pCi/L	U
2153	701912001	12/27/2024	Zinc-65	-4.95E-01	9.32E-01	3.09E+00	pCi/L	U
2153	652269001	1/25/2024	Zirconium-95	-1.28E+00	1.79E+00	5.29E+00	pCi/L	U
2153	655820001	2/21/2024	Zirconium-95	-4.67E-01	1.73E+00	5.50E+00	pCi/L	U
2153	659314001	3/20/2024	Zirconium-95	8.67E-01	2.18E+00	7.24E+00	pCi/L	U
2153	662074029	4/17/2024	Zirconium-95	-7.05E-01	8.73E-01	2.69E+00	pCi/L	U
2153	667160001	5/14/2024	Zirconium-95	7.86E-01	1.88E+00	6.67E+00	pCi/L	U
2153	670838001	6/11/2024	Zirconium-95	5.87E-01	1.38E+00	4.70E+00	pCi/L	U
2153	674337001	7/10/2024	Zirconium-95	-2.52E+00	1.65E+00	4.63E+00	pCi/L	U
2153	679203001	8/6/2024	Zirconium-95	2.24E-01	1.96E+00	6.33E+00	pCi/L	U
2153	683693001	9/2/2024	Zirconium-95	-2.08E+00	2.90E+00	8.79E+00	pCi/L	U
2153	692328001	10/31/2024	Zirconium-95	9.53E-01	3.45E+00	6.32E+00	pCi/L	U
2153	697368001	11/27/2024	Zirconium-95	1.63E+00	1.95E+00	7.03E+00	pCi/L	U
2153	701912001	12/27/2024	Zirconium-95	5.25E-01	1.02E+00	3.37E+00	pCi/L	U
3298	650998001	1/8/2024	Actinium-228	-4.26E+00	4.71E+00	1.37E+01	pCi/L	U
3298	654193001	2/5/2024	Actinium-228	-4.47E+00	5.59E+00	1.65E+01	pCi/L	U
3298	663093001	4/1/2024	Actinium-228	-5.86E+00	4.44E+00	1.23E+01	pCi/L	U
3298	665208001	4/30/2024	Actinium-228	-9.97E+00	6.60E+00	1.73E+01	pCi/L	U
3298	669066001	5/28/2024	Actinium-228	8.68E+00	6.25E+00	2.19E+01	pCi/L	U
3298	672777001	6/24/2024	Actinium-228	-3.29E+00	5.32E+00	1.75E+01	pCi/L	U
3298	676806001	7/22/2024	Actinium-228	1.01E+01	4.96E+00	1.42E+01	pCi/L	U
3298	681493001	8/19/2024	Actinium-228	-2.57E+00	6.84E+00	2.17E+01	pCi/L	U

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Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	685846001	9/16/2024	Actinium-228	1.83E+00	6.11E+00	2.03E+01	pCi/L	U
3298	690097001	10/14/2024	Actinium-228	1.92E+01	4.72E+00	1.11E+01	pCi/L	
3298	694915001	11/12/2024	Actinium-228	9.26E+00	9.03E+00	2.10E+01	pCi/L	U
3298	699437003	12/11/2024	Actinium-228	-1.39E+00	6.64E+00	1.75E+01	pCi/L	U
3298	650998001	1/8/2024	Americium-241	-2.39E-01	5.57E+00	1.73E+01	pCi/L	U
3298	654193001	2/5/2024	Americium-241	8.31E+00	6.82E+00	2.26E+01	pCi/L	U
3298	663093001	4/1/2024	Americium-241	4.53E+00	5.31E+00	1.87E+01	pCi/L	U
3298	665208001	4/30/2024	Americium-241	3.12E+00	1.36E+01	4.16E+01	pCi/L	U
3298	669066001	5/28/2024	Americium-241	-1.80E+00	6.92E+00	2.17E+01	pCi/L	U
3298	672777001	6/24/2024	Americium-241	2.63E-01	3.54E+00	1.10E+01	pCi/L	U
3298	676806001	7/22/2024	Americium-241	1.12E+01	6.25E+00	2.10E+01	pCi/L	U
3298	681493001	8/19/2024	Americium-241	6.88E+00	9.10E+00	3.26E+01	pCi/L	U
3298	685846001	9/16/2024	Americium-241	-4.14E+00	1.14E+01	3.82E+01	pCi/L	U
3298	690097001	10/14/2024	Americium-241	-2.18E+00	1.21E+00	3.81E+00	pCi/L	U
3298	694915001	11/12/2024	Americium-241	-5.36E-01	7.14E+00	2.46E+01	pCi/L	U
3298	699437003	12/11/2024	Americium-241	-1.96E+01	1.47E+01	4.69E+01	pCi/L	U
3298	650998001	1/8/2024	Antimony-124	-4.75E+00	2.30E+00	5.36E+00	pCi/L	U
3298	654193001	2/5/2024	Antimony-124	1.24E+00	2.44E+00	8.63E+00	pCi/L	U
3298	663093001	4/1/2024	Antimony-124	-1.28E+00	2.48E+00	7.84E+00	pCi/L	U
3298	665208001	4/30/2024	Antimony-124	-3.14E-01	3.87E+00	1.25E+01	pCi/L	U
3298	669066001	5/28/2024	Antimony-124	-4.57E+00	2.83E+00	6.47E+00	pCi/L	U
3298	672777001	6/24/2024	Antimony-124	3.43E+00	2.48E+00	9.73E+00	pCi/L	U
3298	676806001	7/22/2024	Antimony-124	1.74E+00	3.02E+00	1.05E+01	pCi/L	U
3298	681493001	8/19/2024	Antimony-124	2.04E+00	2.63E+00	9.89E+00	pCi/L	U
3298	685846001	9/16/2024	Antimony-124	9.05E-01	2.86E+00	9.87E+00	pCi/L	U
3298	690097001	10/14/2024	Antimony-124	-2.46E+00	2.97E+00	7.61E+00	pCi/L	U
3298	694915001	11/12/2024	Antimony-124	-2.55E-01	2.42E+00	7.88E+00	pCi/L	U
3298	699437003	12/11/2024	Antimony-124	-7.34E+00	3.30E+00	6.71E+00	pCi/L	U
3298	650998001	1/8/2024	Antimony-125	-6.67E-01	2.56E+00	8.51E+00	pCi/L	U
3298	654193001	2/5/2024	Antimony-125	-1.89E+00	3.27E+00	1.07E+01	pCi/L	U
3298	663093001	4/1/2024	Antimony-125	-2.31E+00	2.11E+00	6.57E+00	pCi/L	U
3298	665208001	4/30/2024	Antimony-125	3.37E-01	3.36E+00	1.14E+01	pCi/L	U
3298	669066001	5/28/2024	Antimony-125	-2.16E+00	3.24E+00	1.02E+01	pCi/L	U
3298	672777001	6/24/2024	Antimony-125	2.24E+00	2.42E+00	8.54E+00	pCi/L	U
3298	676806001	7/22/2024	Antimony-125	-1.13E+00	3.63E+00	1.01E+01	pCi/L	U
3298	681493001	8/19/2024	Antimony-125	2.75E+00	3.51E+00	1.19E+01	pCi/L	U
3298	685846001	9/16/2024	Antimony-125	5.95E+00	3.77E+00	1.31E+01	pCi/L	U
3298	690097001	10/14/2024	Antimony-125	-1.74E+00	2.28E+00	7.13E+00	pCi/L	U
3298	694915001	11/12/2024	Antimony-125	-1.56E+00	3.08E+00	9.90E+00	pCi/L	U
3298	699437003	12/11/2024	Antimony-125	5.12E+00	3.85E+00	1.34E+01	pCi/L	U
3298	650998001	1/8/2024	Barium-140	1.03E+01	5.23E+00	1.95E+01	pCi/L	U
3298	654193001	2/5/2024	Barium-140	6.01E+00	5.49E+00	1.97E+01	pCi/L	U
3298	663093001	4/1/2024	Barium-140	9.39E+00	6.31E+00	2.26E+01	pCi/L	U
3298	665208001	4/30/2024	Barium-140	2.17E+01	7.09E+00	2.90E+01	pCi/L	U
3298	669066001	5/28/2024	Barium-140	-1.10E-01	5.31E+00	1.73E+01	pCi/L	U
3298	672777001	6/24/2024	Barium-140	-1.82E+00	6.95E+00	2.21E+01	pCi/L	U

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Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	676806001	7/22/2024	Barium-140	-2.17E+00	5.62E+00	1.73E+01	pCi/L	U
3298	681493001	8/19/2024	Barium-140	3.92E+00	7.07E+00	2.47E+01	pCi/L	U
3298	685846001	9/16/2024	Barium-140	-4.43E+00	7.67E+00	2.44E+01	pCi/L	U
3298	690097001	10/14/2024	Barium-140	-1.26E+01	9.00E+00	2.32E+01	pCi/L	U
3298	694915001	11/12/2024	Barium-140	5.45E+00	6.43E+00	2.22E+01	pCi/L	U
3298	699437003	12/11/2024	Barium-140	4.62E+00	6.57E+00	2.32E+01	pCi/L	U
3298	650998001	1/8/2024	Beryllium-7	1.52E+01	8.81E+00	3.21E+01	pCi/L	U
3298	654193001	2/5/2024	Beryllium-7	1.10E+01	1.07E+01	3.81E+01	pCi/L	U
3298	663093001	4/1/2024	Beryllium-7	1.30E+01	7.52E+00	2.73E+01	pCi/L	U
3298	665208001	4/30/2024	Beryllium-7	1.02E+01	9.80E+00	3.56E+01	pCi/L	U
3298	669066001	5/28/2024	Beryllium-7	3.49E+00	7.55E+00	2.62E+01	pCi/L	U
3298	672777001	6/24/2024	Beryllium-7	1.82E+01	9.97E+00	3.65E+01	pCi/L	U
3298	676806001	7/22/2024	Beryllium-7	-1.69E+01	8.67E+00	2.26E+01	pCi/L	U
3298	681493001	8/19/2024	Beryllium-7	3.70E+00	1.09E+01	3.78E+01	pCi/L	U
3298	685846001	9/16/2024	Beryllium-7	-1.05E+01	1.04E+01	3.20E+01	pCi/L	U
3298	690097001	10/14/2024	Beryllium-7	-1.58E-01	8.47E+00	2.71E+01	pCi/L	U
3298	694915001	11/12/2024	Beryllium-7	7.93E-01	1.05E+01	3.46E+01	pCi/L	U
3298	699437003	12/11/2024	Beryllium-7	-1.02E+01	1.25E+01	3.80E+01	pCi/L	U
3298	650998001	1/8/2024	BETA	2.26E+00	9.50E-01	2.59E+00	pCi/L	U
3298	654193001	2/5/2024	BETA	1.74E+00	9.32E-01	2.65E+00	pCi/L	U
3298	663093001	4/1/2024	BETA	4.07E-01	6.86E-01	2.12E+00	pCi/L	U
3298	665208001	4/30/2024	BETA	1.56E+00	9.04E-01	2.62E+00	pCi/L	U
3298	669066001	5/28/2024	BETA	2.11E+00	9.40E-01	2.62E+00	pCi/L	U
3298	672777001	6/24/2024	BETA	5.92E-01	8.00E-01	2.45E+00	pCi/L	U
3298	676806001	7/22/2024	BETA	1.43E+00	9.11E-01	2.66E+00	pCi/L	U
3298	681493001	8/19/2024	BETA	2.29E+00	9.14E-01	2.50E+00	pCi/L	U
3298	685846001	9/16/2024	BETA	2.08E+00	9.22E-01	2.55E+00	pCi/L	U
3298	690097001	10/14/2024	BETA	1.62E+00	8.77E-01	2.46E+00	pCi/L	U
3298	694915001	11/12/2024	BETA	4.52E-02	8.04E-01	2.61E+00	pCi/L	U
3298	699437003	12/11/2024	BETA	1.98E+00	8.07E-01	2.06E+00	pCi/L	U
3298	650998001	1/8/2024	Bismuth-214	6.25E+00	3.92E+00	8.38E+00	pCi/L	U
3298	654193001	2/5/2024	Bismuth-214	3.31E+00	3.59E+00	9.54E+00	pCi/L	U
3298	663093001	4/1/2024	Bismuth-214	4.91E-01	2.41E+00	6.86E+00	pCi/L	U
3298	665208001	4/30/2024	Bismuth-214	6.76E+00	4.72E+00	8.25E+00	pCi/L	U
3298	669066001	5/28/2024	Bismuth-214	-2.17E+00	3.15E+00	9.78E+00	pCi/L	U
3298	672777001	6/24/2024	Bismuth-214	5.74E+00	3.19E+00	9.32E+00	pCi/L	U
3298	676806001	7/22/2024	Bismuth-214	-5.65E+00	2.82E+00	7.31E+00	pCi/L	U
3298	681493001	8/19/2024	Bismuth-214	5.89E+00	3.47E+00	1.20E+01	pCi/L	U
3298	685846001	9/16/2024	Bismuth-214	2.58E+00	3.33E+00	1.13E+01	pCi/L	U
3298	690097001	10/14/2024	Bismuth-214	1.98E+00	4.40E+00	5.08E+00	pCi/L	U
3298	694915001	11/12/2024	Bismuth-214	-5.70E+00	3.63E+00	1.13E+01	pCi/L	U
3298	699437003	12/11/2024	Bismuth-214	1.01E+01	5.37E+00	1.19E+01	pCi/L	U
3298	650998001	1/8/2024	Cerium-141	-2.95E+00	2.19E+00	5.67E+00	pCi/L	U
3298	654193001	2/5/2024	Cerium-141	-2.75E+00	1.86E+00	5.56E+00	pCi/L	U
3298	663093001	4/1/2024	Cerium-141	-2.07E-01	1.87E+00	5.31E+00	pCi/L	U
3298	665208001	4/30/2024	Cerium-141	9.42E-01	2.50E+00	7.68E+00	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	669066001	5/28/2024	Cerium-141	7.53E+00	3.48E+00	5.22E+00	pCi/L	UI
3298	672777001	6/24/2024	Cerium-141	4.55E+00	3.26E+00	5.38E+00	pCi/L	U
3298	676806001	7/22/2024	Cerium-141	2.58E+00	1.95E+00	6.87E+00	pCi/L	U
3298	681493001	8/19/2024	Cerium-141	-4.49E-01	2.33E+00	6.61E+00	pCi/L	U
3298	685846001	9/16/2024	Cerium-141	-4.34E+00	2.44E+00	7.27E+00	pCi/L	U
3298	690097001	10/14/2024	Cerium-141	-3.30E+00	2.06E+00	4.46E+00	pCi/L	U
3298	694915001	11/12/2024	Cerium-141	-3.44E+00	2.60E+00	7.29E+00	pCi/L	U
3298	699437003	12/11/2024	Cerium-141	6.92E+00	2.58E+00	8.85E+00	pCi/L	U
3298	650998001	1/8/2024	Cerium-144	-7.94E+00	6.16E+00	1.90E+01	pCi/L	U
3298	654193001	2/5/2024	Cerium-144	6.36E+00	7.93E+00	2.67E+01	pCi/L	U
3298	663093001	4/1/2024	Cerium-144	-6.69E+00	5.64E+00	1.77E+01	pCi/L	U
3298	665208001	4/30/2024	Cerium-144	1.77E+01	8.59E+00	3.07E+01	pCi/L	U
3298	669066001	5/28/2024	Cerium-144	3.96E+00	7.60E+00	2.55E+01	pCi/L	U
3298	672777001	6/24/2024	Cerium-144	2.59E+00	6.73E+00	2.20E+01	pCi/L	U
3298	676806001	7/22/2024	Cerium-144	6.27E+00	7.45E+00	2.58E+01	pCi/L	U
3298	681493001	8/19/2024	Cerium-144	1.29E+00	7.77E+00	2.52E+01	pCi/L	U
3298	685846001	9/16/2024	Cerium-144	3.64E+01	1.46E+01	2.62E+01	pCi/L	UI
3298	690097001	10/14/2024	Cerium-144	-3.17E+00	4.57E+00	1.41E+01	pCi/L	U
3298	694915001	11/12/2024	Cerium-144	7.99E+00	8.12E+00	2.78E+01	pCi/L	U
3298	699437003	12/11/2024	Cerium-144	8.47E+00	9.86E+00	3.14E+01	pCi/L	U
3298	650998001	1/8/2024	Cesium-134	1.05E+00	1.06E+00	3.68E+00	pCi/L	U
3298	654193001	2/5/2024	Cesium-134	-6.80E-02	1.25E+00	4.04E+00	pCi/L	U
3298	663093001	4/1/2024	Cesium-134	-1.30E+00	1.03E+00	3.21E+00	pCi/L	U
3298	665208001	4/30/2024	Cesium-134	-7.25E-01	1.55E+00	4.15E+00	pCi/L	U
3298	669066001	5/28/2024	Cesium-134	-1.11E+00	1.37E+00	4.29E+00	pCi/L	U
3298	672777001	6/24/2024	Cesium-134	-4.64E-01	8.93E-01	2.86E+00	pCi/L	U
3298	676806001	7/22/2024	Cesium-134	-1.63E+00	1.13E+00	3.30E+00	pCi/L	U
3298	681493001	8/19/2024	Cesium-134	8.10E-01	1.79E+00	5.33E+00	pCi/L	U
3298	685846001	9/16/2024	Cesium-134	2.49E-01	1.28E+00	4.23E+00	pCi/L	U
3298	690097001	10/14/2024	Cesium-134	3.00E-01	9.79E-01	3.28E+00	pCi/L	U
3298	694915001	11/12/2024	Cesium-134	4.61E-01	1.08E+00	3.81E+00	pCi/L	U
3298	699437003	12/11/2024	Cesium-134	4.74E-01	1.47E+00	5.01E+00	pCi/L	U
3298	650998001	1/8/2024	Cesium-137	1.71E-01	9.46E-01	3.14E+00	pCi/L	U
3298	654193001	2/5/2024	Cesium-137	1.02E+00	1.36E+00	3.56E+00	pCi/L	U
3298	663093001	4/1/2024	Cesium-137	1.41E+00	8.93E-01	3.18E+00	pCi/L	U
3298	665208001	4/30/2024	Cesium-137	7.91E-01	1.26E+00	4.37E+00	pCi/L	U
3298	669066001	5/28/2024	Cesium-137	-5.14E-02	9.58E-01	3.05E+00	pCi/L	U
3298	672777001	6/24/2024	Cesium-137	1.27E+00	1.23E+00	4.25E+00	pCi/L	U
3298	676806001	7/22/2024	Cesium-137	1.37E+00	1.83E+00	3.56E+00	pCi/L	U
3298	681493001	8/19/2024	Cesium-137	-4.66E-01	1.55E+00	4.92E+00	pCi/L	U
3298	685846001	9/16/2024	Cesium-137	-1.08E-01	1.64E+00	4.77E+00	pCi/L	U
3298	690097001	10/14/2024	Cesium-137	4.64E-01	1.64E+00	2.76E+00	pCi/L	U
3298	694915001	11/12/2024	Cesium-137	2.13E+00	1.03E+00	3.96E+00	pCi/L	U
3298	699437003	12/11/2024	Cesium-137	9.57E-01	1.26E+00	4.45E+00	pCi/L	U
3298	650998001	1/8/2024	Chromium-51	-5.83E+00	9.47E+00	3.17E+01	pCi/L	U
3298	654193001	2/5/2024	Chromium-51	-8.99E+00	1.10E+01	3.64E+01	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	663093001	4/1/2024	Chromium-51	6.43E+00	9.15E+00	3.21E+01	pCi/L	U
3298	665208001	4/30/2024	Chromium-51	2.89E+00	1.26E+01	4.38E+01	pCi/L	U
3298	669066001	5/28/2024	Chromium-51	4.30E+00	1.21E+01	4.20E+01	pCi/L	U
3298	672777001	6/24/2024	Chromium-51	-1.55E+01	8.75E+00	2.59E+01	pCi/L	U
3298	676806001	7/22/2024	Chromium-51	-9.63E-01	9.63E+00	3.12E+01	pCi/L	U
3298	681493001	8/19/2024	Chromium-51	-2.58E+00	1.29E+01	4.19E+01	pCi/L	U
3298	685846001	9/16/2024	Chromium-51	-1.15E+00	1.19E+01	3.66E+01	pCi/L	U
3298	690097001	10/14/2024	Chromium-51	-1.03E+01	8.59E+00	2.72E+01	pCi/L	U
3298	694915001	11/12/2024	Chromium-51	-6.36E+00	1.09E+01	3.60E+01	pCi/L	U
3298	699437003	12/11/2024	Chromium-51	-2.15E+00	1.23E+01	3.96E+01	pCi/L	U
3298	650998001	1/8/2024	Cobalt-57	-2.53E-01	7.99E-01	2.58E+00	pCi/L	U
3298	654193001	2/5/2024	Cobalt-57	8.90E-01	1.01E+00	3.41E+00	pCi/L	U
3298	663093001	4/1/2024	Cobalt-57	-2.80E-01	6.49E-01	2.10E+00	pCi/L	U
3298	665208001	4/30/2024	Cobalt-57	5.90E-01	1.26E+00	4.22E+00	pCi/L	U
3298	669066001	5/28/2024	Cobalt-57	-7.31E-01	9.95E-01	3.16E+00	pCi/L	U
3298	672777001	6/24/2024	Cobalt-57	-1.33E+00	8.20E-01	2.43E+00	pCi/L	U
3298	676806001	7/22/2024	Cobalt-57	3.73E-01	9.89E-01	3.37E+00	pCi/L	U
3298	681493001	8/19/2024	Cobalt-57	-6.94E-02	1.04E+00	3.36E+00	pCi/L	U
3298	685846001	9/16/2024	Cobalt-57	1.05E+00	1.16E+00	4.01E+00	pCi/L	U
3298	690097001	10/14/2024	Cobalt-57	-6.81E-02	5.63E-01	1.77E+00	pCi/L	U
3298	694915001	11/12/2024	Cobalt-57	-1.89E+00	1.10E+00	3.40E+00	pCi/L	U
3298	699437003	12/11/2024	Cobalt-57	-5.65E-01	1.25E+00	4.06E+00	pCi/L	U
3298	650998001	1/8/2024	Cobalt-58	1.01E+00	9.99E-01	3.48E+00	pCi/L	U
3298	654193001	2/5/2024	Cobalt-58	1.56E+00	1.12E+00	3.85E+00	pCi/L	U
3298	663093001	4/1/2024	Cobalt-58	2.06E+00	8.71E-01	3.20E+00	pCi/L	U
3298	665208001	4/30/2024	Cobalt-58	1.44E+00	1.37E+00	4.54E+00	pCi/L	U
3298	669066001	5/28/2024	Cobalt-58	-3.68E-01	1.44E+00	4.78E+00	pCi/L	U
3298	672777001	6/24/2024	Cobalt-58	-1.18E+00	1.13E+00	3.49E+00	pCi/L	U
3298	676806001	7/22/2024	Cobalt-58	1.21E+00	9.84E-01	3.68E+00	pCi/L	U
3298	681493001	8/19/2024	Cobalt-58	-8.67E-02	1.25E+00	4.18E+00	pCi/L	U
3298	685846001	9/16/2024	Cobalt-58	3.03E+00	1.80E+00	2.87E+00	pCi/L	UI
3298	690097001	10/14/2024	Cobalt-58	-1.14E+00	1.06E+00	2.82E+00	pCi/L	U
3298	694915001	11/12/2024	Cobalt-58	-1.54E-01	1.28E+00	4.27E+00	pCi/L	U
3298	699437003	12/11/2024	Cobalt-58	1.94E+00	1.27E+00	4.39E+00	pCi/L	U
3298	650998001	1/8/2024	Cobalt-60	-1.26E+00	8.51E-01	2.35E+00	pCi/L	U
3298	654193001	2/5/2024	Cobalt-60	-4.05E-01	9.84E-01	3.10E+00	pCi/L	U
3298	663093001	4/1/2024	Cobalt-60	3.88E-02	1.05E+00	2.97E+00	pCi/L	U
3298	665208001	4/30/2024	Cobalt-60	-3.06E+00	1.84E+00	5.47E+00	pCi/L	U
3298	669066001	5/28/2024	Cobalt-60	2.44E-01	1.13E+00	3.77E+00	pCi/L	U
3298	672777001	6/24/2024	Cobalt-60	1.95E+00	1.09E+00	4.24E+00	pCi/L	U
3298	676806001	7/22/2024	Cobalt-60	1.21E+00	1.29E+00	4.65E+00	pCi/L	U
3298	681493001	8/19/2024	Cobalt-60	6.21E-01	1.15E+00	4.17E+00	pCi/L	U
3298	685846001	9/16/2024	Cobalt-60	6.55E-02	1.20E+00	4.03E+00	pCi/L	U
3298	690097001	10/14/2024	Cobalt-60	7.16E-01	8.90E-01	3.13E+00	pCi/L	U
3298	694915001	11/12/2024	Cobalt-60	-1.88E+00	1.63E+00	4.60E+00	pCi/L	U
3298	699437003	12/11/2024	Cobalt-60	1.96E-01	1.57E+00	5.21E+00	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	650998001	1/8/2024	Iodine-131	-1.43E+00	2.22E+00	7.32E+00	pCi/L	U
3298	650998001	1/8/2024	Iodine-131	-3.44E-02	2.65E-01	8.77E-01	pCi/L	U
3298	654193001	2/5/2024	Iodine-131	1.85E+00	2.14E+00	7.60E+00	pCi/L	U
3298	654193001	2/5/2024	Iodine-131	2.20E-01	2.36E-01	7.17E-01	pCi/L	U
3298	663093001	4/1/2024	Iodine-131	-4.90E+00	3.29E+00	8.96E+00	pCi/L	U
3298	663093001	4/1/2024	Iodine-131	2.04E-01	2.67E-01	8.60E-01	pCi/L	U
3298	665208001	4/30/2024	Iodine-131	-5.79E-02	2.47E-01	8.19E-01	pCi/L	U
3298	669066001	5/28/2024	Iodine-131	9.73E-01	1.97E+00	6.89E+00	pCi/L	U
3298	669066001	5/28/2024	Iodine-131	4.31E-01	2.04E-01	6.29E-01	pCi/L	U
3298	672777001	6/24/2024	Iodine-131	6.31E-01	2.82E-01	8.40E-01	pCi/L	U
3298	676806001	7/22/2024	Iodine-131	-8.01E-02	2.11E-01	7.16E-01	pCi/L	U
3298	676806001	7/22/2024	Iodine-131	5.31E-01	2.02E+00	6.67E+00	pCi/L	U
3298	681493001	8/19/2024	Iodine-131	-5.94E+00	3.19E+00	8.98E+00	pCi/L	U
3298	681493001	8/19/2024	Iodine-131	-4.37E-01	6.08E-01	2.02E+00	pCi/L	U
3298	685846001	9/16/2024	Iodine-131	-9.07E-01	2.84E+00	8.92E+00	pCi/L	U
3298	685846001	9/16/2024	Iodine-131	-2.83E-01	2.05E-01	7.37E-01	pCi/L	U
3298	690097001	10/14/2024	Iodine-131	-4.03E-01	2.53E-01	8.57E-01	pCi/L	U
3298	690097001	10/14/2024	Iodine-131	-7.84E-01	2.94E+00	9.49E+00	pCi/L	U
3298	694915001	11/12/2024	Iodine-131	3.43E-01	2.72E-01	8.22E-01	pCi/L	U
3298	699437003	12/11/2024	Iodine-131	-3.11E-01	6.11E-01	2.03E+00	pCi/L	U
3298	650998001	1/8/2024	Iron-59	-7.97E-01	2.10E+00	6.93E+00	pCi/L	U
3298	654193001	2/5/2024	Iron-59	-8.15E-01	2.01E+00	6.52E+00	pCi/L	U
3298	663093001	4/1/2024	Iron-59	-1.04E+00	2.00E+00	6.26E+00	pCi/L	U
3298	665208001	4/30/2024	Iron-59	-8.88E-01	2.41E+00	7.78E+00	pCi/L	U
3298	669066001	5/28/2024	Iron-59	3.72E+00	3.68E+00	1.12E+01	pCi/L	U
3298	672777001	6/24/2024	Iron-59	4.03E+00	1.63E+00	7.15E+00	pCi/L	U
3298	676806001	7/22/2024	Iron-59	1.27E+00	2.10E+00	6.73E+00	pCi/L	U
3298	681493001	8/19/2024	Iron-59	7.95E-01	2.48E+00	8.48E+00	pCi/L	U
3298	685846001	9/16/2024	Iron-59	1.59E+00	3.21E+00	1.14E+01	pCi/L	U
3298	690097001	10/14/2024	Iron-59	-3.96E-01	2.01E+00	6.38E+00	pCi/L	U
3298	694915001	11/12/2024	Iron-59	1.09E+00	2.42E+00	8.30E+00	pCi/L	U
3298	699437003	12/11/2024	Iron-59	-1.10E+00	2.47E+00	7.76E+00	pCi/L	U
3298	650998001	1/8/2024	Lanthanum-140	-3.78E+00	1.62E+00	3.36E+00	pCi/L	U
3298	654193001	2/5/2024	Lanthanum-140	5.03E-01	1.68E+00	5.78E+00	pCi/L	U
3298	663093001	4/1/2024	Lanthanum-140	2.40E+00	2.27E+00	8.39E+00	pCi/L	U
3298	665208001	4/30/2024	Lanthanum-140	-3.35E+00	2.41E+00	5.86E+00	pCi/L	U
3298	669066001	5/28/2024	Lanthanum-140	8.66E-01	1.96E+00	7.01E+00	pCi/L	U
3298	672777001	6/24/2024	Lanthanum-140	-4.59E-01	2.51E+00	8.30E+00	pCi/L	U
3298	676806001	7/22/2024	Lanthanum-140	9.44E-01	1.52E+00	5.45E+00	pCi/L	U
3298	681493001	8/19/2024	Lanthanum-140	3.25E+00	3.46E+00	1.25E+01	pCi/L	U
3298	685846001	9/16/2024	Lanthanum-140	-3.96E+00	2.78E+00	7.05E+00	pCi/L	U
3298	690097001	10/14/2024	Lanthanum-140	-2.24E+00	2.37E+00	7.18E+00	pCi/L	U
3298	694915001	11/12/2024	Lanthanum-140	-3.68E+00	2.50E+00	6.95E+00	pCi/L	U
3298	699437003	12/11/2024	Lanthanum-140	-1.98E+00	2.15E+00	6.00E+00	pCi/L	U
3298	650998001	1/8/2024	Lead-210	-1.21E+01	1.40E+02	4.71E+02	pCi/L	U
3298	654193001	2/5/2024	Lead-210	-1.36E+02	1.71E+02	4.84E+02	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	663093001	4/1/2024	Lead-210	1.77E+02	1.57E+02	5.63E+02	pCi/L	U
3298	665208001	4/30/2024	Lead-210	6.75E+02	5.38E+02	1.95E+03	pCi/L	U
3298	669066001	5/28/2024	Lead-210	-3.01E+02	2.42E+02	7.39E+02	pCi/L	U
3298	672777001	6/24/2024	Lead-210	-5.92E+01	6.47E+01	1.98E+02	pCi/L	U
3298	676806001	7/22/2024	Lead-210	1.03E+02	1.65E+02	4.43E+02	pCi/L	U
3298	681493001	8/19/2024	Lead-210	5.03E+02	6.47E+02	1.35E+03	pCi/L	U
3298	685846001	9/16/2024	Lead-210	-8.95E+01	6.16E+02	1.89E+03	pCi/L	U
3298	690097001	10/14/2024	Lead-210	2.45E+00	2.13E+01	2.72E+01	pCi/L	U
3298	694915001	11/12/2024	Lead-210	1.19E+02	1.81E+02	6.49E+02	pCi/L	U
3298	699437003	12/11/2024	Lead-210	-1.47E+02	6.27E+02	2.09E+03	pCi/L	U
3298	650998001	1/8/2024	Lead-212	2.30E+00	3.52E+00	5.16E+00	pCi/L	U
3298	654193001	2/5/2024	Lead-212	2.88E+00	2.62E+00	8.02E+00	pCi/L	U
3298	663093001	4/1/2024	Lead-212	1.44E-02	2.51E+00	5.82E+00	pCi/L	U
3298	665208001	4/30/2024	Lead-212	8.71E-01	4.03E+00	1.07E+01	pCi/L	U
3298	669066001	5/28/2024	Lead-212	6.78E+00	4.44E+00	9.18E+00	pCi/L	U
3298	672777001	6/24/2024	Lead-212	-2.79E+00	2.23E+00	7.19E+00	pCi/L	U
3298	676806001	7/22/2024	Lead-212	7.00E+00	4.69E+00	9.35E+00	pCi/L	U
3298	681493001	8/19/2024	Lead-212	1.08E+00	3.80E+00	9.12E+00	pCi/L	U
3298	685846001	9/16/2024	Lead-212	-4.54E+00	2.91E+00	8.48E+00	pCi/L	U
3298	690097001	10/14/2024	Lead-212	2.09E+00	2.34E+00	4.04E+00	pCi/L	U
3298	694915001	11/12/2024	Lead-212	3.70E+00	2.99E+00	8.63E+00	pCi/L	U
3298	699437003	12/11/2024	Lead-212	2.23E+00	5.05E+00	9.00E+00	pCi/L	U
3298	650998001	1/8/2024	Lead-214	9.01E+00	3.62E+00	7.88E+00	pCi/L	UI
3298	654193001	2/5/2024	Lead-214	3.43E+00	5.08E+00	1.03E+01	pCi/L	U
3298	663093001	4/1/2024	Lead-214	2.39E+00	3.16E+00	7.01E+00	pCi/L	U
3298	665208001	4/30/2024	Lead-214	6.27E+00	5.47E+00	1.20E+01	pCi/L	U
3298	669066001	5/28/2024	Lead-214	-2.30E-01	2.85E+00	8.90E+00	pCi/L	U
3298	672777001	6/24/2024	Lead-214	2.45E+00	4.17E+00	8.62E+00	pCi/L	U
3298	676806001	7/22/2024	Lead-214	8.16E-01	2.81E+00	8.73E+00	pCi/L	U
3298	681493001	8/19/2024	Lead-214	-6.52E+00	3.55E+00	9.95E+00	pCi/L	U
3298	685846001	9/16/2024	Lead-214	1.28E+00	4.71E+00	1.16E+01	pCi/L	U
3298	690097001	10/14/2024	Lead-214	-6.08E+00	2.68E+00	5.45E+00	pCi/L	U
3298	694915001	11/12/2024	Lead-214	2.99E+00	3.99E+00	1.02E+01	pCi/L	U
3298	699437003	12/11/2024	Lead-214	4.75E+00	5.77E+00	1.26E+01	pCi/L	U
3298	650998001	1/8/2024	Manganese-54	-1.73E-01	8.32E-01	2.63E+00	pCi/L	U
3298	654193001	2/5/2024	Manganese-54	-1.32E-01	1.32E+00	4.22E+00	pCi/L	U
3298	663093001	4/1/2024	Manganese-54	-4.74E-01	8.43E-01	2.73E+00	pCi/L	U
3298	665208001	4/30/2024	Manganese-54	-1.53E-01	1.30E+00	4.12E+00	pCi/L	U
3298	669066001	5/28/2024	Manganese-54	-2.77E-01	1.19E+00	3.94E+00	pCi/L	U
3298	672777001	6/24/2024	Manganese-54	3.97E-01	9.62E-01	3.35E+00	pCi/L	U
3298	676806001	7/22/2024	Manganese-54	3.66E-01	9.70E-01	3.37E+00	pCi/L	U
3298	681493001	8/19/2024	Manganese-54	1.15E+00	1.41E+00	5.08E+00	pCi/L	U
3298	685846001	9/16/2024	Manganese-54	-1.13E-02	1.33E+00	4.28E+00	pCi/L	U
3298	690097001	10/14/2024	Manganese-54	7.30E-02	8.88E-01	2.93E+00	pCi/L	U
3298	694915001	11/12/2024	Manganese-54	6.46E-01	1.08E+00	3.81E+00	pCi/L	U
3298	699437003	12/11/2024	Manganese-54	1.23E+00	1.32E+00	4.23E+00	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	650998001	1/8/2024	Molybdenum-99	-1.26E+02	1.16E+02	3.46E+02	pCi/L	U
3298	654193001	2/5/2024	Molybdenum-99	8.59E+01	4.37E+01	1.69E+02	pCi/L	U
3298	663093001	4/1/2024	Molybdenum-99	4.92E+02	4.81E+02	1.09E+03	pCi/L	U
3298	665208001	4/30/2024	Molybdenum-99	-1.40E+02	1.33E+02	3.88E+02	pCi/L	U
3298	669066001	5/28/2024	Molybdenum-99	1.00E+02	5.93E+01	2.29E+02	pCi/L	U
3298	672777001	6/24/2024	Molybdenum-99	-2.31E+02	1.53E+02	4.46E+02	pCi/L	U
3298	676806001	7/22/2024	Molybdenum-99	-1.27E+01	6.04E+01	2.00E+02	pCi/L	U
3298	681493001	8/19/2024	Molybdenum-99	9.42E+00	1.13E+02	3.68E+02	pCi/L	U
3298	685846001	9/16/2024	Molybdenum-99	8.98E+01	8.62E+01	3.13E+02	pCi/L	U
3298	690097001	10/14/2024	Molybdenum-99	8.20E+02	4.17E+02	1.39E+03	pCi/L	U
3298	694915001	11/12/2024	Molybdenum-99	-4.62E+01	7.66E+01	2.50E+02	pCi/L	U
3298	699437003	12/11/2024	Molybdenum-99	-1.32E+01	7.65E+01	2.53E+02	pCi/L	U
3298	650998001	1/8/2024	Niobium-95	1.17E+00	9.67E-01	3.42E+00	pCi/L	U
3298	654193001	2/5/2024	Niobium-95	1.42E+00	1.08E+00	3.94E+00	pCi/L	U
3298	663093001	4/1/2024	Niobium-95	7.59E-01	1.03E+00	3.64E+00	pCi/L	U
3298	665208001	4/30/2024	Niobium-95	9.16E-01	1.23E+00	4.30E+00	pCi/L	U
3298	669066001	5/28/2024	Niobium-95	-3.08E-01	1.16E+00	3.85E+00	pCi/L	U
3298	672777001	6/24/2024	Niobium-95	2.08E-01	1.11E+00	3.57E+00	pCi/L	U
3298	676806001	7/22/2024	Niobium-95	1.02E+00	1.09E+00	3.94E+00	pCi/L	U
3298	681493001	8/19/2024	Niobium-95	1.14E+00	1.45E+00	5.01E+00	pCi/L	U
3298	685846001	9/16/2024	Niobium-95	-1.32E-01	1.24E+00	3.98E+00	pCi/L	U
3298	690097001	10/14/2024	Niobium-95	4.07E-01	1.03E+00	3.47E+00	pCi/L	U
3298	694915001	11/12/2024	Niobium-95	-6.70E-01	1.44E+00	4.72E+00	pCi/L	U
3298	699437003	12/11/2024	Niobium-95	1.07E+00	1.36E+00	4.31E+00	pCi/L	U
3298	650998001	1/8/2024	Potassium-40	3.98E+01	1.51E+01	3.09E+01	pCi/L	UI
3298	654193001	2/5/2024	Potassium-40	-2.24E+01	1.44E+01	4.45E+01	pCi/L	U
3298	663093001	4/1/2024	Potassium-40	4.97E+00	1.47E+01	4.64E+01	pCi/L	U
3298	665208001	4/30/2024	Potassium-40	-2.98E+01	1.81E+01	5.62E+01	pCi/L	U
3298	669066001	5/28/2024	Potassium-40	-6.43E+00	1.76E+01	5.74E+01	pCi/L	U
3298	672777001	6/24/2024	Potassium-40	-2.40E+01	1.41E+01	4.53E+01	pCi/L	U
3298	676806001	7/22/2024	Potassium-40	-5.16E+00	1.44E+01	5.14E+01	pCi/L	U
3298	681493001	8/19/2024	Potassium-40	1.23E+01	1.49E+01	5.43E+01	pCi/L	U
3298	685846001	9/16/2024	Potassium-40	2.91E+01	1.89E+01	7.68E+01	pCi/L	U
3298	690097001	10/14/2024	Potassium-40	4.24E+00	2.06E+01	2.81E+01	pCi/L	U
3298	694915001	11/12/2024	Potassium-40	2.24E+01	2.27E+01	1.69E+01	pCi/L	UI
3298	699437003	12/11/2024	Potassium-40	-1.33E+01	1.74E+01	6.05E+01	pCi/L	U
3298	650998001	1/8/2024	Radium-226	-1.53E+01	2.68E+01	7.83E+01	pCi/L	U
3298	654193001	2/5/2024	Radium-226	-2.59E+01	3.10E+01	9.60E+01	pCi/L	U
3298	663093001	4/1/2024	Radium-226	1.15E+01	3.88E+01	5.09E+01	pCi/L	U
3298	665208001	4/30/2024	Radium-226	3.81E+01	5.54E+01	8.72E+01	pCi/L	U
3298	669066001	5/28/2024	Radium-226	9.82E+00	5.11E+01	7.20E+01	pCi/L	U
3298	672777001	6/24/2024	Radium-226	2.23E+01	4.94E+01	9.34E+01	pCi/L	U
3298	676806001	7/22/2024	Radium-226	5.29E+01	4.60E+01	7.19E+01	pCi/L	U
3298	681493001	8/19/2024	Radium-226	9.60E+01	5.83E+01	7.73E+01	pCi/L	UI
3298	685846001	9/16/2024	Radium-226	6.44E+00	4.46E+01	8.87E+01	pCi/L	U
3298	690097001	10/14/2024	Radium-226	8.22E+00	3.24E+01	4.66E+01	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	694915001	11/12/2024	Radium-226	9.28E+01	4.45E+01	1.22E+02	pCi/L	U
3298	699437003	12/11/2024	Radium-226	-2.48E+01	4.39E+01	1.44E+02	pCi/L	U
3298	650998001	1/8/2024	Radium-228	-4.26E+00	4.71E+00	1.37E+01	pCi/L	U
3298	654193001	2/5/2024	Radium-228	-4.47E+00	5.59E+00	1.65E+01	pCi/L	U
3298	663093001	4/1/2024	Radium-228	-5.86E+00	4.44E+00	1.23E+01	pCi/L	U
3298	665208001	4/30/2024	Radium-228	-9.97E+00	6.60E+00	1.73E+01	pCi/L	U
3298	669066001	5/28/2024	Radium-228	8.68E+00	6.25E+00	2.19E+01	pCi/L	U
3298	672777001	6/24/2024	Radium-228	-3.29E+00	5.32E+00	1.75E+01	pCi/L	U
3298	676806001	7/22/2024	Radium-228	1.01E+01	4.96E+00	1.42E+01	pCi/L	U
3298	681493001	8/19/2024	Radium-228	-2.57E+00	6.84E+00	2.17E+01	pCi/L	U
3298	685846001	9/16/2024	Radium-228	1.83E+00	6.11E+00	2.03E+01	pCi/L	U
3298	690097001	10/14/2024	Radium-228	1.92E+01	4.72E+00	1.11E+01	pCi/L	
3298	694915001	11/12/2024	Radium-228	9.26E+00	9.03E+00	2.10E+01	pCi/L	U
3298	699437003	12/11/2024	Radium-228	-1.39E+00	6.64E+00	1.75E+01	pCi/L	U
3298	650998001	1/8/2024	Ruthenium-103	-8.71E-01	1.15E+00	3.71E+00	pCi/L	U
3298	654193001	2/5/2024	Ruthenium-103	-1.60E+00	1.20E+00	3.65E+00	pCi/L	U
3298	663093001	4/1/2024	Ruthenium-103	-2.13E+00	9.92E-01	2.81E+00	pCi/L	U
3298	665208001	4/30/2024	Ruthenium-103	7.45E-01	1.50E+00	5.17E+00	pCi/L	U
3298	669066001	5/28/2024	Ruthenium-103	-4.32E-01	1.32E+00	4.22E+00	pCi/L	U
3298	672777001	6/24/2024	Ruthenium-103	-3.97E+00	1.36E+00	3.55E+00	pCi/L	U
3298	676806001	7/22/2024	Ruthenium-103	1.13E+00	1.29E+00	3.99E+00	pCi/L	U
3298	681493001	8/19/2024	Ruthenium-103	-4.92E-01	1.38E+00	4.52E+00	pCi/L	U
3298	685846001	9/16/2024	Ruthenium-103	-1.45E+00	1.28E+00	3.86E+00	pCi/L	U
3298	690097001	10/14/2024	Ruthenium-103	4.12E+00	1.95E+00	3.16E+00	pCi/L	UI
3298	694915001	11/12/2024	Ruthenium-103	4.29E-01	1.25E+00	3.81E+00	pCi/L	U
3298	699437003	12/11/2024	Ruthenium-103	-4.33E-01	1.46E+00	4.58E+00	pCi/L	U
3298	650998001	1/8/2024	Ruthenium-106	-6.12E+00	7.57E+00	2.35E+01	pCi/L	U
3298	654193001	2/5/2024	Ruthenium-106	-1.69E+01	1.03E+01	3.03E+01	pCi/L	U
3298	663093001	4/1/2024	Ruthenium-106	2.46E+00	8.12E+00	2.67E+01	pCi/L	U
3298	665208001	4/30/2024	Ruthenium-106	4.00E+00	1.23E+01	3.07E+01	pCi/L	U
3298	669066001	5/28/2024	Ruthenium-106	2.46E+01	1.81E+01	3.32E+01	pCi/L	U
3298	672777001	6/24/2024	Ruthenium-106	3.30E+00	9.67E+00	3.19E+01	pCi/L	U
3298	676806001	7/22/2024	Ruthenium-106	-2.71E+00	1.11E+01	3.01E+01	pCi/L	U
3298	681493001	8/19/2024	Ruthenium-106	2.90E+01	1.14E+01	4.55E+01	pCi/L	U
3298	685846001	9/16/2024	Ruthenium-106	-6.50E+00	1.25E+01	3.93E+01	pCi/L	U
3298	690097001	10/14/2024	Ruthenium-106	-1.12E+00	7.72E+00	2.50E+01	pCi/L	U
3298	694915001	11/12/2024	Ruthenium-106	2.84E+01	1.49E+01	3.79E+01	pCi/L	U
3298	699437003	12/11/2024	Ruthenium-106	-2.39E+01	1.34E+01	3.53E+01	pCi/L	U
3298	650998001	1/8/2024	Selenium-75	2.78E-01	1.32E+00	4.17E+00	pCi/L	U
3298	654193001	2/5/2024	Selenium-75	-1.23E+00	1.82E+00	5.23E+00	pCi/L	U
3298	663093001	4/1/2024	Selenium-75	3.69E-01	1.03E+00	3.27E+00	pCi/L	U
3298	665208001	4/30/2024	Selenium-75	-2.58E+00	1.99E+00	5.73E+00	pCi/L	U
3298	669066001	5/28/2024	Selenium-75	-1.46E+00	1.72E+00	5.04E+00	pCi/L	U
3298	672777001	6/24/2024	Selenium-75	4.60E-01	1.40E+00	4.85E+00	pCi/L	U
3298	676806001	7/22/2024	Selenium-75	-9.04E-01	1.55E+00	4.93E+00	pCi/L	U
3298	681493001	8/19/2024	Selenium-75	1.43E+00	1.66E+00	5.83E+00	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	685846001	9/16/2024	Selenium-75	2.31E-01	1.61E+00	5.16E+00	pCi/L	U
3298	690097001	10/14/2024	Selenium-75	-1.27E-01	9.78E-01	3.25E+00	pCi/L	U
3298	694915001	11/12/2024	Selenium-75	2.01E-01	1.90E+00	5.97E+00	pCi/L	U
3298	699437003	12/11/2024	Selenium-75	1.96E+00	1.96E+00	6.67E+00	pCi/L	U
3298	650998001	1/8/2024	Silver-108m	-1.93E+00	1.09E+00	2.82E+00	pCi/L	U
3298	654193001	2/5/2024	Silver-108m	-2.15E-01	1.29E+00	4.17E+00	pCi/L	U
3298	663093001	4/1/2024	Silver-108m	-5.62E-01	7.18E-01	2.28E+00	pCi/L	U
3298	665208001	4/30/2024	Silver-108m	1.10E+00	9.80E-01	3.58E+00	pCi/L	U
3298	669066001	5/28/2024	Silver-108m	-9.77E-01	1.06E+00	3.26E+00	pCi/L	U
3298	672777001	6/24/2024	Silver-108m	3.36E-01	7.50E-01	2.57E+00	pCi/L	U
3298	676806001	7/22/2024	Silver-108m	-1.26E+00	1.03E+00	3.02E+00	pCi/L	U
3298	681493001	8/19/2024	Silver-108m	-7.04E-01	1.11E+00	3.31E+00	pCi/L	U
3298	685846001	9/16/2024	Silver-108m	2.03E+00	2.18E+00	3.93E+00	pCi/L	U
3298	690097001	10/14/2024	Silver-108m	-2.58E-01	6.98E-01	2.21E+00	pCi/L	U
3298	694915001	11/12/2024	Silver-108m	-1.12E+00	9.80E-01	2.99E+00	pCi/L	U
3298	699437003	12/11/2024	Silver-108m	9.31E-01	1.15E+00	3.89E+00	pCi/L	U
3298	650998001	1/8/2024	Silver-110m	1.35E+00	1.08E+00	3.89E+00	pCi/L	U
3298	654193001	2/5/2024	Silver-110m	-3.95E-01	1.90E+00	5.27E+00	pCi/L	U
3298	663093001	4/1/2024	Silver-110m	-2.49E-01	1.28E+00	4.24E+00	pCi/L	U
3298	665208001	4/30/2024	Silver-110m	2.35E+00	1.45E+00	5.59E+00	pCi/L	U
3298	669066001	5/28/2024	Silver-110m	9.19E-01	1.48E+00	5.30E+00	pCi/L	U
3298	672777001	6/24/2024	Silver-110m	3.02E+00	1.51E+00	4.56E+00	pCi/L	U
3298	676806001	7/22/2024	Silver-110m	-5.74E-01	1.46E+00	4.71E+00	pCi/L	U
3298	681493001	8/19/2024	Silver-110m	6.93E-01	1.69E+00	5.64E+00	pCi/L	U
3298	685846001	9/16/2024	Silver-110m	9.48E-01	1.78E+00	6.05E+00	pCi/L	U
3298	690097001	10/14/2024	Silver-110m	-8.69E-01	1.15E+00	3.59E+00	pCi/L	U
3298	694915001	11/12/2024	Silver-110m	1.97E-01	1.46E+00	4.95E+00	pCi/L	U
3298	699437003	12/11/2024	Silver-110m	2.91E-02	1.58E+00	5.26E+00	pCi/L	U
3298	650998001	1/8/2024	Tellurium-132	-4.07E+00	9.43E+00	2.92E+01	pCi/L	U
3298	654193001	2/5/2024	Tellurium-132	-4.66E+00	4.54E+00	1.35E+01	pCi/L	U
3298	663093001	4/1/2024	Tellurium-132	4.76E+00	2.02E+01	6.41E+01	pCi/L	U
3298	665208001	4/30/2024	Tellurium-132	-3.79E+00	1.09E+01	3.38E+01	pCi/L	U
3298	669066001	5/28/2024	Tellurium-132	1.54E+00	6.01E+00	1.93E+01	pCi/L	U
3298	672777001	6/24/2024	Tellurium-132	5.74E+00	1.42E+01	4.50E+01	pCi/L	U
3298	676806001	7/22/2024	Tellurium-132	2.68E+00	5.67E+00	1.91E+01	pCi/L	U
3298	681493001	8/19/2024	Tellurium-132	-5.01E+00	7.20E+00	2.34E+01	pCi/L	U
3298	685846001	9/16/2024	Tellurium-132	-5.43E+00	7.57E+00	2.30E+01	pCi/L	U
3298	690097001	10/14/2024	Tellurium-132	3.27E+01	1.99E+01	6.39E+01	pCi/L	U
3298	694915001	11/12/2024	Tellurium-132	-4.61E-01	6.77E+00	2.13E+01	pCi/L	U
3298	699437003	12/11/2024	Tellurium-132	9.51E+00	7.47E+00	2.57E+01	pCi/L	U
3298	650998001	1/8/2024	Thallium-208	-1.80E+00	1.29E+00	3.45E+00	pCi/L	U
3298	654193001	2/5/2024	Thallium-208	-5.28E-01	1.40E+00	4.19E+00	pCi/L	U
3298	663093001	4/1/2024	Thallium-208	-1.34E+00	1.18E+00	3.40E+00	pCi/L	U
3298	665208001	4/30/2024	Thallium-208	-1.28E+00	1.67E+00	5.18E+00	pCi/L	U
3298	669066001	5/28/2024	Thallium-208	-1.09E+00	1.64E+00	5.12E+00	pCi/L	U
3298	672777001	6/24/2024	Thallium-208	-1.38E+00	1.36E+00	3.96E+00	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	676806001	7/22/2024	Thallium-208	8.01E-01	2.26E+00	3.21E+00	pCi/L	U
3298	681493001	8/19/2024	Thallium-208	2.76E+00	2.09E+00	4.10E+00	pCi/L	U
3298	685846001	9/16/2024	Thallium-208	-1.01E+00	1.45E+00	4.49E+00	pCi/L	U
3298	690097001	10/14/2024	Thallium-208	-1.34E+00	1.86E+00	3.31E+00	pCi/L	U
3298	694915001	11/12/2024	Thallium-208	1.04E+00	2.13E+00	4.54E+00	pCi/L	U
3298	699437003	12/11/2024	Thallium-208	-6.98E-01	1.82E+00	5.61E+00	pCi/L	U
3298	650998001	1/8/2024	Thorium-228	2.30E+00	3.52E+00	5.16E+00	pCi/L	U
3298	654193001	2/5/2024	Thorium-228	2.88E+00	2.62E+00	8.02E+00	pCi/L	U
3298	663093001	4/1/2024	Thorium-228	1.44E-02	2.51E+00	5.82E+00	pCi/L	U
3298	665208001	4/30/2024	Thorium-228	8.71E-01	4.03E+00	1.07E+01	pCi/L	U
3298	669066001	5/28/2024	Thorium-228	6.78E+00	4.44E+00	9.18E+00	pCi/L	U
3298	672777001	6/24/2024	Thorium-228	-2.79E+00	2.23E+00	7.19E+00	pCi/L	U
3298	676806001	7/22/2024	Thorium-228	7.00E+00	4.69E+00	9.35E+00	pCi/L	U
3298	681493001	8/19/2024	Thorium-228	1.08E+00	3.80E+00	9.12E+00	pCi/L	U
3298	685846001	9/16/2024	Thorium-228	-4.54E+00	2.91E+00	8.48E+00	pCi/L	U
3298	690097001	10/14/2024	Thorium-228	2.09E+00	2.34E+00	4.04E+00	pCi/L	U
3298	694915001	11/12/2024	Thorium-228	3.70E+00	2.99E+00	8.63E+00	pCi/L	U
3298	699437003	12/11/2024	Thorium-228	2.23E+00	5.05E+00	9.00E+00	pCi/L	U
3298	650998001	1/8/2024	Thorium-230	2.07E+03	6.90E+02	1.09E+03	pCi/L	UI
3298	654193001	2/5/2024	Thorium-230	1.43E+03	9.21E+02	1.31E+03	pCi/L	UI
3298	663093001	4/1/2024	Thorium-230	7.61E+01	3.40E+02	1.17E+03	pCi/L	U
3298	665208001	4/30/2024	Thorium-230	-5.52E+02	6.43E+02	2.07E+03	pCi/L	U
3298	669066001	5/28/2024	Thorium-230	1.23E+03	9.57E+02	1.47E+03	pCi/L	U
3298	672777001	6/24/2024	Thorium-230	1.17E+03	5.06E+02	9.25E+02	pCi/L	UI
3298	676806001	7/22/2024	Thorium-230	5.85E+02	4.31E+02	1.41E+03	pCi/L	U
3298	681493001	8/19/2024	Thorium-230	6.91E+02	6.82E+02	2.42E+03	pCi/L	U
3298	685846001	9/16/2024	Thorium-230	1.66E+03	1.01E+03	2.47E+03	pCi/L	U
3298	690097001	10/14/2024	Thorium-230	-2.00E+02	1.27E+02	4.00E+02	pCi/L	U
3298	694915001	11/12/2024	Thorium-230	-4.42E+02	5.07E+02	1.59E+03	pCi/L	U
3298	699437003	12/11/2024	Thorium-230	8.96E+01	8.08E+02	2.71E+03	pCi/L	U
3298	650998001	1/8/2024	Thorium-232	1.54E+02	9.42E+02	1.88E+03	pCi/L	U
3298	654193001	2/5/2024	Thorium-232	1.87E+03	1.05E+03	2.26E+03	pCi/L	U
3298	663093001	4/1/2024	Thorium-232	-1.42E+03	7.65E+02	2.25E+03	pCi/L	U
3298	665208001	4/30/2024	Thorium-232	6.13E+02	1.51E+03	4.69E+03	pCi/L	U
3298	669066001	5/28/2024	Thorium-232	1.74E+02	1.32E+03	2.58E+03	pCi/L	U
3298	672777001	6/24/2024	Thorium-232	3.32E+02	1.03E+03	1.29E+03	pCi/L	U
3298	676806001	7/22/2024	Thorium-232	5.76E+03	1.63E+03	2.36E+03	pCi/L	UI
3298	681493001	8/19/2024	Thorium-232	1.40E+02	1.20E+03	4.08E+03	pCi/L	U
3298	685846001	9/16/2024	Thorium-232	2.52E+03	2.20E+03	3.94E+03	pCi/L	U
3298	690097001	10/14/2024	Thorium-232	-4.33E+02	2.92E+02	8.00E+02	pCi/L	U
3298	694915001	11/12/2024	Thorium-232	2.41E+02	1.33E+03	2.67E+03	pCi/L	U
3298	699437003	12/11/2024	Thorium-232	-7.45E+02	1.77E+03	5.60E+03	pCi/L	U
3298	665208001	4/30/2024	Thorium-234	-5.74E+01	1.13E+02	3.37E+02	pCi/L	U
3298	672777001	6/24/2024	Thorium-234	2.33E+01	7.20E+01	9.23E+01	pCi/L	U
3298	694915001	11/12/2024	Thorium-234	1.70E+01	9.37E+01	1.93E+02	pCi/L	U
3298	699437003	12/11/2024	Thorium-234	-1.39E+02	1.28E+02	3.98E+02	pCi/L	U

Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	650998001	1/8/2024	Tritium	-9.45E+01	9.92E+01	3.44E+02	pCi/L	U
3298	654193001	2/5/2024	Tritium	1.29E+01	6.68E+01	2.16E+02	pCi/L	U
3298	664027002	3/4/2024	Tritium	4.74E+02	2.30E+02	6.82E+02	pCi/L	U
3298	663093001	4/1/2024	Tritium	1.23E+02	1.05E+02	3.23E+02	pCi/L	U
3298	665208001	4/30/2024	Tritium	-3.30E+01	9.92E+01	3.33E+02	pCi/L	U
3298	669066001	5/28/2024	Tritium	6.69E+01	9.80E+01	3.09E+02	pCi/L	U
3298	672777001	6/24/2024	Tritium	8.29E+02	1.31E+02	1.92E+02	pCi/L	
3298	676806001	7/22/2024	Tritium	1.02E+03	3.12E+02	3.96E+02	pCi/L	
3298	681493001	8/19/2024	Tritium	8.37E+02	1.41E+02	3.55E+02	pCi/L	
3298	695236002	9/16/2024	Tritium	-4.18E+02	2.69E+02	9.23E+02	pCi/L	U
3298	685846001	9/16/2024	Tritium	1.93E+02	9.03E+01	2.69E+02	pCi/L	U
3298	690097001	10/14/2024	Tritium	5.82E+02	2.27E+02	2.53E+02	pCi/L	
3298	690097001	10/14/2024	Tritium	5.40E+02	1.16E+02	3.17E+02	pCi/L	
3298	694915001	11/12/2024	Tritium	2.38E+03	1.71E+02	3.33E+02	pCi/L	
3298	706987002	12/11/2024	Tritium	4.47E+02	1.74E+02	5.18E+02	pCi/L	U
3298	699437003	12/11/2024	Tritium	6.98E+02	1.11E+02	2.76E+02	pCi/L	
3298	650998001	1/8/2024	Uranium-234	5.14E+03	2.47E+03	8.93E+03	pCi/L	U
3298	654193001	2/5/2024	Uranium-234	2.01E+03	2.82E+03	9.80E+03	pCi/L	U
3298	663093001	4/1/2024	Uranium-234	-1.29E+01	2.71E+03	9.34E+03	pCi/L	U
3298	665208001	4/30/2024	Uranium-234	3.25E+02	7.11E+03	2.42E+04	pCi/L	U
3298	669066001	5/28/2024	Uranium-234	2.07E+02	3.77E+03	1.30E+04	pCi/L	U
3298	672777001	6/24/2024	Uranium-234	-6.56E+02	1.61E+03	4.87E+03	pCi/L	U
3298	676806001	7/22/2024	Uranium-234	3.37E+03	2.66E+03	9.51E+03	pCi/L	U
3298	681493001	8/19/2024	Uranium-234	6.34E+02	5.01E+03	1.75E+04	pCi/L	U
3298	685846001	9/16/2024	Uranium-234	-1.41E+02	7.17E+03	2.46E+04	pCi/L	U
3298	690097001	10/14/2024	Uranium-234	1.22E+03	7.01E+02	1.10E+03	pCi/L	UI
3298	694915001	11/12/2024	Uranium-234	-5.34E+03	3.83E+03	1.17E+04	pCi/L	U
3298	699437003	12/11/2024	Uranium-234	-9.26E+03	7.41E+03	2.37E+04	pCi/L	U
3298	650998001	1/8/2024	Zinc-65	2.23E+00	1.77E+00	6.63E+00	pCi/L	U
3298	654193001	2/5/2024	Zinc-65	7.82E-01	2.28E+00	7.98E+00	pCi/L	U
3298	663093001	4/1/2024	Zinc-65	-1.67E+00	1.92E+00	5.81E+00	pCi/L	U
3298	665208001	4/30/2024	Zinc-65	-5.75E-01	2.59E+00	8.51E+00	pCi/L	U
3298	669066001	5/28/2024	Zinc-65	3.71E+00	2.36E+00	9.26E+00	pCi/L	U
3298	672777001	6/24/2024	Zinc-65	-2.71E+00	2.21E+00	6.29E+00	pCi/L	U
3298	676806001	7/22/2024	Zinc-65	1.10E+00	2.08E+00	7.30E+00	pCi/L	U
3298	681493001	8/19/2024	Zinc-65	-6.99E-01	2.68E+00	8.46E+00	pCi/L	U
3298	685846001	9/16/2024	Zinc-65	-3.84E+00	2.67E+00	5.45E+00	pCi/L	U
3298	690097001	10/14/2024	Zinc-65	-2.15E+00	1.96E+00	4.83E+00	pCi/L	U
3298	694915001	11/12/2024	Zinc-65	7.99E-01	2.55E+00	8.61E+00	pCi/L	U
3298	699437003	12/11/2024	Zinc-65	-1.63E+00	2.70E+00	8.33E+00	pCi/L	U
3298	650998001	1/8/2024	Zirconium-95	-1.46E+00	1.93E+00	5.93E+00	pCi/L	U
3298	654193001	2/5/2024	Zirconium-95	7.52E-01	1.86E+00	6.31E+00	pCi/L	U
3298	663093001	4/1/2024	Zirconium-95	5.13E-01	1.51E+00	5.25E+00	pCi/L	U
3298	665208001	4/30/2024	Zirconium-95	4.01E+00	2.56E+00	9.45E+00	pCi/L	U
3298	669066001	5/28/2024	Zirconium-95	-3.19E+00	2.44E+00	7.36E+00	pCi/L	U
3298	672777001	6/24/2024	Zirconium-95	-1.02E+00	2.30E+00	6.56E+00	pCi/L	U

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Table 14: Complete REMP Results –Surface Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	676806001	7/22/2024	Zirconium-95	2.11E+00	1.64E+00	6.19E+00	pCi/L	U
3298	681493001	8/19/2024	Zirconium-95	-5.38E-01	2.48E+00	7.80E+00	pCi/L	U
3298	685846001	9/16/2024	Zirconium-95	4.53E+00	2.19E+00	8.67E+00	pCi/L	U
3298	690097001	10/14/2024	Zirconium-95	-8.56E-01	1.66E+00	5.36E+00	pCi/L	U
3298	694915001	11/12/2024	Zirconium-95	-2.38E+00	1.94E+00	5.85E+00	pCi/L	U
3298	699437003	12/11/2024	Zirconium-95	2.70E+00	2.43E+00	8.77E+00	pCi/L	U

Table 15: Complete REMP Results – Well Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2136	650995004	1/8/2024	Actinium-228	1.18E+01	6.78E+00	1.73E+01	pCi/L	U
2136	662053001	4/8/2024	Actinium-228	-9.54E+00	3.72E+00	9.00E+00	pCi/L	U
2136	674337002	7/12/2024	Actinium-228	-3.51E+00	4.52E+00	1.28E+01	pCi/L	U
2136	650995004	1/8/2024	Americium-241	2.47E+00	6.62E+00	2.06E+01	pCi/L	U
2136	662053001	4/8/2024	Americium-241	-2.53E+00	4.58E+00	1.48E+01	pCi/L	U
2136	674337002	7/12/2024	Americium-241	8.48E+00	4.68E+00	1.43E+01	pCi/L	U
2136	650995004	1/8/2024	Antimony-124	-2.26E+00	2.33E+00	6.53E+00	pCi/L	U
2136	662053001	4/8/2024	Antimony-124	9.53E-01	1.80E+00	6.18E+00	pCi/L	U
2136	674337002	7/12/2024	Antimony-124	2.83E+00	2.20E+00	8.03E+00	pCi/L	U
2136	650995004	1/8/2024	Antimony-125	-2.87E+00	2.90E+00	9.09E+00	pCi/L	U
2136	662053001	4/8/2024	Antimony-125	4.81E-01	1.87E+00	6.33E+00	pCi/L	U
2136	674337002	7/12/2024	Antimony-125	6.65E-01	2.22E+00	6.87E+00	pCi/L	U
2136	650995004	1/8/2024	Barium-140	2.19E+00	6.31E+00	1.88E+01	pCi/L	U
2136	662053001	4/8/2024	Barium-140	-1.69E+00	5.30E+00	1.47E+01	pCi/L	U
2136	674337002	7/12/2024	Barium-140	5.94E+00	4.98E+00	1.75E+01	pCi/L	U
2136	650995004	1/8/2024	Beryllium-7	-5.58E+00	1.00E+01	3.19E+01	pCi/L	U
2136	662053001	4/8/2024	Beryllium-7	-1.77E+00	6.44E+00	2.11E+01	pCi/L	U
2136	674337002	7/12/2024	Beryllium-7	-7.33E+00	6.93E+00	2.20E+01	pCi/L	U
2136	650995004	1/8/2024	BETA	5.64E-01	9.61E-01	3.02E+00	pCi/L	U
2136	662053001	4/8/2024	BETA	2.02E+00	9.61E-01	2.69E+00	pCi/L	U
2136	674337002	7/12/2024	BETA	3.80E-01	7.34E-01	2.32E+00	pCi/L	U
2136	650995004	1/8/2024	Bismuth-214	5.09E+00	3.17E+00	1.02E+01	pCi/L	U
2136	662053001	4/8/2024	Bismuth-214	7.61E+00	2.70E+00	4.88E+00	pCi/L	UI
2136	674337002	7/12/2024	Bismuth-214	-1.77E+00	2.12E+00	5.98E+00	pCi/L	U
2136	650995004	1/8/2024	Cerium-141	-8.14E-01	2.37E+00	6.85E+00	pCi/L	U
2136	662053001	4/8/2024	Cerium-141	-2.37E+00	1.77E+00	4.52E+00	pCi/L	U
2136	674337002	7/12/2024	Cerium-141	-1.29E+00	1.78E+00	5.18E+00	pCi/L	U
2136	650995004	1/8/2024	Cerium-144	-8.32E+00	7.27E+00	2.26E+01	pCi/L	U
2136	662053001	4/8/2024	Cerium-144	-1.07E+01	5.38E+00	1.60E+01	pCi/L	U
2136	674337002	7/12/2024	Cerium-144	-7.90E+00	5.75E+00	1.79E+01	pCi/L	U
2136	650995004	1/8/2024	Cesium-134	3.22E-01	9.56E-01	3.29E+00	pCi/L	U
2136	662053001	4/8/2024	Cesium-134	-5.29E-02	8.11E-01	2.59E+00	pCi/L	U

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Table 15: Complete REMP Results – Well Water (pCi/L)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2136	674337002	7/12/2024	Cesium-134	8.59E-01	8.84E-01	3.05E+00	pCi/L	U
2136	650995004	1/8/2024	Cesium-137	4.94E-01	1.16E+00	3.80E+00	pCi/L	U
2136	662053001	4/8/2024	Cesium-137	-7.65E-01	9.40E-01	2.47E+00	pCi/L	U
2136	674337002	7/12/2024	Cesium-137	8.02E-02	8.56E-01	2.83E+00	pCi/L	U
2136	650995004	1/8/2024	Chromium-51	5.90E+00	1.04E+01	3.59E+01	pCi/L	U
2136	662053001	4/8/2024	Chromium-51	3.02E+00	6.91E+00	2.38E+01	pCi/L	U
2136	674337002	7/12/2024	Chromium-51	-7.05E+00	7.99E+00	2.65E+01	pCi/L	U
2136	650995004	1/8/2024	Cobalt-57	-1.74E-01	1.00E+00	2.99E+00	pCi/L	U
2136	662053001	4/8/2024	Cobalt-57	-8.86E-01	7.01E-01	2.15E+00	pCi/L	U
2136	674337002	7/12/2024	Cobalt-57	8.50E-01	1.08E+00	2.26E+00	pCi/L	U
2136	650995004	1/8/2024	Cobalt-58	-7.61E-01	9.80E-01	3.11E+00	pCi/L	U
2136	662053001	4/8/2024	Cobalt-58	-1.57E+00	9.81E-01	2.14E+00	pCi/L	U
2136	674337002	7/12/2024	Cobalt-58	6.74E-01	8.22E-01	2.81E+00	pCi/L	U
2136	650995004	1/8/2024	Cobalt-60	-5.18E-01	1.07E+00	3.26E+00	pCi/L	U
2136	662053001	4/8/2024	Cobalt-60	-3.25E-01	6.05E-01	1.90E+00	pCi/L	U
2136	674337002	7/12/2024	Cobalt-60	1.86E+00	8.59E-01	3.33E+00	pCi/L	U
2136	650995004	1/8/2024	Iodine-131	4.86E+00	2.60E+00	8.03E+00	pCi/L	U
2136	662053001	4/8/2024	Iodine-131	4.08E-01	1.60E+00	5.43E+00	pCi/L	U
2136	674337002	7/12/2024	Iodine-131	2.92E+00	2.15E+00	7.66E+00	pCi/L	U
2136	650995004	1/8/2024	Iron-59	8.04E-01	1.97E+00	6.67E+00	pCi/L	U
2136	662053001	4/8/2024	Iron-59	2.98E+00	1.33E+00	5.22E+00	pCi/L	U
2136	674337002	7/12/2024	Iron-59	6.28E-01	1.18E+00	4.21E+00	pCi/L	U
2136	650995004	1/8/2024	Lanthanum-140	-3.09E+00	2.34E+00	6.87E+00	pCi/L	U
2136	662053001	4/8/2024	Lanthanum-140	7.96E-01	1.03E+00	3.70E+00	pCi/L	U
2136	674337002	7/12/2024	Lanthanum-140	8.24E-01	1.37E+00	4.82E+00	pCi/L	U
2136	650995004	1/8/2024	Lead-210	-1.06E+02	1.71E+02	5.00E+02	pCi/L	U
2136	662053001	4/8/2024	Lead-210	2.14E+02	2.09E+02	3.71E+02	pCi/L	U
2136	674337002	7/12/2024	Lead-210	2.48E+02	2.34E+02	3.86E+02	pCi/L	U
2136	650995004	1/8/2024	Lead-212	-1.88E+00	2.32E+00	7.21E+00	pCi/L	U
2136	662053001	4/8/2024	Lead-212	2.33E+00	2.27E+00	4.40E+00	pCi/L	U
2136	674337002	7/12/2024	Lead-212	1.46E+00	2.09E+00	6.20E+00	pCi/L	U
2136	650995004	1/8/2024	Lead-214	5.24E+00	4.65E+00	1.00E+01	pCi/L	U
2136	662053001	4/8/2024	Lead-214	3.36E+00	3.35E+00	6.87E+00	pCi/L	U
2136	674337002	7/12/2024	Lead-214	-2.05E+00	2.27E+00	6.48E+00	pCi/L	U
2136	650995004	1/8/2024	Manganese-54	1.41E-01	8.39E-01	2.84E+00	pCi/L	U
2136	662053001	4/8/2024	Manganese-54	-2.02E-01	7.53E-01	2.37E+00	pCi/L	U
2136	674337002	7/12/2024	Manganese-54	-7.98E-01	8.34E-01	2.52E+00	pCi/L	U
2136	650995004	1/8/2024	Molybdenum-99	4.21E+01	1.02E+02	3.56E+02	pCi/L	U
2136	662053001	4/8/2024	Molybdenum-99	-4.62E+01	6.63E+01	2.04E+02	pCi/L	U
2136	674337002	7/12/2024	Molybdenum-99	-2.78E+01	8.06E+01	2.57E+02	pCi/L	U
2136	650995004	1/8/2024	Niobium-95	-1.40E+00	9.71E-01	2.95E+00	pCi/L	U
2136	662053001	4/8/2024	Niobium-95	-4.88E-01	8.97E-01	2.37E+00	pCi/L	U
2136	674337002	7/12/2024	Niobium-95	9.64E-01	1.09E+00	3.17E+00	pCi/L	U
2136	650995004	1/8/2024	Potassium-40	4.24E+01	1.94E+01	2.30E+01	pCi/L	UI
2136	662053001	4/8/2024	Potassium-40	-4.56E+01	1.12E+01	2.55E+01	pCi/L	U
2136	674337002	7/12/2024	Potassium-40	-2.08E+01	1.19E+01	3.56E+01	pCi/L	U

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Table 15: Complete REMP Results – Well Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2136	650995004	1/8/2024	Radium-226	6.09E+01	5.20E+01	6.95E+01	pCi/L	U
2136	662053001	4/8/2024	Radium-226	-3.31E+01	2.26E+01	6.90E+01	pCi/L	U
2136	674337002	7/12/2024	Radium-226	-4.44E+01	2.33E+01	6.93E+01	pCi/L	U
2136	650995004	1/8/2024	Radium-228	1.18E+01	6.78E+00	1.73E+01	pCi/L	U
2136	662053001	4/8/2024	Radium-228	-9.54E+00	3.72E+00	9.00E+00	pCi/L	U
2136	674337002	7/12/2024	Radium-228	-3.51E+00	4.52E+00	1.28E+01	pCi/L	U
2136	650995004	1/8/2024	Ruthenium-103	-2.16E-01	1.29E+00	4.18E+00	pCi/L	U
2136	662053001	4/8/2024	Ruthenium-103	3.22E-01	8.37E-01	2.55E+00	pCi/L	U
2136	674337002	7/12/2024	Ruthenium-103	-1.77E+00	9.73E-01	2.99E+00	pCi/L	U
2136	650995004	1/8/2024	Ruthenium-106	-7.76E+00	1.18E+01	3.42E+01	pCi/L	U
2136	662053001	4/8/2024	Ruthenium-106	1.05E+01	6.07E+00	2.19E+01	pCi/L	U
2136	674337002	7/12/2024	Ruthenium-106	-7.16E+00	8.87E+00	2.36E+01	pCi/L	U
2136	650995004	1/8/2024	Selenium-75	3.14E-01	1.37E+00	4.25E+00	pCi/L	U
2136	662053001	4/8/2024	Selenium-75	7.78E-01	9.15E-01	3.22E+00	pCi/L	U
2136	674337002	7/12/2024	Selenium-75	-1.30E+00	1.22E+00	3.65E+00	pCi/L	U
2136	650995004	1/8/2024	Silver-108m	3.80E-01	8.89E-01	2.99E+00	pCi/L	U
2136	662053001	4/8/2024	Silver-108m	-3.72E-02	6.87E-01	2.05E+00	pCi/L	U
2136	674337002	7/12/2024	Silver-108m	2.21E+00	1.62E+00	2.83E+00	pCi/L	U
2136	650995004	1/8/2024	Silver-110m	1.49E+00	1.33E+00	4.78E+00	pCi/L	U
2136	662053001	4/8/2024	Silver-110m	6.66E-01	9.62E-01	3.23E+00	pCi/L	U
2136	674337002	7/12/2024	Silver-110m	1.70E+00	9.81E-01	3.58E+00	pCi/L	U
2136	650995004	1/8/2024	Tellurium-132	-9.92E-02	9.59E+00	2.98E+01	pCi/L	U
2136	662053001	4/8/2024	Tellurium-132	1.92E+01	7.23E+00	1.74E+01	pCi/L	UI
2136	674337002	7/12/2024	Tellurium-132	7.13E+00	6.46E+00	2.13E+01	pCi/L	U
2136	650995004	1/8/2024	Thallium-208	1.47E+00	1.93E+00	3.14E+00	pCi/L	U
2136	662053001	4/8/2024	Thallium-208	4.17E+00	1.27E+00	2.13E+00	pCi/L	UI
2136	674337002	7/12/2024	Thallium-208	-1.77E-01	1.13E+00	3.33E+00	pCi/L	U
2136	650995004	1/8/2024	Thorium-228	-1.88E+00	2.32E+00	7.21E+00	pCi/L	U
2136	662053001	4/8/2024	Thorium-228	2.33E+00	2.27E+00	4.40E+00	pCi/L	U
2136	674337002	7/12/2024	Thorium-228	1.46E+00	2.09E+00	6.20E+00	pCi/L	U
2136	650995004	1/8/2024	Thorium-230	1.53E+03	6.56E+02	1.26E+03	pCi/L	UI
2136	662053001	4/8/2024	Thorium-230	3.43E+02	4.90E+02	9.01E+02	pCi/L	U
2136	674337002	7/12/2024	Thorium-230	2.27E+03	5.69E+02	9.32E+02	pCi/L	UI
2136	650995004	1/8/2024	Thorium-232	1.73E+03	1.19E+03	2.17E+03	pCi/L	U
2136	662053001	4/8/2024	Thorium-232	7.56E+02	9.58E+02	1.69E+03	pCi/L	U
2136	674337002	7/12/2024	Thorium-232	6.10E+02	9.64E+02	1.58E+03	pCi/L	U
2136	650995004	1/8/2024	Thorium-234	1.22E+02	8.39E+01	1.90E+02	pCi/L	U
2136	662053001	4/8/2024	Thorium-234	5.31E+01	6.73E+01	1.59E+02	pCi/L	U
2136	674337002	7/12/2024	Thorium-234	4.28E+01	6.77E+01	1.45E+02	pCi/L	U
2136	650995004	1/8/2024	Tritium	3.44E+02	1.97E+02	6.00E+02	pCi/L	U
2136	662053001	4/8/2024	Tritium	-2.03E+02	2.20E+02	7.58E+02	pCi/L	U
2136	674337002	7/12/2024	Tritium	-5.03E+00	2.05E+02	6.74E+02	pCi/L	U
2136	650995004	1/8/2024	Uranium-234	9.65E+03	4.63E+03	8.41E+03	pCi/L	UI
2136	662053001	4/8/2024	Uranium-234	-3.36E+03	2.92E+03	7.91E+03	pCi/L	U
2136	674337002	7/12/2024	Uranium-234	2.27E+03	1.92E+03	6.74E+03	pCi/L	U
2136	650995004	1/8/2024	Zinc-65	1.20E+00	2.49E+00	7.49E+00	pCi/L	U

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Table 15: Complete REMP Results – Well Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2136	662053001	4/8/2024	Zinc-65	-2.73E-01	1.81E+00	5.31E+00	pCi/L	U
2136	674337002	7/12/2024	Zinc-65	-4.53E-01	1.75E+00	5.10E+00	pCi/L	U
2136	650995004	1/8/2024	Zirconium-95	1.92E+00	1.79E+00	6.46E+00	pCi/L	U
2136	662053001	4/8/2024	Zirconium-95	7.53E-01	1.39E+00	4.64E+00	pCi/L	U
2136	674337002	7/12/2024	Zirconium-95	5.57E-01	1.32E+00	4.42E+00	pCi/L	U
2204	660794005	4/7/2024	Actinium-228	1.69E+01	8.05E+00	2.48E+01	pCi/L	U
2204	689080001	10/9/2024	Actinium-228	-1.05E+01	5.13E+00	1.48E+01	pCi/L	U
2204	660794005	4/7/2024	Americium-241	-2.26E+01	1.44E+01	3.98E+01	pCi/L	U
2204	689080001	10/9/2024	Americium-241	3.27E+00	7.98E+00	2.48E+01	pCi/L	U
2204	660794005	4/7/2024	Antimony-124	-6.51E-01	3.14E+00	1.01E+01	pCi/L	U
2204	689080001	10/9/2024	Antimony-124	-5.84E+00	2.99E+00	6.56E+00	pCi/L	U
2204	660794005	4/7/2024	Antimony-125	-5.77E-02	4.65E+00	1.51E+01	pCi/L	U
2204	689080001	10/9/2024	Antimony-125	8.45E-01	2.96E+00	1.01E+01	pCi/L	U
2204	660794005	4/7/2024	Barium-140	5.00E-01	7.80E+00	2.50E+01	pCi/L	U
2204	689080001	10/9/2024	Barium-140	7.93E-01	5.48E+00	1.82E+01	pCi/L	U
2204	660794005	4/7/2024	Beryllium-7	9.94E+00	1.40E+01	4.61E+01	pCi/L	U
2204	689080001	10/9/2024	Beryllium-7	6.43E+00	1.02E+01	3.50E+01	pCi/L	U
2204	660794005	4/7/2024	BETA	7.96E+00	1.25E+00	2.57E+00	pCi/L	
2204	689080001	10/9/2024	BETA	9.71E+00	1.46E+00	3.16E+00	pCi/L	
2204	660794005	4/7/2024	Bismuth-214	1.21E+02	8.94E+00	9.46E+00	pCi/L	
2204	689080001	10/9/2024	Bismuth-214	7.84E+01	6.31E+00	7.30E+00	pCi/L	
2204	660794005	4/7/2024	Cerium-141	3.67E+00	3.33E+00	1.05E+01	pCi/L	U
2204	689080001	10/9/2024	Cerium-141	-5.39E+00	2.27E+00	6.50E+00	pCi/L	U
2204	660794005	4/7/2024	Cerium-144	3.91E+00	1.09E+01	3.46E+01	pCi/L	U
2204	689080001	10/9/2024	Cerium-144	1.38E+01	8.22E+00	2.80E+01	pCi/L	U
2204	660794005	4/7/2024	Cesium-134	4.10E+00	1.53E+00	6.15E+00	pCi/L	U
2204	689080001	10/9/2024	Cesium-134	1.34E+00	1.39E+00	4.03E+00	pCi/L	U
2204	660794005	4/7/2024	Cesium-137	4.69E+00	1.74E+00	4.92E+00	pCi/L	U
2204	689080001	10/9/2024	Cesium-137	-1.02E+00	1.11E+00	3.33E+00	pCi/L	U
2204	660794005	4/7/2024	Chromium-51	1.48E+01	1.33E+01	4.66E+01	pCi/L	U
2204	689080001	10/9/2024	Chromium-51	-1.32E+01	1.10E+01	3.51E+01	pCi/L	U
2204	660794005	4/7/2024	Cobalt-57	8.44E-01	1.46E+00	4.68E+00	pCi/L	U
2204	689080001	10/9/2024	Cobalt-57	4.23E-01	1.05E+00	3.43E+00	pCi/L	U
2204	660794005	4/7/2024	Cobalt-58	-3.82E-01	1.40E+00	4.55E+00	pCi/L	U
2204	689080001	10/9/2024	Cobalt-58	-2.46E+00	1.03E+00	2.41E+00	pCi/L	U
2204	660794005	4/7/2024	Cobalt-60	4.12E+00	1.78E+00	5.56E+00	pCi/L	U
2204	689080001	10/9/2024	Cobalt-60	-1.72E+00	1.15E+00	3.15E+00	pCi/L	U
2204	660794005	4/7/2024	Iodine-131	-8.38E-01	3.05E+00	9.86E+00	pCi/L	U
2204	689080001	10/9/2024	Iodine-131	-1.18E+00	1.99E+00	6.51E+00	pCi/L	U
2204	660794005	4/7/2024	Iron-59	-1.43E+00	3.30E+00	1.03E+01	pCi/L	U
2204	689080001	10/9/2024	Iron-59	1.95E+00	2.27E+00	8.22E+00	pCi/L	U
2204	660794005	4/7/2024	Lanthanum-140	-5.69E+00	2.84E+00	7.09E+00	pCi/L	U
2204	689080001	10/9/2024	Lanthanum-140	2.45E-01	1.62E+00	5.44E+00	pCi/L	U
2204	660794005	4/7/2024	Lead-210	-1.97E+02	4.06E+02	1.30E+03	pCi/L	U
2204	689080001	10/9/2024	Lead-210	8.25E+02	4.59E+02	6.46E+02	pCi/L	UI
2204	660794005	4/7/2024	Lead-212	7.43E+00	4.51E+00	9.29E+00	pCi/L	U

Table 15: Complete REMP Results – Well Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	689080001	10/9/2024	Lead-212	-3.28E+00	2.49E+00	7.35E+00	pCi/L	U
2204	660794005	4/7/2024	Lead-214	1.14E+02	9.92E+00	1.06E+01	pCi/L	
2204	689080001	10/9/2024	Lead-214	8.93E+01	6.21E+00	7.93E+00	pCi/L	
2204	660794005	4/7/2024	Manganese-54	5.35E-01	1.31E+00	4.50E+00	pCi/L	U
2204	689080001	10/9/2024	Manganese-54	7.45E-02	9.97E-01	3.22E+00	pCi/L	U
2204	660794005	4/7/2024	Molybdenum-99	3.91E+01	8.12E+01	2.82E+02	pCi/L	U
2204	689080001	10/9/2024	Molybdenum-99	-1.21E+01	5.24E+01	1.61E+02	pCi/L	U
2204	660794005	4/7/2024	Niobium-95	3.17E+00	1.44E+00	5.61E+00	pCi/L	U
2204	689080001	10/9/2024	Niobium-95	-3.44E-02	1.37E+00	3.90E+00	pCi/L	U
2204	660794005	4/7/2024	Potassium-40	-2.61E+01	1.64E+01	5.21E+01	pCi/L	U
2204	689080001	10/9/2024	Potassium-40	-3.12E+01	1.51E+01	4.65E+01	pCi/L	U
2204	660794005	4/7/2024	Radium-226	1.13E+02	6.31E+01	1.08E+02	pCi/L	UI
2204	689080001	10/9/2024	Radium-226	6.02E+01	4.84E+01	8.00E+01	pCi/L	U
2204	660794005	4/7/2024	Radium-228	1.69E+01	8.05E+00	2.48E+01	pCi/L	U
2204	689080001	10/9/2024	Radium-228	-1.05E+01	5.13E+00	1.48E+01	pCi/L	U
2204	660794005	4/7/2024	Ruthenium-103	-3.62E+00	1.68E+00	4.40E+00	pCi/L	U
2204	689080001	10/9/2024	Ruthenium-103	5.99E-01	1.28E+00	3.94E+00	pCi/L	U
2204	660794005	4/7/2024	Ruthenium-106	-5.28E+00	1.41E+01	4.06E+01	pCi/L	U
2204	689080001	10/9/2024	Ruthenium-106	-1.04E+01	1.01E+01	3.02E+01	pCi/L	U
2204	660794005	4/7/2024	Selenium-75	8.62E+00	3.46E+00	6.66E+00	pCi/L	UI
2204	689080001	10/9/2024	Selenium-75	-2.40E+00	1.46E+00	4.63E+00	pCi/L	U
2204	660794005	4/7/2024	Silver-108m	-1.51E+00	1.50E+00	4.56E+00	pCi/L	U
2204	689080001	10/9/2024	Silver-108m	1.79E+00	8.89E-01	3.33E+00	pCi/L	U
2204	660794005	4/7/2024	Silver-110m	3.08E-01	2.23E+00	7.45E+00	pCi/L	U
2204	689080001	10/9/2024	Silver-110m	1.31E+00	1.34E+00	4.71E+00	pCi/L	U
2204	660794005	4/7/2024	Tellurium-132	1.24E+00	7.33E+00	2.49E+01	pCi/L	U
2204	689080001	10/9/2024	Tellurium-132	1.88E+00	5.03E+00	1.60E+01	pCi/L	U
2204	660794005	4/7/2024	Thallium-208	-1.40E+00	1.82E+00	5.29E+00	pCi/L	U
2204	689080001	10/9/2024	Thallium-208	-3.52E-01	1.39E+00	4.35E+00	pCi/L	U
2204	660794005	4/7/2024	Thorium-228	7.43E+00	4.51E+00	9.29E+00	pCi/L	U
2204	689080001	10/9/2024	Thorium-228	-3.28E+00	2.49E+00	7.35E+00	pCi/L	U
2204	660794005	4/7/2024	Thorium-230	1.85E+03	8.24E+02	2.71E+03	pCi/L	U
2204	689080001	10/9/2024	Thorium-230	-4.80E+02	5.34E+02	1.67E+03	pCi/L	U
2204	660794005	4/7/2024	Thorium-232	2.81E+03	3.13E+03	4.62E+03	pCi/L	U
2204	689080001	10/9/2024	Thorium-232	1.30E+03	1.68E+03	2.84E+03	pCi/L	U
2204	660794005	4/7/2024	Thorium-234	1.98E+02	2.20E+02	3.97E+02	pCi/L	U
2204	689080001	10/9/2024	Thorium-234	9.12E+01	1.18E+02	2.37E+02	pCi/L	U
2204	660794005	4/7/2024	Tritium	-6.69E+01	9.35E+01	3.21E+02	pCi/L	U
2204	689080001	10/9/2024	Tritium	-5.42E+01	4.85E+01	1.70E+02	pCi/L	U
2204	660794005	4/7/2024	Uranium-234	8.41E+03	6.43E+03	2.20E+04	pCi/L	U
2204	689080001	10/9/2024	Uranium-234	5.40E+03	3.46E+03	1.21E+04	pCi/L	U
2204	660794005	4/7/2024	Zinc-65	5.69E-01	3.52E+00	1.02E+01	pCi/L	U
2204	689080001	10/9/2024	Zinc-65	-7.59E-01	2.49E+00	7.11E+00	pCi/L	U
2204	660794005	4/7/2024	Zirconium-95	1.59E+00	3.10E+00	9.61E+00	pCi/L	U
2204	689080001	10/9/2024	Zirconium-95	-2.01E+00	2.08E+00	6.14E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	650995003	1/8/2024	Actinium-228	1.87E+01	4.74E+00	1.50E+01	pCi/L	UI
2140	654188001	2/6/2024	Actinium-228	4.65E+00	1.06E+01	2.27E+01	pCi/L	U
2140	657417001	3/4/2024	Actinium-228	-2.06E+00	5.72E+00	1.77E+01	pCi/L	U
2140	660794002	4/4/2024	Actinium-228	-1.74E+00	5.46E+00	1.60E+01	pCi/L	U
2140	665205001	5/1/2024	Actinium-228	-1.26E+01	6.39E+00	1.83E+01	pCi/L	U
2140	669063002	5/28/2024	Actinium-228	9.81E+00	6.85E+00	2.19E+01	pCi/L	U
2140	672774003	6/25/2024	Actinium-228	-1.81E+00	3.81E+00	1.26E+01	pCi/L	U
2140	676803001	7/23/2024	Actinium-228	1.14E+00	6.30E+00	1.90E+01	pCi/L	U
2140	676803001	7/23/2024	Actinium-228	-6.32E+00	5.95E+00	1.68E+01	pCi/L	U
2140	681489001	8/20/2024	Actinium-228	7.57E+00	5.27E+00	1.59E+01	pCi/L	U
2140	685843001	9/16/2024	Actinium-228	9.92E-02	5.30E+00	1.59E+01	pCi/L	U
2140	690094001	10/15/2024	Actinium-228	-1.31E+00	3.02E+00	6.65E+00	pCi/L	U
2140	690094001	10/15/2024	Actinium-228	2.73E+00	3.53E+00	5.85E+00	pCi/L	U
2140	694912001	11/12/2024	Actinium-228	-5.16E+00	5.81E+00	1.85E+01	pCi/L	U
2140	699434002	12/10/2024	Actinium-228	1.46E+00	2.94E+00	7.28E+00	pCi/L	U
2140	650995003	1/8/2024	Americium-241	1.05E+01	5.54E+00	2.03E+01	pCi/L	U
2140	654188001	2/6/2024	Americium-241	-2.55E+00	1.17E+01	3.97E+01	pCi/L	U
2140	657417001	3/4/2024	Americium-241	2.35E+00	6.69E+00	2.34E+01	pCi/L	U
2140	660794002	4/4/2024	Americium-241	7.08E+00	1.19E+01	4.12E+01	pCi/L	U
2140	665205001	5/1/2024	Americium-241	-1.67E+00	9.86E+00	3.17E+01	pCi/L	U
2140	669063002	5/28/2024	Americium-241	-3.63E+00	6.57E+00	2.22E+01	pCi/L	U
2140	672774003	6/25/2024	Americium-241	1.62E+00	3.76E+00	1.18E+01	pCi/L	U
2140	676803001	7/23/2024	Americium-241	5.20E+00	1.41E+01	4.27E+01	pCi/L	U
2140	676803001	7/23/2024	Americium-241	-1.59E+01	7.76E+00	2.27E+01	pCi/L	U
2140	681489001	8/20/2024	Americium-241	-5.50E+00	9.62E+00	2.80E+01	pCi/L	U
2140	685843001	9/16/2024	Americium-241	-6.26E+00	1.03E+01	3.44E+01	pCi/L	U
2140	690094001	10/15/2024	Americium-241	1.21E+00	3.14E+00	9.66E+00	pCi/L	U
2140	690094001	10/15/2024	Americium-241	2.36E-02	1.90E+00	4.91E+00	pCi/L	U
2140	694912001	11/12/2024	Americium-241	3.82E+00	6.83E+00	2.41E+01	pCi/L	U
2140	699434002	12/10/2024	Americium-241	7.69E-01	1.44E+00	4.48E+00	pCi/L	U
2140	650995003	1/8/2024	Antimony-124	2.27E+00	2.54E+00	9.22E+00	pCi/L	U
2140	654188001	2/6/2024	Antimony-124	2.35E+00	2.21E+00	8.91E+00	pCi/L	U
2140	657417001	3/4/2024	Antimony-124	8.10E+00	3.66E+00	1.53E+01	pCi/L	U
2140	660794002	4/4/2024	Antimony-124	-4.45E+00	3.64E+00	9.52E+00	pCi/L	U
2140	665205001	5/1/2024	Antimony-124	-2.28E+00	2.92E+00	8.38E+00	pCi/L	U
2140	669063002	5/28/2024	Antimony-124	-6.21E+00	3.98E+00	1.10E+01	pCi/L	U
2140	672774003	6/25/2024	Antimony-124	-5.43E-01	2.46E+00	7.63E+00	pCi/L	U
2140	676803001	7/23/2024	Antimony-124	-1.75E-01	2.36E+00	7.55E+00	pCi/L	U
2140	676803001	7/23/2024	Antimony-124	2.82E+00	3.33E+00	1.24E+01	pCi/L	U
2140	681489001	8/20/2024	Antimony-124	5.00E-01	2.56E+00	8.68E+00	pCi/L	U
2140	685843001	9/16/2024	Antimony-124	-5.88E+00	2.18E+00	1.74E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	690094001	10/15/2024	Antimony-124	3.83E-01	1.23E+00	3.64E+00	pCi/L	U
2140	690094001	10/15/2024	Antimony-124	-4.72E-01	1.27E+00	4.06E+00	pCi/L	U
2140	694912001	11/12/2024	Antimony-124	7.18E+00	3.28E+00	1.39E+01	pCi/L	U
2140	699434002	12/10/2024	Antimony-124	4.18E-01	1.13E+00	3.77E+00	pCi/L	U
2140	650995003	1/8/2024	Antimony-125	6.42E+00	3.15E+00	8.84E+00	pCi/L	U
2140	654188001	2/6/2024	Antimony-125	7.25E+00	4.19E+00	1.30E+01	pCi/L	U
2140	657417001	3/4/2024	Antimony-125	-7.58E-01	3.45E+00	1.13E+01	pCi/L	U
2140	660794002	4/4/2024	Antimony-125	5.92E-01	3.57E+00	1.22E+01	pCi/L	U
2140	665205001	5/1/2024	Antimony-125	6.18E-01	3.83E+00	1.20E+01	pCi/L	U
2140	669063002	5/28/2024	Antimony-125	9.47E+00	4.37E+00	1.09E+01	pCi/L	U
2140	672774003	6/25/2024	Antimony-125	-2.22E+00	2.40E+00	7.35E+00	pCi/L	U
2140	676803001	7/23/2024	Antimony-125	5.07E+00	3.51E+00	1.18E+01	pCi/L	U
2140	676803001	7/23/2024	Antimony-125	-8.60E-01	3.20E+00	1.04E+01	pCi/L	U
2140	681489001	8/20/2024	Antimony-125	4.81E-01	2.67E+00	8.75E+00	pCi/L	U
2140	685843001	9/16/2024	Antimony-125	3.89E+00	2.75E+00	1.01E+01	pCi/L	U
2140	690094001	10/15/2024	Antimony-125	2.10E+00	1.15E+00	4.10E+00	pCi/L	U
2140	690094001	10/15/2024	Antimony-125	1.06E+00	1.13E+00	3.93E+00	pCi/L	U
2140	694912001	11/12/2024	Antimony-125	5.72E+00	2.68E+00	9.62E+00	pCi/L	U
2140	699434002	12/10/2024	Antimony-125	1.76E+00	1.20E+00	4.24E+00	pCi/L	U
2140	650995003	1/8/2024	Barium-140	1.24E+00	4.72E+00	1.61E+01	pCi/L	U
2140	654188001	2/6/2024	Barium-140	7.30E+00	7.43E+00	2.66E+01	pCi/L	U
2140	657417001	3/4/2024	Barium-140	5.96E+00	6.72E+00	2.37E+01	pCi/L	U
2140	660794002	4/4/2024	Barium-140	-2.48E-01	6.67E+00	2.21E+01	pCi/L	U
2140	665205001	5/1/2024	Barium-140	8.53E+00	7.67E+00	2.47E+01	pCi/L	U
2140	669063002	5/28/2024	Barium-140	6.03E+00	6.38E+00	2.23E+01	pCi/L	U
2140	672774003	6/25/2024	Barium-140	-1.03E+01	6.60E+00	1.78E+01	pCi/L	U
2140	676803001	7/23/2024	Barium-140	-2.49E-01	5.76E+00	1.86E+01	pCi/L	U
2140	676803001	7/23/2024	Barium-140	5.30E+00	7.34E+00	2.55E+01	pCi/L	U
2140	681489001	8/20/2024	Barium-140	-8.85E-01	5.66E+00	1.78E+01	pCi/L	U
2140	685843001	9/16/2024	Barium-140	5.04E+00	6.53E+00	2.29E+01	pCi/L	U
2140	690094001	10/15/2024	Barium-140	-5.32E-01	3.77E+00	1.24E+01	pCi/L	U
2140	690094001	10/15/2024	Barium-140	1.26E+00	3.93E+00	1.32E+01	pCi/L	U
2140	694912001	11/12/2024	Barium-140	-2.89E+00	7.14E+00	1.97E+01	pCi/L	U
2140	699434002	12/10/2024	Barium-140	-1.46E+00	3.44E+00	1.11E+01	pCi/L	U
2140	650995003	1/8/2024	Beryllium-7	-5.49E+00	7.42E+00	2.39E+01	pCi/L	U
2140	654188001	2/6/2024	Beryllium-7	-2.35E+00	1.16E+01	3.56E+01	pCi/L	U
2140	657417001	3/4/2024	Beryllium-7	2.92E-01	1.03E+01	3.07E+01	pCi/L	U
2140	660794002	4/4/2024	Beryllium-7	-3.08E+00	1.02E+01	3.32E+01	pCi/L	U
2140	665205001	5/1/2024	Beryllium-7	1.33E+01	1.30E+01	4.49E+01	pCi/L	U
2140	669063002	5/28/2024	Beryllium-7	2.21E+01	1.11E+01	4.10E+01	pCi/L	U
2140	672774003	6/25/2024	Beryllium-7	7.57E+00	9.03E+00	3.16E+01	pCi/L	U
2140	676803001	7/23/2024	Beryllium-7	1.00E+01	8.45E+00	3.07E+01	pCi/L	U
2140	676803001	7/23/2024	Beryllium-7	1.08E-01	1.22E+01	4.03E+01	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	681489001	8/20/2024	Beryllium-7	-6.64E+00	1.01E+01	2.72E+01	pCi/L	U
2140	685843001	9/16/2024	Beryllium-7	1.12E+01	8.62E+00	3.14E+01	pCi/L	U
2140	690094001	10/15/2024	Beryllium-7	1.18E+00	4.40E+00	1.47E+01	pCi/L	U
2140	690094001	10/15/2024	Beryllium-7	-1.77E+00	4.40E+00	1.45E+01	pCi/L	U
2140	694912001	11/12/2024	Beryllium-7	5.33E+00	1.04E+01	3.55E+01	pCi/L	U
2140	699434002	12/10/2024	Beryllium-7	6.98E-01	4.33E+00	1.45E+01	pCi/L	U
2140	690097002	10/15/2024	Beta	2.14E+00			pCi/L	
2140	650995003	1/8/2024	Bismuth-214	2.73E+00	2.26E+00	7.06E+00	pCi/L	U
2140	654188001	2/6/2024	Bismuth-214	1.82E+01	5.33E+00	1.36E+01	pCi/L	UI
2140	657417001	3/4/2024	Bismuth-214	1.06E-01	3.24E+00	1.06E+01	pCi/L	U
2140	660794002	4/4/2024	Bismuth-214	-2.59E+00	3.45E+00	1.01E+01	pCi/L	U
2140	665205001	5/1/2024	Bismuth-214	7.63E-01	2.95E+00	1.02E+01	pCi/L	U
2140	669063002	5/28/2024	Bismuth-214	-6.64E+00	3.31E+00	9.84E+00	pCi/L	U
2140	672774003	6/25/2024	Bismuth-214	-6.53E-01	2.75E+00	8.07E+00	pCi/L	U
2140	676803001	7/23/2024	Bismuth-214	1.94E+00	3.00E+00	1.03E+01	pCi/L	U
2140	676803001	7/23/2024	Bismuth-214	4.83E+00	5.12E+00	1.14E+01	pCi/L	U
2140	681489001	8/20/2024	Bismuth-214	1.79E+00	2.48E+00	8.10E+00	pCi/L	U
2140	685843001	9/16/2024	Bismuth-214	-9.10E-01	2.91E+00	8.69E+00	pCi/L	U
2140	690094001	10/15/2024	Bismuth-214	-1.03E+00	1.78E+00	3.65E+00	pCi/L	U
2140	690094001	10/15/2024	Bismuth-214	2.42E-01	2.36E+00	3.83E+00	pCi/L	U
2140	694912001	11/12/2024	Bismuth-214	-1.49E+00	3.07E+00	9.60E+00	pCi/L	U
2140	699434002	12/10/2024	Bismuth-214	4.10E+00	2.29E+00	4.40E+00	pCi/L	U
2140	650995003	1/8/2024	Cerium-141	5.19E-01	1.62E+00	4.98E+00	pCi/L	U
2140	654188001	2/6/2024	Cerium-141	-1.28E+00	2.49E+00	7.96E+00	pCi/L	U
2140	657417001	3/4/2024	Cerium-141	-1.10E+00	2.02E+00	6.41E+00	pCi/L	U
2140	660794002	4/4/2024	Cerium-141	-1.29E+00	2.56E+00	8.13E+00	pCi/L	U
2140	665205001	5/1/2024	Cerium-141	1.96E+00	3.68E+00	8.19E+00	pCi/L	U
2140	669063002	5/28/2024	Cerium-141	-1.72E-01	2.27E+00	6.82E+00	pCi/L	U
2140	672774003	6/25/2024	Cerium-141	-1.11E+00	2.08E+00	5.87E+00	pCi/L	U
2140	676803001	7/23/2024	Cerium-141	9.50E-01	2.85E+00	8.50E+00	pCi/L	U
2140	676803001	7/23/2024	Cerium-141	-2.24E+00	2.16E+00	6.62E+00	pCi/L	U
2140	681489001	8/20/2024	Cerium-141	5.62E+00	3.28E+00	5.45E+00	pCi/L	UI
2140	685843001	9/16/2024	Cerium-141	-6.52E-01	2.04E+00	6.61E+00	pCi/L	U
2140	690094001	10/15/2024	Cerium-141	-3.00E+00	1.47E+00	2.93E+00	pCi/L	U
2140	690094001	10/15/2024	Cerium-141	-2.88E+00	1.31E+00	2.91E+00	pCi/L	U
2140	694912001	11/12/2024	Cerium-141	-2.00E+00	2.33E+00	7.12E+00	pCi/L	U
2140	699434002	12/10/2024	Cerium-141	-2.30E-01	1.00E+00	3.19E+00	pCi/L	U
2140	650995003	1/8/2024	Cerium-144	-1.65E+00	5.73E+00	1.86E+01	pCi/L	U
2140	654188001	2/6/2024	Cerium-144	-2.90E+00	8.78E+00	2.85E+01	pCi/L	U
2140	657417001	3/4/2024	Cerium-144	-5.42E+00	6.59E+00	2.07E+01	pCi/L	U
2140	660794002	4/4/2024	Cerium-144	2.05E+00	8.81E+00	2.70E+01	pCi/L	U
2140	665205001	5/1/2024	Cerium-144	3.97E+00	8.88E+00	2.84E+01	pCi/L	U
2140	669063002	5/28/2024	Cerium-144	5.45E+00	8.26E+00	2.60E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	672774003	6/25/2024	Cerium-144	-9.43E+00	6.48E+00	1.90E+01	pCi/L	U
2140	676803001	7/23/2024	Cerium-144	-1.36E+01	9.67E+00	2.79E+01	pCi/L	U
2140	676803001	7/23/2024	Cerium-144	-6.61E+00	7.52E+00	2.34E+01	pCi/L	U
2140	681489001	8/20/2024	Cerium-144	2.17E+01	9.42E+00	2.18E+01	pCi/L	U
2140	685843001	9/16/2024	Cerium-144	-1.02E+01	7.87E+00	2.25E+01	pCi/L	U
2140	690094001	10/15/2024	Cerium-144	-2.26E+00	3.34E+00	1.05E+01	pCi/L	U
2140	690094001	10/15/2024	Cerium-144	-5.06E-02	3.15E+00	1.02E+01	pCi/L	U
2140	694912001	11/12/2024	Cerium-144	4.33E+00	7.33E+00	2.47E+01	pCi/L	U
2140	699434002	12/10/2024	Cerium-144	-7.12E-01	3.32E+00	1.06E+01	pCi/L	U
2140	650995003	1/8/2024	Cesium-134	4.94E-01	9.75E-01	3.02E+00	pCi/L	U
2140	654188001	2/6/2024	Cesium-134	2.20E+00	2.09E+00	5.23E+00	pCi/L	U
2140	657417001	3/4/2024	Cesium-134	2.68E-01	1.17E+00	3.65E+00	pCi/L	U
2140	660794002	4/4/2024	Cesium-134	6.85E-01	1.50E+00	5.07E+00	pCi/L	U
2140	665205001	5/1/2024	Cesium-134	1.15E+00	1.35E+00	4.85E+00	pCi/L	U
2140	669063002	5/28/2024	Cesium-134	-2.56E-01	1.52E+00	4.05E+00	pCi/L	U
2140	672774003	6/25/2024	Cesium-134	1.35E+00	9.74E-01	3.59E+00	pCi/L	U
2140	676803001	7/23/2024	Cesium-134	-6.45E-01	1.19E+00	3.49E+00	pCi/L	U
2140	676803001	7/23/2024	Cesium-134	1.20E+00	1.48E+00	5.35E+00	pCi/L	U
2140	681489001	8/20/2024	Cesium-134	-5.83E-01	1.08E+00	3.45E+00	pCi/L	U
2140	685843001	9/16/2024	Cesium-134	-1.05E+00	1.09E+00	3.17E+00	pCi/L	U
2140	690094001	10/15/2024	Cesium-134	1.03E+00	5.14E-01	1.82E+00	pCi/L	U
2140	690094001	10/15/2024	Cesium-134	2.23E+00	8.13E-01	1.83E+00	pCi/L	UI
2140	694912001	11/12/2024	Cesium-134	-3.06E-01	1.24E+00	3.55E+00	pCi/L	U
2140	699434002	12/10/2024	Cesium-134	4.48E-01	5.61E-01	1.87E+00	pCi/L	U
2140	650995003	1/8/2024	Cesium-137	5.65E-01	9.09E-01	3.15E+00	pCi/L	U
2140	654188001	2/6/2024	Cesium-137	-6.72E-01	1.19E+00	3.66E+00	pCi/L	U
2140	657417001	3/4/2024	Cesium-137	2.16E+00	1.40E+00	5.09E+00	pCi/L	U
2140	660794002	4/4/2024	Cesium-137	1.62E+00	1.04E+00	3.98E+00	pCi/L	U
2140	665205001	5/1/2024	Cesium-137	3.09E-01	1.14E+00	3.95E+00	pCi/L	U
2140	669063002	5/28/2024	Cesium-137	2.23E-01	1.28E+00	4.15E+00	pCi/L	U
2140	672774003	6/25/2024	Cesium-137	-1.88E+00	1.16E+00	3.09E+00	pCi/L	U
2140	676803001	7/23/2024	Cesium-137	2.24E+00	1.32E+00	4.86E+00	pCi/L	U
2140	676803001	7/23/2024	Cesium-137	2.88E+00	1.26E+00	4.94E+00	pCi/L	U
2140	681489001	8/20/2024	Cesium-137	1.27E-01	1.14E+00	3.77E+00	pCi/L	U
2140	685843001	9/16/2024	Cesium-137	1.53E-01	1.41E+00	3.93E+00	pCi/L	U
2140	690094001	10/15/2024	Cesium-137	1.32E+00	4.69E-01	1.71E+00	pCi/L	U
2140	690094001	10/15/2024	Cesium-137	-2.49E-01	4.97E-01	1.40E+00	pCi/L	U
2140	694912001	11/12/2024	Cesium-137	1.47E+00	1.36E+00	4.77E+00	pCi/L	U
2140	699434002	12/10/2024	Cesium-137	4.85E-01	5.27E-01	1.62E+00	pCi/L	U
2140	650995003	1/8/2024	Chromium-51	7.14E+00	9.37E+00	3.07E+01	pCi/L	U
2140	654188001	2/6/2024	Chromium-51	-1.95E+01	1.43E+01	3.85E+01	pCi/L	U
2140	657417001	3/4/2024	Chromium-51	2.84E+01	1.12E+01	4.36E+01	pCi/L	U
2140	660794002	4/4/2024	Chromium-51	9.42E+00	1.26E+01	4.51E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	665205001	5/1/2024	Chromium-51	-6.08E+00	1.24E+01	3.98E+01	pCi/L	U
2140	669063002	5/28/2024	Chromium-51	-7.05E-01	1.07E+01	3.62E+01	pCi/L	U
2140	672774003	6/25/2024	Chromium-51	3.86E+00	9.74E+00	3.36E+01	pCi/L	U
2140	676803001	7/23/2024	Chromium-51	4.89E-01	1.16E+01	3.88E+01	pCi/L	U
2140	676803001	7/23/2024	Chromium-51	7.33E+00	1.22E+01	4.29E+01	pCi/L	U
2140	681489001	8/20/2024	Chromium-51	1.94E+00	1.01E+01	3.36E+01	pCi/L	U
2140	685843001	9/16/2024	Chromium-51	-3.59E+00	1.10E+01	3.36E+01	pCi/L	U
2140	690094001	10/15/2024	Chromium-51	-2.10E+00	5.10E+00	1.71E+01	pCi/L	U
2140	690094001	10/15/2024	Chromium-51	3.23E+00	5.21E+00	1.81E+01	pCi/L	U
2140	694912001	11/12/2024	Chromium-51	-1.62E-01	1.03E+01	3.49E+01	pCi/L	U
2140	699434002	12/10/2024	Chromium-51	1.86E+00	5.08E+00	1.74E+01	pCi/L	U
2140	650995003	1/8/2024	Cobalt-57	-1.56E+00	8.76E-01	2.25E+00	pCi/L	U
2140	654188001	2/6/2024	Cobalt-57	-1.04E+00	1.13E+00	3.55E+00	pCi/L	U
2140	657417001	3/4/2024	Cobalt-57	-2.09E+00	9.87E-01	2.91E+00	pCi/L	U
2140	660794002	4/4/2024	Cobalt-57	-1.57E-01	1.28E+00	3.86E+00	pCi/L	U
2140	665205001	5/1/2024	Cobalt-57	-4.00E-01	1.20E+00	3.70E+00	pCi/L	U
2140	669063002	5/28/2024	Cobalt-57	2.81E+00	6.59E-01	3.68E+00	pCi/L	U
2140	672774003	6/25/2024	Cobalt-57	1.31E+00	8.74E-01	2.99E+00	pCi/L	U
2140	676803001	7/23/2024	Cobalt-57	-2.04E+00	1.25E+00	3.56E+00	pCi/L	U
2140	676803001	7/23/2024	Cobalt-57	-2.43E-01	1.03E+00	3.35E+00	pCi/L	U
2140	681489001	8/20/2024	Cobalt-57	-9.01E-01	9.25E-01	2.78E+00	pCi/L	U
2140	685843001	9/16/2024	Cobalt-57	1.62E-01	8.70E-01	2.91E+00	pCi/L	U
2140	690094001	10/15/2024	Cobalt-57	5.38E-02	4.18E-01	1.35E+00	pCi/L	U
2140	690094001	10/15/2024	Cobalt-57	-7.25E-05	4.04E-01	1.31E+00	pCi/L	U
2140	694912001	11/12/2024	Cobalt-57	5.39E-01	1.02E+00	3.43E+00	pCi/L	U
2140	699434002	12/10/2024	Cobalt-57	-2.14E-01	4.30E-01	1.37E+00	pCi/L	U
2140	650995003	1/8/2024	Cobalt-58	8.38E-01	3.64E-01	1.70E+00	pCi/L	U
2140	654188001	2/6/2024	Cobalt-58	-1.13E-01	1.38E+00	4.41E+00	pCi/L	U
2140	657417001	3/4/2024	Cobalt-58	-8.99E-01	1.12E+00	3.46E+00	pCi/L	U
2140	660794002	4/4/2024	Cobalt-58	-1.79E+00	1.70E+00	4.16E+00	pCi/L	U
2140	665205001	5/1/2024	Cobalt-58	1.06E+00	1.23E+00	4.43E+00	pCi/L	U
2140	669063002	5/28/2024	Cobalt-58	1.04E+00	1.43E+00	4.56E+00	pCi/L	U
2140	672774003	6/25/2024	Cobalt-58	-6.68E-01	1.15E+00	3.41E+00	pCi/L	U
2140	676803001	7/23/2024	Cobalt-58	-9.90E-01	1.44E+00	3.62E+00	pCi/L	U
2140	676803001	7/23/2024	Cobalt-58	-2.41E+00	1.24E+00	3.28E+00	pCi/L	U
2140	681489001	8/20/2024	Cobalt-58	-5.35E-01	1.02E+00	3.26E+00	pCi/L	U
2140	685843001	9/16/2024	Cobalt-58	-7.65E-01	9.56E-01	2.81E+00	pCi/L	U
2140	690094001	10/15/2024	Cobalt-58	1.78E-01	4.45E-01	1.46E+00	pCi/L	U
2140	690094001	10/15/2024	Cobalt-58	-1.23E-02	5.31E-01	1.53E+00	pCi/L	U
2140	694912001	11/12/2024	Cobalt-58	-3.59E-01	1.34E+00	4.39E+00	pCi/L	U
2140	699434002	12/10/2024	Cobalt-58	-6.13E-01	5.38E-01	1.60E+00	pCi/L	U
2140	650995003	1/8/2024	Cobalt-60	-3.84E-01	6.41E-01	1.95E+00	pCi/L	U
2140	654188001	2/6/2024	Cobalt-60	1.26E+00	1.66E+00	5.98E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	657417001	3/4/2024	Cobalt-60	8.60E-01	1.22E+00	4.36E+00	pCi/L	U
2140	660794002	4/4/2024	Cobalt-60	-1.55E+00	1.31E+00	4.23E+00	pCi/L	U
2140	665205001	5/1/2024	Cobalt-60	-1.07E+00	1.05E+00	2.62E+00	pCi/L	U
2140	669063002	5/28/2024	Cobalt-60	-1.66E+00	1.51E+00	4.25E+00	pCi/L	U
2140	672774003	6/25/2024	Cobalt-60	9.25E-01	1.13E+00	4.06E+00	pCi/L	U
2140	676803001	7/23/2024	Cobalt-60	1.63E+00	1.03E+00	4.21E+00	pCi/L	U
2140	676803001	7/23/2024	Cobalt-60	9.44E-01	1.00E+00	3.81E+00	pCi/L	U
2140	681489001	8/20/2024	Cobalt-60	1.05E+00	8.76E-01	3.27E+00	pCi/L	U
2140	685843001	9/16/2024	Cobalt-60	1.19E+00	9.01E-01	3.50E+00	pCi/L	U
2140	690094001	10/15/2024	Cobalt-60	1.04E-01	4.75E-01	1.60E+00	pCi/L	U
2140	690094001	10/15/2024	Cobalt-60	4.27E-01	4.65E-01	1.65E+00	pCi/L	U
2140	694912001	11/12/2024	Cobalt-60	-1.07E+00	1.64E+00	3.79E+00	pCi/L	U
2140	699434002	12/10/2024	Cobalt-60	6.56E-01	4.99E-01	1.64E+00	pCi/L	U
2140	650995003	1/8/2024	Iodine-131	-4.74E-01	2.24E-01	8.36E-01	pCi/L	U
2140	654188001	2/6/2024	Iodine-131	1.37E-01	2.26E-01	7.33E-01	pCi/L	U
2140	657417001	3/4/2024	Iodine-131	-4.42E-01	2.09E-01	7.58E-01	pCi/L	U
2140	660794002	4/4/2024	Iodine-131	-2.82E-01	2.45E-01	8.62E-01	pCi/L	U
2140	665205001	5/1/2024	Iodine-131	2.29E-01	2.74E-01	8.77E-01	pCi/L	U
2140	669063002	5/28/2024	Iodine-131	5.79E-01	2.54E-01	7.83E-01	pCi/L	U
2140	672774003	6/25/2024	Iodine-131	3.12E-01	2.86E-01	9.21E-01	pCi/L	U
2140	676803001	7/23/2024	Iodine-131	1.55E+00	2.49E+00	8.04E+00	pCi/L	U
2140	681489001	8/20/2024	Iodine-131	-8.42E-02	2.74E-01	9.05E-01	pCi/L	U
2140	685843001	9/16/2024	Iodine-131	-4.79E-01	2.11E-01	7.72E-01	pCi/L	U
2140	690094001	10/15/2024	Iodine-131	1.30E+00	1.82E+00	6.30E+00	pCi/L	U
2140	690097002	10/15/2024	Iodine-131	2.81E-01			pCi/L	
2140	694912001	11/12/2024	Iodine-131	-5.65E-01	2.31E+00	7.63E+00	pCi/L	U
2140	694912001	11/12/2024	Iodine-131	-8.66E-02	2.30E-01	7.78E-01	pCi/L	U
2140	699434002	12/10/2024	Iodine-131	6.57E-01	1.39E+00	4.77E+00	pCi/L	U
2140	699434002	12/10/2024	Iodine-131	-1.54E-01	2.57E-01	8.60E-01	pCi/L	U
2140	650995003	1/8/2024	Iron-59	-2.45E+00	2.14E+00	5.93E+00	pCi/L	U
2140	654188001	2/6/2024	Iron-59	5.39E+00	2.42E+00	8.88E+00	pCi/L	U
2140	657417001	3/4/2024	Iron-59	3.15E+00	2.58E+00	9.68E+00	pCi/L	U
2140	660794002	4/4/2024	Iron-59	1.46E-01	2.12E+00	7.21E+00	pCi/L	U
2140	665205001	5/1/2024	Iron-59	1.94E+00	3.42E+00	1.17E+01	pCi/L	U
2140	669063002	5/28/2024	Iron-59	-3.63E+00	2.83E+00	7.13E+00	pCi/L	U
2140	672774003	6/25/2024	Iron-59	-3.77E+00	1.86E+00	4.36E+00	pCi/L	U
2140	676803001	7/23/2024	Iron-59	7.89E-01	2.07E+00	7.26E+00	pCi/L	U
2140	676803001	7/23/2024	Iron-59	-1.99E+00	2.41E+00	6.95E+00	pCi/L	U
2140	681489001	8/20/2024	Iron-59	-1.98E-01	2.03E+00	6.53E+00	pCi/L	U
2140	685843001	9/16/2024	Iron-59	2.13E+00	2.16E+00	7.95E+00	pCi/L	U
2140	690094001	10/15/2024	Iron-59	9.77E-01	1.01E+00	3.59E+00	pCi/L	U
2140	690094001	10/15/2024	Iron-59	-1.41E+00	1.02E+00	3.19E+00	pCi/L	U
2140	694912001	11/12/2024	Iron-59	1.05E+00	2.33E+00	8.09E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	699434002	12/10/2024	Iron-59	-2.58E-01	9.65E-01	3.18E+00	pCi/L	U
2140	650995003	1/8/2024	Lanthanum-140	-3.42E-02	1.44E+00	4.76E+00	pCi/L	U
2140	654188001	2/6/2024	Lanthanum-140	-2.47E+00	2.95E+00	8.53E+00	pCi/L	U
2140	657417001	3/4/2024	Lanthanum-140	2.66E-02	3.09E+00	9.06E+00	pCi/L	U
2140	660794002	4/4/2024	Lanthanum-140	-4.91E+00	2.56E+00	5.23E+00	pCi/L	U
2140	665205001	5/1/2024	Lanthanum-140	7.17E-01	3.19E+00	1.09E+01	pCi/L	U
2140	669063002	5/28/2024	Lanthanum-140	2.00E+00	2.22E+00	8.15E+00	pCi/L	U
2140	672774003	6/25/2024	Lanthanum-140	2.09E+00	1.88E+00	7.14E+00	pCi/L	U
2140	676803001	7/23/2024	Lanthanum-140	9.95E-01	1.74E+00	6.25E+00	pCi/L	U
2140	676803001	7/23/2024	Lanthanum-140	-3.41E+00	2.42E+00	6.21E+00	pCi/L	U
2140	681489001	8/20/2024	Lanthanum-140	4.42E-01	1.84E+00	6.30E+00	pCi/L	U
2140	685843001	9/16/2024	Lanthanum-140	3.69E+00	2.28E+00	8.86E+00	pCi/L	U
2140	690094001	10/15/2024	Lanthanum-140	7.34E-01	1.11E+00	3.83E+00	pCi/L	U
2140	690094001	10/15/2024	Lanthanum-140	-1.51E-01	1.29E+00	4.22E+00	pCi/L	U
2140	694912001	11/12/2024	Lanthanum-140	-1.78E+00	2.15E+00	6.25E+00	pCi/L	U
2140	699434002	12/10/2024	Lanthanum-140	-2.77E+00	1.24E+00	3.30E+00	pCi/L	U
2140	650995003	1/8/2024	Lead-210	-5.30E+02	2.02E+02	5.66E+02	pCi/L	U
2140	654188001	2/6/2024	Lead-210	1.92E+02	6.57E+02	2.05E+03	pCi/L	U
2140	657417001	3/4/2024	Lead-210	4.41E+02	2.02E+02	7.78E+02	pCi/L	U
2140	660794002	4/4/2024	Lead-210	-7.27E+02	6.12E+02	1.83E+03	pCi/L	U
2140	665205001	5/1/2024	Lead-210	4.85E+00	3.40E+02	1.04E+03	pCi/L	U
2140	669063002	5/28/2024	Lead-210	4.13E+02	2.81E+02	5.56E+02	pCi/L	U
2140	672774003	6/25/2024	Lead-210	-9.52E+01	8.99E+01	2.71E+02	pCi/L	U
2140	676803001	7/23/2024	Lead-210	-4.61E+01	7.02E+02	2.25E+03	pCi/L	U
2140	676803001	7/23/2024	Lead-210	6.57E+01	2.04E+02	7.20E+02	pCi/L	U
2140	681489001	8/20/2024	Lead-210	1.27E+02	2.83E+02	9.41E+02	pCi/L	U
2140	685843001	9/16/2024	Lead-210	1.50E+02	5.37E+02	1.59E+03	pCi/L	U
2140	690094001	10/15/2024	Lead-210	-1.64E+02	1.16E+02	2.84E+02	pCi/L	U
2140	690094001	10/15/2024	Lead-210	-2.52E+01	3.01E+01	6.43E+01	pCi/L	U
2140	694912001	11/12/2024	Lead-210	-8.90E+01	2.08E+02	7.06E+02	pCi/L	U
2140	699434002	12/10/2024	Lead-210	-2.41E+01	2.14E+01	5.34E+01	pCi/L	U
2140	650995003	1/8/2024	Lead-212	2.80E+00	2.96E+00	6.80E+00	pCi/L	U
2140	654188001	2/6/2024	Lead-212	1.57E+00	3.12E+00	1.00E+01	pCi/L	U
2140	657417001	3/4/2024	Lead-212	-2.98E+00	2.28E+00	7.19E+00	pCi/L	U
2140	660794002	4/4/2024	Lead-212	3.57E+00	4.72E+00	1.11E+01	pCi/L	U
2140	665205001	5/1/2024	Lead-212	-4.63E+00	2.96E+00	9.50E+00	pCi/L	U
2140	669063002	5/28/2024	Lead-212	-7.19E-01	2.88E+00	8.57E+00	pCi/L	U
2140	672774003	6/25/2024	Lead-212	4.40E+00	2.66E+00	7.41E+00	pCi/L	U
2140	676803001	7/23/2024	Lead-212	6.04E+00	5.26E+00	9.40E+00	pCi/L	U
2140	676803001	7/23/2024	Lead-212	4.15E+00	3.00E+00	9.27E+00	pCi/L	U
2140	681489001	8/20/2024	Lead-212	-9.61E-01	2.66E+00	8.16E+00	pCi/L	U
2140	685843001	9/16/2024	Lead-212	1.74E-01	2.49E+00	7.67E+00	pCi/L	U
2140	690094001	10/15/2024	Lead-212	1.86E-01	1.89E+00	2.92E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	690094001	10/15/2024	Lead-212	-1.03E+00	1.33E+00	3.63E+00	pCi/L	U
2140	694912001	11/12/2024	Lead-212	2.45E+00	4.19E+00	8.13E+00	pCi/L	U
2140	699434002	12/10/2024	Lead-212	-7.09E-01	1.43E+00	3.81E+00	pCi/L	U
2140	650995003	1/8/2024	Lead-214	-1.17E+00	2.56E+00	6.53E+00	pCi/L	U
2140	654188001	2/6/2024	Lead-214	1.33E+01	3.69E+00	1.28E+01	pCi/L	UI
2140	657417001	3/4/2024	Lead-214	-8.39E-01	3.03E+00	9.83E+00	pCi/L	U
2140	660794002	4/4/2024	Lead-214	-3.13E-01	3.48E+00	1.13E+01	pCi/L	U
2140	665205001	5/1/2024	Lead-214	6.46E+00	3.42E+00	1.14E+01	pCi/L	U
2140	669063002	5/28/2024	Lead-214	-3.78E+00	3.29E+00	9.90E+00	pCi/L	U
2140	672774003	6/25/2024	Lead-214	2.13E+00	2.49E+00	8.18E+00	pCi/L	U
2140	676803001	7/23/2024	Lead-214	-5.59E+00	3.52E+00	9.50E+00	pCi/L	U
2140	676803001	7/23/2024	Lead-214	8.69E+00	5.16E+00	1.18E+01	pCi/L	U
2140	681489001	8/20/2024	Lead-214	6.90E+00	2.46E+00	9.15E+00	pCi/L	U
2140	685843001	9/16/2024	Lead-214	8.93E+00	4.10E+00	8.34E+00	pCi/L	UI
2140	690094001	10/15/2024	Lead-214	-1.74E+00	1.63E+00	3.71E+00	pCi/L	U
2140	690094001	10/15/2024	Lead-214	6.04E-02	2.38E+00	3.91E+00	pCi/L	U
2140	694912001	11/12/2024	Lead-214	9.38E+00	6.81E+00	1.10E+01	pCi/L	U
2140	699434002	12/10/2024	Lead-214	4.86E+00	2.29E+00	4.43E+00	pCi/L	UI
2140	650995003	1/8/2024	Manganese-54	6.70E-01	6.26E-01	1.92E+00	pCi/L	U
2140	654188001	2/6/2024	Manganese-54	-6.86E-01	1.51E+00	4.31E+00	pCi/L	U
2140	657417001	3/4/2024	Manganese-54	-6.96E-01	1.09E+00	3.45E+00	pCi/L	U
2140	660794002	4/4/2024	Manganese-54	1.47E-01	1.22E+00	3.96E+00	pCi/L	U
2140	665205001	5/1/2024	Manganese-54	-9.12E-01	1.46E+00	3.90E+00	pCi/L	U
2140	669063002	5/28/2024	Manganese-54	1.29E+00	1.40E+00	4.53E+00	pCi/L	U
2140	672774003	6/25/2024	Manganese-54	6.15E-01	6.95E-01	2.42E+00	pCi/L	U
2140	676803001	7/23/2024	Manganese-54	-3.39E-01	1.25E+00	4.01E+00	pCi/L	U
2140	676803001	7/23/2024	Manganese-54	3.74E-01	1.23E+00	4.26E+00	pCi/L	U
2140	681489001	8/20/2024	Manganese-54	-1.19E+00	8.71E-01	2.51E+00	pCi/L	U
2140	685843001	9/16/2024	Manganese-54	-6.97E-01	9.80E-01	2.93E+00	pCi/L	U
2140	690094001	10/15/2024	Manganese-54	2.31E-01	4.41E-01	1.45E+00	pCi/L	U
2140	690094001	10/15/2024	Manganese-54	5.46E-01	4.65E-01	1.60E+00	pCi/L	U
2140	694912001	11/12/2024	Manganese-54	4.14E-01	1.32E+00	4.56E+00	pCi/L	U
2140	699434002	12/10/2024	Manganese-54	-4.21E-01	5.62E-01	1.72E+00	pCi/L	U
2140	650995003	1/8/2024	Molybdenum-99	2.11E+02	1.02E+02	3.90E+02	pCi/L	U
2140	654188001	2/6/2024	Molybdenum-99	9.27E+01	7.92E+01	2.93E+02	pCi/L	U
2140	657417001	3/4/2024	Molybdenum-99	1.85E+02	8.72E+01	3.38E+02	pCi/L	U
2140	660794002	4/4/2024	Molybdenum-99	-1.14E+02	1.52E+02	4.55E+02	pCi/L	U
2140	665205001	5/1/2024	Molybdenum-99	-2.12E+01	9.40E+01	3.09E+02	pCi/L	U
2140	669063002	5/28/2024	Molybdenum-99	-1.02E+02	6.73E+01	1.99E+02	pCi/L	U
2140	672774003	6/25/2024	Molybdenum-99	-8.47E+01	1.23E+02	3.60E+02	pCi/L	U
2140	676803001	7/23/2024	Molybdenum-99	1.43E+02	5.88E+01	2.29E+02	pCi/L	U
2140	676803001	7/23/2024	Molybdenum-99	7.12E+01	1.27E+02	4.24E+02	pCi/L	U
2140	681489001	8/20/2024	Molybdenum-99	6.46E+01	5.73E+01	2.08E+02	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	685843001	9/16/2024	Molybdenum-99	-1.17E+01	1.27E+02	4.09E+02	pCi/L	U
2140	690094001	10/15/2024	Molybdenum-99	1.66E+02	1.64E+02	5.57E+02	pCi/L	U
2140	690094001	10/15/2024	Molybdenum-99	-1.77E+02	2.19E+02	6.79E+02	pCi/L	U
2140	694912001	11/12/2024	Molybdenum-99	-7.51E+01	6.46E+01	1.93E+02	pCi/L	U
2140	699434002	12/10/2024	Molybdenum-99	-8.90E+01	1.33E+02	4.11E+02	pCi/L	U
2140	650995003	1/8/2024	Niobium-95	4.40E-01	9.43E-01	2.91E+00	pCi/L	U
2140	654188001	2/6/2024	Niobium-95	5.59E-01	1.12E+00	3.85E+00	pCi/L	U
2140	657417001	3/4/2024	Niobium-95	1.79E-01	1.14E+00	3.69E+00	pCi/L	U
2140	660794002	4/4/2024	Niobium-95	1.71E+00	1.48E+00	5.27E+00	pCi/L	U
2140	665205001	5/1/2024	Niobium-95	-2.75E+00	1.37E+00	3.76E+00	pCi/L	U
2140	669063002	5/28/2024	Niobium-95	1.55E+00	1.18E+00	4.39E+00	pCi/L	U
2140	672774003	6/25/2024	Niobium-95	-5.77E-01	1.43E+00	3.84E+00	pCi/L	U
2140	676803001	7/23/2024	Niobium-95	-3.09E-01	1.44E+00	4.19E+00	pCi/L	U
2140	676803001	7/23/2024	Niobium-95	1.45E+00	9.81E-01	3.88E+00	pCi/L	U
2140	681489001	8/20/2024	Niobium-95	6.80E-01	1.19E+00	4.13E+00	pCi/L	U
2140	685843001	9/16/2024	Niobium-95	4.30E+00	1.22E+00	3.04E+00	pCi/L	UI
2140	690094001	10/15/2024	Niobium-95	9.44E-01	5.01E-01	1.76E+00	pCi/L	U
2140	690094001	10/15/2024	Niobium-95	-2.76E-02	5.41E-01	1.75E+00	pCi/L	U
2140	694912001	11/12/2024	Niobium-95	4.19E-01	1.17E+00	4.08E+00	pCi/L	U
2140	699434002	12/10/2024	Niobium-95	-2.48E-01	6.41E-01	1.78E+00	pCi/L	U
2140	650995003	1/8/2024	Potassium-40	-2.54E+01	1.47E+01	4.43E+01	pCi/L	U
2140	654188001	2/6/2024	Potassium-40	4.47E+01	2.52E+01	3.13E+01	pCi/L	UI
2140	657417001	3/4/2024	Potassium-40	8.00E+00	1.91E+01	6.67E+01	pCi/L	U
2140	660794002	4/4/2024	Potassium-40	-1.95E+01	1.75E+01	6.12E+01	pCi/L	U
2140	665205001	5/1/2024	Potassium-40	-1.43E+01	1.74E+01	5.34E+01	pCi/L	U
2140	669063002	5/28/2024	Potassium-40	2.27E+00	1.86E+01	3.76E+01	pCi/L	U
2140	672774003	6/25/2024	Potassium-40	-1.15E-01	1.25E+01	4.68E+01	pCi/L	U
2140	676803001	7/23/2024	Potassium-40	4.57E+00	1.82E+01	6.11E+01	pCi/L	U
2140	676803001	7/23/2024	Potassium-40	-2.53E+01	2.02E+01	6.12E+01	pCi/L	U
2140	681489001	8/20/2024	Potassium-40	1.34E+01	1.71E+01	5.30E+01	pCi/L	U
2140	685843001	9/16/2024	Potassium-40	-1.78E+01	1.63E+01	5.10E+01	pCi/L	U
2140	690094001	10/15/2024	Potassium-40	1.03E+01	1.28E+01	1.44E+01	pCi/L	U
2140	690094001	10/15/2024	Potassium-40	1.18E+01	1.12E+01	1.56E+01	pCi/L	U
2140	694912001	11/12/2024	Potassium-40	9.80E+00	1.86E+01	6.39E+01	pCi/L	U
2140	699434002	12/10/2024	Potassium-40	-6.05E+00	9.30E+00	2.60E+01	pCi/L	U
2140	650995003	1/8/2024	Radium-226	-1.63E+01	2.58E+01	8.24E+01	pCi/L	U
2140	654188001	2/6/2024	Radium-226	9.00E+01	5.79E+01	8.46E+01	pCi/L	UI
2140	657417001	3/4/2024	Radium-226	9.76E+01	5.11E+01	6.82E+01	pCi/L	UI
2140	660794002	4/4/2024	Radium-226	2.44E+01	3.76E+01	1.21E+02	pCi/L	U
2140	665205001	5/1/2024	Radium-226	-5.82E+01	3.57E+01	1.19E+02	pCi/L	U
2140	669063002	5/28/2024	Radium-226	4.16E+01	5.43E+01	1.07E+02	pCi/L	U
2140	672774003	6/25/2024	Radium-226	2.57E+01	3.43E+01	9.92E+01	pCi/L	U
2140	676803001	7/23/2024	Radium-226	4.30E+01	5.25E+01	7.83E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	676803001	7/23/2024	Radium-226	1.25E+01	3.56E+01	1.08E+02	pCi/L	U
2140	681489001	8/20/2024	Radium-226	4.95E+01	4.94E+01	7.35E+01	pCi/L	U
2140	685843001	9/16/2024	Radium-226	1.37E+01	4.74E+01	7.13E+01	pCi/L	U
2140	690094001	10/15/2024	Radium-226	5.68E+00	2.51E+01	4.85E+01	pCi/L	U
2140	690094001	10/15/2024	Radium-226	-4.20E+01	1.59E+01	4.02E+01	pCi/L	U
2140	694912001	11/12/2024	Radium-226	7.97E+01	5.13E+01	7.39E+01	pCi/L	UI
2140	699434002	12/10/2024	Radium-226	-9.37E-01	1.56E+01	4.30E+01	pCi/L	U
2140	650995003	1/8/2024	Radium-228	1.87E+01	4.74E+00	1.50E+01	pCi/L	UI
2140	654188001	2/6/2024	Radium-228	4.65E+00	1.06E+01	2.27E+01	pCi/L	U
2140	657417001	3/4/2024	Radium-228	-2.06E+00	5.72E+00	1.77E+01	pCi/L	U
2140	660794002	4/4/2024	Radium-228	-1.74E+00	5.46E+00	1.60E+01	pCi/L	U
2140	665205001	5/1/2024	Radium-228	-1.26E+01	6.39E+00	1.83E+01	pCi/L	U
2140	669063002	5/28/2024	Radium-228	9.81E+00	6.85E+00	2.19E+01	pCi/L	U
2140	672774003	6/25/2024	Radium-228	-1.81E+00	3.81E+00	1.26E+01	pCi/L	U
2140	676803001	7/23/2024	Radium-228	1.14E+00	6.30E+00	1.90E+01	pCi/L	U
2140	676803001	7/23/2024	Radium-228	-6.32E+00	5.95E+00	1.68E+01	pCi/L	U
2140	681489001	8/20/2024	Radium-228	7.57E+00	5.27E+00	1.59E+01	pCi/L	U
2140	685843001	9/16/2024	Radium-228	9.92E-02	5.30E+00	1.59E+01	pCi/L	U
2140	690094001	10/15/2024	Radium-228	-1.31E+00	3.02E+00	6.65E+00	pCi/L	U
2140	690094001	10/15/2024	Radium-228	2.73E+00	3.53E+00	5.85E+00	pCi/L	U
2140	694912001	11/12/2024	Radium-228	-5.16E+00	5.81E+00	1.85E+01	pCi/L	U
2140	699434002	12/10/2024	Radium-228	1.46E+00	2.94E+00	7.28E+00	pCi/L	U
2140	650995003	1/8/2024	Ruthenium-103	6.66E-01	9.28E-01	3.27E+00	pCi/L	U
2140	654188001	2/6/2024	Ruthenium-103	2.59E+00	1.71E+00	2.51E+00	pCi/L	UI
2140	657417001	3/4/2024	Ruthenium-103	5.70E-01	1.34E+00	4.55E+00	pCi/L	U
2140	660794002	4/4/2024	Ruthenium-103	-9.77E-01	1.48E+00	4.71E+00	pCi/L	U
2140	665205001	5/1/2024	Ruthenium-103	2.32E-01	1.61E+00	4.66E+00	pCi/L	U
2140	669063002	5/28/2024	Ruthenium-103	-1.24E+00	1.35E+00	4.16E+00	pCi/L	U
2140	672774003	6/25/2024	Ruthenium-103	-2.92E-01	1.13E+00	3.21E+00	pCi/L	U
2140	676803001	7/23/2024	Ruthenium-103	-1.74E+00	1.15E+00	3.19E+00	pCi/L	U
2140	676803001	7/23/2024	Ruthenium-103	-2.20E-01	1.73E+00	5.01E+00	pCi/L	U
2140	681489001	8/20/2024	Ruthenium-103	-5.43E-01	1.30E+00	4.08E+00	pCi/L	U
2140	685843001	9/16/2024	Ruthenium-103	5.79E-01	1.30E+00	4.04E+00	pCi/L	U
2140	690094001	10/15/2024	Ruthenium-103	-5.30E-01	5.43E-01	1.73E+00	pCi/L	U
2140	690094001	10/15/2024	Ruthenium-103	-5.31E-01	5.81E-01	1.87E+00	pCi/L	U
2140	694912001	11/12/2024	Ruthenium-103	-1.34E+00	1.26E+00	3.74E+00	pCi/L	U
2140	699434002	12/10/2024	Ruthenium-103	-1.04E+00	5.16E-01	1.55E+00	pCi/L	U
2140	650995003	1/8/2024	Ruthenium-106	-1.63E-01	8.34E+00	2.48E+01	pCi/L	U
2140	654188001	2/6/2024	Ruthenium-106	-6.73E+00	9.62E+00	2.92E+01	pCi/L	U
2140	657417001	3/4/2024	Ruthenium-106	-9.47E+00	1.01E+01	2.94E+01	pCi/L	U
2140	660794002	4/4/2024	Ruthenium-106	-2.54E+01	1.50E+01	3.34E+01	pCi/L	U
2140	665205001	5/1/2024	Ruthenium-106	-1.01E+01	1.04E+01	3.22E+01	pCi/L	U
2140	669063002	5/28/2024	Ruthenium-106	-9.51E+00	1.10E+01	3.29E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	672774003	6/25/2024	Ruthenium-106	-1.06E+01	9.08E+00	2.61E+01	pCi/L	U
2140	676803001	7/23/2024	Ruthenium-106	-2.36E+01	1.20E+01	3.14E+01	pCi/L	U
2140	676803001	7/23/2024	Ruthenium-106	5.48E+00	1.04E+01	3.54E+01	pCi/L	U
2140	681489001	8/20/2024	Ruthenium-106	4.54E+00	8.41E+00	2.96E+01	pCi/L	U
2140	685843001	9/16/2024	Ruthenium-106	-5.66E+00	9.36E+00	2.94E+01	pCi/L	U
2140	690094001	10/15/2024	Ruthenium-106	6.98E-01	4.04E+00	1.33E+01	pCi/L	U
2140	690094001	10/15/2024	Ruthenium-106	-6.02E+00	4.27E+00	1.31E+01	pCi/L	U
2140	694912001	11/12/2024	Ruthenium-106	-1.79E+01	1.09E+01	2.86E+01	pCi/L	U
2140	699434002	12/10/2024	Ruthenium-106	-2.39E+00	4.35E+00	1.38E+01	pCi/L	U
2140	650995003	1/8/2024	Selenium-75	-8.59E-01	1.16E+00	3.49E+00	pCi/L	U
2140	654188001	2/6/2024	Selenium-75	-1.36E+00	1.65E+00	4.88E+00	pCi/L	U
2140	657417001	3/4/2024	Selenium-75	9.80E-03	1.61E+00	5.04E+00	pCi/L	U
2140	660794002	4/4/2024	Selenium-75	-8.66E-01	1.74E+00	5.27E+00	pCi/L	U
2140	665205001	5/1/2024	Selenium-75	-4.38E+00	1.71E+00	4.88E+00	pCi/L	U
2140	669063002	5/28/2024	Selenium-75	6.69E-01	1.70E+00	5.42E+00	pCi/L	U
2140	672774003	6/25/2024	Selenium-75	9.27E-01	1.19E+00	3.89E+00	pCi/L	U
2140	676803001	7/23/2024	Selenium-75	-1.13E+00	1.60E+00	5.17E+00	pCi/L	U
2140	676803001	7/23/2024	Selenium-75	1.87E+00	1.79E+00	5.97E+00	pCi/L	U
2140	681489001	8/20/2024	Selenium-75	-6.20E-03	1.42E+00	4.75E+00	pCi/L	U
2140	685843001	9/16/2024	Selenium-75	-1.43E+00	1.51E+00	4.51E+00	pCi/L	U
2140	690094001	10/15/2024	Selenium-75	-2.85E-01	6.15E-01	2.08E+00	pCi/L	U
2140	690094001	10/15/2024	Selenium-75	-7.30E-01	6.84E-01	2.05E+00	pCi/L	U
2140	694912001	11/12/2024	Selenium-75	2.13E+00	1.46E+00	5.39E+00	pCi/L	U
2140	699434002	12/10/2024	Selenium-75	-6.98E-01	6.11E-01	2.03E+00	pCi/L	U
2140	650995003	1/8/2024	Silver-108m	3.14E-02	7.09E-01	2.42E+00	pCi/L	U
2140	654188001	2/6/2024	Silver-108m	-6.34E-01	1.06E+00	3.44E+00	pCi/L	U
2140	657417001	3/4/2024	Silver-108m	-1.79E+00	1.14E+00	3.38E+00	pCi/L	U
2140	660794002	4/4/2024	Silver-108m	3.26E-02	1.13E+00	3.42E+00	pCi/L	U
2140	665205001	5/1/2024	Silver-108m	2.55E+00	1.01E+00	3.91E+00	pCi/L	U
2140	669063002	5/28/2024	Silver-108m	-1.33E+00	1.04E+00	3.15E+00	pCi/L	U
2140	672774003	6/25/2024	Silver-108m	-6.30E-02	7.88E-01	2.59E+00	pCi/L	U
2140	676803001	7/23/2024	Silver-108m	-2.17E-01	1.01E+00	3.19E+00	pCi/L	U
2140	676803001	7/23/2024	Silver-108m	-9.30E-02	1.10E+00	3.63E+00	pCi/L	U
2140	681489001	8/20/2024	Silver-108m	5.99E-01	9.11E-01	3.07E+00	pCi/L	U
2140	685843001	9/16/2024	Silver-108m	-1.07E+00	8.72E-01	2.72E+00	pCi/L	U
2140	690094001	10/15/2024	Silver-108m	3.71E-01	3.96E-01	1.37E+00	pCi/L	U
2140	690094001	10/15/2024	Silver-108m	6.88E-01	3.93E-01	1.41E+00	pCi/L	U
2140	694912001	11/12/2024	Silver-108m	-2.02E+00	1.20E+00	2.88E+00	pCi/L	U
2140	699434002	12/10/2024	Silver-108m	-2.12E-03	4.08E-01	1.36E+00	pCi/L	U
2140	650995003	1/8/2024	Silver-110m	1.56E+00	1.22E+00	4.39E+00	pCi/L	U
2140	654188001	2/6/2024	Silver-110m	-1.43E+00	1.61E+00	4.51E+00	pCi/L	U
2140	657417001	3/4/2024	Silver-110m	-9.18E-01	1.55E+00	4.89E+00	pCi/L	U
2140	660794002	4/4/2024	Silver-110m	3.78E+00	2.65E+00	6.86E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	665205001	5/1/2024	Silver-110m	1.65E+00	1.74E+00	6.27E+00	pCi/L	U
2140	669063002	5/28/2024	Silver-110m	7.04E-01	1.71E+00	5.92E+00	pCi/L	U
2140	672774003	6/25/2024	Silver-110m	-1.22E+00	1.04E+00	2.98E+00	pCi/L	U
2140	676803001	7/23/2024	Silver-110m	1.81E+00	1.49E+00	5.66E+00	pCi/L	U
2140	676803001	7/23/2024	Silver-110m	-1.38E+00	1.51E+00	4.51E+00	pCi/L	U
2140	681489001	8/20/2024	Silver-110m	-8.89E-01	1.47E+00	4.63E+00	pCi/L	U
2140	685843001	9/16/2024	Silver-110m	8.85E-01	1.56E+00	5.25E+00	pCi/L	U
2140	690094001	10/15/2024	Silver-110m	-1.75E-01	5.92E-01	1.85E+00	pCi/L	U
2140	690094001	10/15/2024	Silver-110m	-1.18E+00	6.82E-01	1.96E+00	pCi/L	U
2140	694912001	11/12/2024	Silver-110m	2.82E-01	1.98E+00	6.69E+00	pCi/L	U
2140	699434002	12/10/2024	Silver-110m	1.78E-01	7.31E-01	2.35E+00	pCi/L	U
2140	650995003	1/8/2024	Tellurium-132	2.38E-01	8.16E+00	2.61E+01	pCi/L	U
2140	654188001	2/6/2024	Tellurium-132	2.13E+00	8.77E+00	2.84E+01	pCi/L	U
2140	657417001	3/4/2024	Tellurium-132	9.37E+00	7.04E+00	2.41E+01	pCi/L	U
2140	660794002	4/4/2024	Tellurium-132	8.58E+00	1.27E+01	4.19E+01	pCi/L	U
2140	665205001	5/1/2024	Tellurium-132	4.41E+00	7.60E+00	2.63E+01	pCi/L	U
2140	669063002	5/28/2024	Tellurium-132	-1.32E+00	6.88E+00	2.15E+01	pCi/L	U
2140	672774003	6/25/2024	Tellurium-132	9.74E+00	9.50E+00	3.14E+01	pCi/L	U
2140	676803001	7/23/2024	Tellurium-132	-4.58E+00	4.84E+00	1.56E+01	pCi/L	U
2140	676803001	7/23/2024	Tellurium-132	2.10E-02	8.43E+00	2.66E+01	pCi/L	U
2140	681489001	8/20/2024	Tellurium-132	-7.04E-01	5.32E+00	1.78E+01	pCi/L	U
2140	685843001	9/16/2024	Tellurium-132	-3.36E+00	1.05E+01	3.30E+01	pCi/L	U
2140	690094001	10/15/2024	Tellurium-132	2.13E+00	1.15E+01	3.60E+01	pCi/L	U
2140	690094001	10/15/2024	Tellurium-132	-6.48E+00	1.39E+01	4.29E+01	pCi/L	U
2140	694912001	11/12/2024	Tellurium-132	-2.31E+00	6.13E+00	1.88E+01	pCi/L	U
2140	699434002	12/10/2024	Tellurium-132	-3.61E+00	9.12E+00	2.81E+01	pCi/L	U
2140	650995003	1/8/2024	Thallium-208	2.20E+00	1.75E+00	2.72E+00	pCi/L	U
2140	654188001	2/6/2024	Thallium-208	6.16E-01	1.85E+00	6.08E+00	pCi/L	U
2140	657417001	3/4/2024	Thallium-208	2.74E+00	2.15E+00	3.89E+00	pCi/L	U
2140	660794002	4/4/2024	Thallium-208	5.99E-01	2.30E+00	3.79E+00	pCi/L	U
2140	665205001	5/1/2024	Thallium-208	-1.46E+00	1.60E+00	5.03E+00	pCi/L	U
2140	669063002	5/28/2024	Thallium-208	-2.19E+00	1.38E+00	4.12E+00	pCi/L	U
2140	672774003	6/25/2024	Thallium-208	3.11E+00	1.44E+00	2.67E+00	pCi/L	UI
2140	676803001	7/23/2024	Thallium-208	-1.94E+00	1.42E+00	3.99E+00	pCi/L	U
2140	676803001	7/23/2024	Thallium-208	2.62E+00	1.56E+00	5.51E+00	pCi/L	U
2140	681489001	8/20/2024	Thallium-208	2.67E+00	1.86E+00	3.46E+00	pCi/L	U
2140	685843001	9/16/2024	Thallium-208	4.49E-01	1.32E+00	4.27E+00	pCi/L	U
2140	690094001	10/15/2024	Thallium-208	1.33E+00	8.09E-01	1.98E+00	pCi/L	U
2140	690094001	10/15/2024	Thallium-208	3.77E-01	1.07E+00	1.63E+00	pCi/L	U
2140	694912001	11/12/2024	Thallium-208	3.51E+00	2.40E+00	3.94E+00	pCi/L	U
2140	699434002	12/10/2024	Thallium-208	2.41E+00	1.22E+00	1.50E+00	pCi/L	UI
2140	650995003	1/8/2024	Thorium-228	2.80E+00	2.96E+00	6.80E+00	pCi/L	U
2140	654188001	2/6/2024	Thorium-228	1.57E+00	3.12E+00	1.00E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	657417001	3/4/2024	Thorium-228	-2.98E+00	2.28E+00	7.19E+00	pCi/L	U
2140	660794002	4/4/2024	Thorium-228	3.57E+00	4.72E+00	1.11E+01	pCi/L	U
2140	665205001	5/1/2024	Thorium-228	-4.63E+00	2.96E+00	9.50E+00	pCi/L	U
2140	669063002	5/28/2024	Thorium-228	-7.19E-01	2.88E+00	8.57E+00	pCi/L	U
2140	672774003	6/25/2024	Thorium-228	4.40E+00	2.66E+00	7.41E+00	pCi/L	U
2140	676803001	7/23/2024	Thorium-228	6.04E+00	5.26E+00	9.40E+00	pCi/L	U
2140	676803001	7/23/2024	Thorium-228	4.15E+00	3.00E+00	9.27E+00	pCi/L	U
2140	681489001	8/20/2024	Thorium-228	-9.61E-01	2.66E+00	8.16E+00	pCi/L	U
2140	685843001	9/16/2024	Thorium-228	1.74E-01	2.49E+00	7.67E+00	pCi/L	U
2140	690094001	10/15/2024	Thorium-228	1.86E-01	1.89E+00	2.92E+00	pCi/L	U
2140	690094001	10/15/2024	Thorium-228	-1.03E+00	1.33E+00	3.63E+00	pCi/L	U
2140	694912001	11/12/2024	Thorium-228	2.45E+00	4.19E+00	8.13E+00	pCi/L	U
2140	699434002	12/10/2024	Thorium-228	-7.09E-01	1.43E+00	3.81E+00	pCi/L	U
2140	650995003	1/8/2024	Thorium-230	1.05E+03	8.23E+02	1.36E+03	pCi/L	U
2140	654188001	2/6/2024	Thorium-230	2.53E+03	1.20E+03	2.08E+03	pCi/L	UI
2140	657417001	3/4/2024	Thorium-230	-9.52E+02	5.16E+02	1.58E+03	pCi/L	U
2140	660794002	4/4/2024	Thorium-230	-3.20E+02	6.61E+02	2.17E+03	pCi/L	U
2140	665205001	5/1/2024	Thorium-230	1.21E+03	8.77E+02	1.95E+03	pCi/L	U
2140	669063002	5/28/2024	Thorium-230	-4.91E+02	4.90E+02	1.51E+03	pCi/L	U
2140	672774003	6/25/2024	Thorium-230	6.88E+02	3.28E+02	1.10E+03	pCi/L	U
2140	676803001	7/23/2024	Thorium-230	1.94E+03	1.41E+03	2.40E+03	pCi/L	U
2140	676803001	7/23/2024	Thorium-230	-2.73E+01	4.96E+02	1.57E+03	pCi/L	U
2140	681489001	8/20/2024	Thorium-230	1.09E+03	5.31E+02	1.74E+03	pCi/L	U
2140	685843001	9/16/2024	Thorium-230	-1.71E+03	7.30E+02	1.93E+03	pCi/L	U
2140	690094001	10/15/2024	Thorium-230	7.25E+02	3.40E+02	6.14E+02	pCi/L	UI
2140	690094001	10/15/2024	Thorium-230	5.36E+02	1.67E+02	3.96E+02	pCi/L	UI
2140	694912001	11/12/2024	Thorium-230	1.79E+03	9.32E+02	1.53E+03	pCi/L	UI
2140	699434002	12/10/2024	Thorium-230	3.04E+02	1.70E+02	3.72E+02	pCi/L	U
2140	650995003	1/8/2024	Thorium-232	-1.66E+03	9.07E+02	2.53E+03	pCi/L	U
2140	654188001	2/6/2024	Thorium-232	2.07E+03	2.03E+03	3.75E+03	pCi/L	U
2140	657417001	3/4/2024	Thorium-232	2.30E+02	1.34E+03	2.75E+03	pCi/L	U
2140	660794002	4/4/2024	Thorium-232	2.31E+03	2.01E+03	4.18E+03	pCi/L	U
2140	665205001	5/1/2024	Thorium-232	-6.85E+02	1.46E+03	4.56E+03	pCi/L	U
2140	669063002	5/28/2024	Thorium-232	-2.37E+03	9.95E+02	3.09E+03	pCi/L	U
2140	672774003	6/25/2024	Thorium-232	1.86E+03	9.10E+02	1.44E+03	pCi/L	UI
2140	676803001	7/23/2024	Thorium-232	1.36E+03	2.74E+03	4.64E+03	pCi/L	U
2140	676803001	7/23/2024	Thorium-232	3.10E+02	1.12E+03	3.57E+03	pCi/L	U
2140	681489001	8/20/2024	Thorium-232	1.38E+03	1.99E+03	2.88E+03	pCi/L	U
2140	685843001	9/16/2024	Thorium-232	-9.76E+02	1.27E+03	3.94E+03	pCi/L	U
2140	690094001	10/15/2024	Thorium-232	2.11E+02	7.27E+02	1.14E+03	pCi/L	U
2140	690094001	10/15/2024	Thorium-232	6.83E+02	4.14E+02	6.25E+02	pCi/L	UI
2140	694912001	11/12/2024	Thorium-232	-5.82E+02	1.08E+03	3.29E+03	pCi/L	U
2140	699434002	12/10/2024	Thorium-232	2.28E+02	3.98E+02	6.15E+02	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	650995003	1/8/2024	Thorium-234	-2.81E+01	6.22E+01	1.84E+02	pCi/L	U
2140	654188001	2/6/2024	Thorium-234	1.45E+02	1.43E+02	2.74E+02	pCi/L	U
2140	657417001	3/4/2024	Thorium-234	1.62E+01	9.38E+01	1.99E+02	pCi/L	U
2140	660794002	4/4/2024	Thorium-234	1.62E+02	1.41E+02	3.04E+02	pCi/L	U
2140	665205001	5/1/2024	Thorium-234	-6.16E+01	1.06E+02	3.30E+02	pCi/L	U
2140	669063002	5/28/2024	Thorium-234	-9.08E+01	7.07E+01	2.27E+02	pCi/L	U
2140	672774003	6/25/2024	Thorium-234	1.31E+02	6.40E+01	1.66E+02	pCi/L	U
2140	676803001	7/23/2024	Thorium-234	9.55E+01	1.92E+02	3.38E+02	pCi/L	U
2140	676803001	7/23/2024	Thorium-234	-6.18E+01	7.92E+01	2.41E+02	pCi/L	U
2140	681489001	8/20/2024	Thorium-234	9.71E+01	1.40E+02	2.77E+02	pCi/L	U
2140	685843001	9/16/2024	Thorium-234	-1.26E+02	9.71E+01	2.78E+02	pCi/L	U
2140	690094001	10/15/2024	Thorium-234	1.49E+01	5.11E+01	9.69E+01	pCi/L	U
2140	690094001	10/15/2024	Thorium-234	4.80E+01	2.91E+01	5.67E+01	pCi/L	U
2140	694912001	11/12/2024	Thorium-234	-1.02E+01	7.51E+01	2.33E+02	pCi/L	U
2140	699434002	12/10/2024	Thorium-234	1.60E+01	2.80E+01	4.35E+01	pCi/L	U
2140	664024001	3/4/2024	Tritium	-2.54E+02	1.98E+02	6.97E+02	pCi/L	U
2140	695234001	9/16/2024	Tritium	2.89E+02	2.97E+02	9.52E+02	pCi/L	U
2140	690097002	10/15/2024	Tritium	5.42E+02			pCi/L	
2140	690097002	10/15/2024	Tritium	3.60E+02			pCi/L	
2140	705723002	12/10/2024	Tritium	-2.62E+00	2.50E+02	8.22E+02	pCi/L	U
2140	650995003	1/8/2024	Uranium-234	6.11E+03	3.06E+03	1.12E+04	pCi/L	U
2140	654188001	2/6/2024	Uranium-234	1.12E+04	7.10E+03	2.62E+04	pCi/L	U
2140	657417001	3/4/2024	Uranium-234	-1.11E+03	3.62E+03	1.24E+04	pCi/L	U
2140	660794002	4/4/2024	Uranium-234	3.78E+03	6.94E+03	2.42E+04	pCi/L	U
2140	665205001	5/1/2024	Uranium-234	1.34E+03	5.69E+03	1.79E+04	pCi/L	U
2140	669063002	5/28/2024	Uranium-234	1.02E+04	4.33E+03	9.19E+03	pCi/L	UI
2140	672774003	6/25/2024	Uranium-234	1.77E+03	1.65E+03	5.38E+03	pCi/L	U
2140	676803001	7/23/2024	Uranium-234	-1.53E+04	8.57E+03	2.49E+04	pCi/L	U
2140	676803001	7/23/2024	Uranium-234	6.01E+03	3.60E+03	1.34E+04	pCi/L	U
2140	681489001	8/20/2024	Uranium-234	-6.44E+03	5.40E+03	1.56E+04	pCi/L	U
2140	685843001	9/16/2024	Uranium-234	9.06E+03	5.69E+03	2.08E+04	pCi/L	U
2140	690094001	10/15/2024	Uranium-234	2.41E+02	2.64E+03	4.27E+03	pCi/L	U
2140	690094001	10/15/2024	Uranium-234	5.53E+02	5.01E+02	1.71E+03	pCi/L	U
2140	694912001	11/12/2024	Uranium-234	5.70E+03	3.73E+03	1.37E+04	pCi/L	U
2140	699434002	12/10/2024	Uranium-234	7.62E+02	7.35E+02	1.51E+03	pCi/L	U
2140	650995003	1/8/2024	Zinc-65	9.39E-01	1.69E+00	5.74E+00	pCi/L	U
2140	654188001	2/6/2024	Zinc-65	9.55E-01	2.63E+00	9.26E+00	pCi/L	U
2140	657417001	3/4/2024	Zinc-65	-8.94E-01	2.06E+00	6.31E+00	pCi/L	U
2140	660794002	4/4/2024	Zinc-65	2.45E+00	2.98E+00	9.94E+00	pCi/L	U
2140	665205001	5/1/2024	Zinc-65	4.81E-01	2.78E+00	9.21E+00	pCi/L	U
2140	669063002	5/28/2024	Zinc-65	-1.99E+00	2.69E+00	8.12E+00	pCi/L	U
2140	672774003	6/25/2024	Zinc-65	3.63E-01	2.30E+00	7.77E+00	pCi/L	U
2140	676803001	7/23/2024	Zinc-65	-2.44E+00	2.16E+00	6.02E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2140	676803001	7/23/2024	Zinc-65	-8.04E-01	1.98E+00	6.05E+00	pCi/L	U
2140	681489001	8/20/2024	Zinc-65	1.19E+00	2.36E+00	8.02E+00	pCi/L	U
2140	685843001	9/16/2024	Zinc-65	7.96E-01	2.49E+00	7.71E+00	pCi/L	U
2140	690094001	10/15/2024	Zinc-65	1.94E-01	9.26E-01	2.80E+00	pCi/L	U
2140	690094001	10/15/2024	Zinc-65	1.46E+00	9.20E-01	3.40E+00	pCi/L	U
2140	694912001	11/12/2024	Zinc-65	4.90E-01	2.48E+00	8.33E+00	pCi/L	U
2140	699434002	12/10/2024	Zinc-65	-2.01E+00	1.08E+00	3.04E+00	pCi/L	U
2140	650995003	1/8/2024	Zirconium-95	-2.65E-01	1.42E+00	4.05E+00	pCi/L	U
2140	654188001	2/6/2024	Zirconium-95	-3.80E+00	2.21E+00	5.54E+00	pCi/L	U
2140	657417001	3/4/2024	Zirconium-95	6.99E-01	2.41E+00	7.53E+00	pCi/L	U
2140	660794002	4/4/2024	Zirconium-95	3.11E-01	2.32E+00	7.63E+00	pCi/L	U
2140	665205001	5/1/2024	Zirconium-95	1.28E+00	2.15E+00	7.59E+00	pCi/L	U
2140	669063002	5/28/2024	Zirconium-95	-1.22E+00	2.17E+00	7.05E+00	pCi/L	U
2140	672774003	6/25/2024	Zirconium-95	-4.13E-01	1.63E+00	5.01E+00	pCi/L	U
2140	676803001	7/23/2024	Zirconium-95	5.65E+00	2.06E+00	8.42E+00	pCi/L	U
2140	676803001	7/23/2024	Zirconium-95	3.90E+00	2.60E+00	7.53E+00	pCi/L	U
2140	681489001	8/20/2024	Zirconium-95	1.42E+00	2.46E+00	6.09E+00	pCi/L	U
2140	685843001	9/16/2024	Zirconium-95	3.85E+00	1.92E+00	7.30E+00	pCi/L	U
2140	690094001	10/15/2024	Zirconium-95	9.98E-02	8.79E-01	2.85E+00	pCi/L	U
2140	690094001	10/15/2024	Zirconium-95	7.45E-01	9.26E-01	3.14E+00	pCi/L	U
2140	694912001	11/12/2024	Zirconium-95	-2.68E-01	1.72E+00	5.73E+00	pCi/L	U
2140	699434002	12/10/2024	Zirconium-95	2.64E-01	9.08E-01	2.96E+00	pCi/L	U
2141	650995002	1/8/2024	Actinium-228	9.38E+00	8.12E+00	1.24E+01	pCi/L	U
2141	654188002	2/5/2024	Actinium-228	-5.61E+00	5.21E+00	1.48E+01	pCi/L	U
2141	657417002	3/5/2024	Actinium-228	-9.60E-02	7.14E+00	2.26E+01	pCi/L	U
2141	660794003	4/2/2024	Actinium-228	-4.86E+00	6.53E+00	2.07E+01	pCi/L	U
2141	665205002	4/30/2024	Actinium-228	4.18E+00	3.97E+00	1.33E+01	pCi/L	U
2141	669063003	5/28/2024	Actinium-228	-3.64E+00	4.20E+00	1.21E+01	pCi/L	U
2141	672774002	6/25/2024	Actinium-228	-1.80E+00	5.17E+00	1.67E+01	pCi/L	U
2141	676803002	7/23/2024	Actinium-228	6.07E+00	5.81E+00	1.96E+01	pCi/L	U
2141	681489003	8/20/2024	Actinium-228	7.07E+00	8.22E+00	2.16E+01	pCi/L	U
2141	685843003	9/17/2024	Actinium-228	5.34E+00	5.85E+00	1.57E+01	pCi/L	U
2141	690094002	10/15/2024	Actinium-228	3.32E+00	3.31E+00	6.73E+00	pCi/L	U
2141	694912002	11/13/2024	Actinium-228	-3.55E+00	6.63E+00	1.99E+01	pCi/L	U
2141	699434003	12/10/2024	Actinium-228	-5.84E-01	4.47E+00	1.22E+01	pCi/L	U
2141	650995002	1/8/2024	Americium-241	-4.46E+00	9.20E+00	3.08E+01	pCi/L	U
2141	654188002	2/5/2024	Americium-241	-1.58E+00	6.12E+00	2.03E+01	pCi/L	U
2141	657417002	3/5/2024	Americium-241	-8.39E-01	2.64E+00	7.41E+00	pCi/L	U
2141	660794003	4/2/2024	Americium-241	1.54E-01	1.23E+01	3.92E+01	pCi/L	U
2141	665205002	4/30/2024	Americium-241	-1.02E+00	5.07E+00	1.54E+01	pCi/L	U
2141	669063003	5/28/2024	Americium-241	2.67E+00	2.53E+00	9.01E+00	pCi/L	U
2141	672774002	6/25/2024	Americium-241	-3.69E+00	6.58E+00	1.98E+01	pCi/L	U
2141	676803002	7/23/2024	Americium-241	-4.26E+00	1.29E+01	3.97E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	681489003	8/20/2024	Americium-241	3.10E+00	1.19E+01	3.78E+01	pCi/L	U
2141	685843003	9/17/2024	Americium-241	6.66E+00	6.02E+00	2.13E+01	pCi/L	U
2141	690094002	10/15/2024	Americium-241	-1.55E+01	6.14E+00	1.49E+01	pCi/L	U
2141	694912002	11/13/2024	Americium-241	3.96E+00	2.19E+00	7.04E+00	pCi/L	U
2141	699434003	12/10/2024	Americium-241	1.77E-01	5.00E+00	1.56E+01	pCi/L	U
2141	650995002	1/8/2024	Antimony-124	-8.10E-01	2.24E+00	6.83E+00	pCi/L	U
2141	654188002	2/5/2024	Antimony-124	-1.29E+00	2.37E+00	7.00E+00	pCi/L	U
2141	657417002	3/5/2024	Antimony-124	-1.04E+00	3.02E+00	9.31E+00	pCi/L	U
2141	660794003	4/2/2024	Antimony-124	5.26E+00	4.36E+00	1.63E+01	pCi/L	U
2141	665205002	4/30/2024	Antimony-124	1.28E+00	2.69E+00	9.31E+00	pCi/L	U
2141	669063003	5/28/2024	Antimony-124	-2.70E-01	2.66E+00	8.78E+00	pCi/L	U
2141	672774002	6/25/2024	Antimony-124	3.37E+00	2.03E+00	8.63E+00	pCi/L	U
2141	676803002	7/23/2024	Antimony-124	-2.70E+00	3.09E+00	8.48E+00	pCi/L	U
2141	681489003	8/20/2024	Antimony-124	-3.86E+00	2.95E+00	7.06E+00	pCi/L	U
2141	685843003	9/17/2024	Antimony-124	1.30E+00	2.25E+00	8.12E+00	pCi/L	U
2141	690094002	10/15/2024	Antimony-124	2.02E+00	1.40E+00	5.09E+00	pCi/L	U
2141	694912002	11/13/2024	Antimony-124	-3.97E-01	2.87E+00	8.92E+00	pCi/L	U
2141	699434003	12/10/2024	Antimony-124	-1.24E+00	2.01E+00	6.14E+00	pCi/L	U
2141	650995002	1/8/2024	Antimony-125	6.49E-01	2.53E+00	8.71E+00	pCi/L	U
2141	654188002	2/5/2024	Antimony-125	3.64E+00	2.72E+00	1.00E+01	pCi/L	U
2141	657417002	3/5/2024	Antimony-125	6.19E+00	3.32E+00	1.23E+01	pCi/L	U
2141	660794003	4/2/2024	Antimony-125	-6.91E-02	3.22E+00	1.09E+01	pCi/L	U
2141	665205002	4/30/2024	Antimony-125	3.66E+00	2.49E+00	9.15E+00	pCi/L	U
2141	669063003	5/28/2024	Antimony-125	-4.46E+00	2.64E+00	8.01E+00	pCi/L	U
2141	672774002	6/25/2024	Antimony-125	4.01E+00	2.86E+00	1.05E+01	pCi/L	U
2141	676803002	7/23/2024	Antimony-125	8.68E-01	3.45E+00	1.18E+01	pCi/L	U
2141	681489003	8/20/2024	Antimony-125	6.64E+00	5.35E+00	1.28E+01	pCi/L	U
2141	685843003	9/17/2024	Antimony-125	-4.85E+00	3.08E+00	9.37E+00	pCi/L	U
2141	690094002	10/15/2024	Antimony-125	1.17E+00	1.26E+00	4.39E+00	pCi/L	U
2141	694912002	11/13/2024	Antimony-125	-4.47E+00	3.05E+00	8.99E+00	pCi/L	U
2141	699434003	12/10/2024	Antimony-125	-2.64E-01	2.28E+00	7.67E+00	pCi/L	U
2141	650995002	1/8/2024	Barium-140	4.89E+00	6.55E+00	2.29E+01	pCi/L	U
2141	654188002	2/5/2024	Barium-140	6.17E+00	6.35E+00	1.81E+01	pCi/L	U
2141	657417002	3/5/2024	Barium-140	3.50E+00	6.80E+00	2.39E+01	pCi/L	U
2141	660794003	4/2/2024	Barium-140	8.56E+00	8.65E+00	3.12E+01	pCi/L	U
2141	665205002	4/30/2024	Barium-140	7.44E+00	4.77E+00	1.69E+01	pCi/L	U
2141	669063003	5/28/2024	Barium-140	-1.90E+00	5.47E+00	1.80E+01	pCi/L	U
2141	672774002	6/25/2024	Barium-140	3.55E+00	7.22E+00	2.49E+01	pCi/L	U
2141	676803002	7/23/2024	Barium-140	4.32E+00	6.61E+00	2.30E+01	pCi/L	U
2141	681489003	8/20/2024	Barium-140	5.61E+00	6.08E+00	2.18E+01	pCi/L	U
2141	685843003	9/17/2024	Barium-140	-1.06E+01	7.34E+00	2.20E+01	pCi/L	U
2141	690094002	10/15/2024	Barium-140	-3.03E+00	3.64E+00	1.16E+01	pCi/L	U
2141	694912002	11/13/2024	Barium-140	1.27E+01	1.20E+01	2.11E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	699434003	12/10/2024	Barium-140	8.03E-01	6.88E+00	2.30E+01	pCi/L	U
2141	650995002	1/8/2024	Beryllium-7	9.32E+00	8.95E+00	3.21E+01	pCi/L	U
2141	654188002	2/5/2024	Beryllium-7	2.73E-01	1.02E+01	3.43E+01	pCi/L	U
2141	657417002	3/5/2024	Beryllium-7	3.37E+00	1.12E+01	3.89E+01	pCi/L	U
2141	660794003	4/2/2024	Beryllium-7	1.36E-01	1.19E+01	4.00E+01	pCi/L	U
2141	665205002	4/30/2024	Beryllium-7	2.48E+00	8.04E+00	2.73E+01	pCi/L	U
2141	669063003	5/28/2024	Beryllium-7	-7.85E+00	9.08E+00	2.45E+01	pCi/L	U
2141	672774002	6/25/2024	Beryllium-7	-5.50E+00	9.38E+00	3.01E+01	pCi/L	U
2141	676803002	7/23/2024	Beryllium-7	-1.08E+01	9.48E+00	2.86E+01	pCi/L	U
2141	681489003	8/20/2024	Beryllium-7	-7.97E+00	1.16E+01	3.70E+01	pCi/L	U
2141	685843003	9/17/2024	Beryllium-7	-1.80E+00	9.92E+00	3.28E+01	pCi/L	U
2141	690094002	10/15/2024	Beryllium-7	4.88E+00	3.86E+00	1.37E+01	pCi/L	U
2141	694912002	11/13/2024	Beryllium-7	-2.70E+00	1.04E+01	3.40E+01	pCi/L	U
2141	699434003	12/10/2024	Beryllium-7	7.71E+00	7.93E+00	2.78E+01	pCi/L	U
2141	650995002	1/8/2024	BETA	1.25E+00	9.46E-01	2.84E+00	pCi/L	U
2141	654188002	2/5/2024	BETA	2.29E+00	9.23E-01	2.50E+00	pCi/L	U
2141	657417002	3/5/2024	BETA	2.12E+00	9.66E-01	2.70E+00	pCi/L	U
2141	660794003	4/2/2024	BETA	2.12E+00	8.89E-01	2.45E+00	pCi/L	U
2141	665205002	4/30/2024	BETA	2.31E+00	9.80E-01	2.69E+00	pCi/L	U
2141	669063003	5/28/2024	BETA	6.96E-01	9.40E-01	2.93E+00	pCi/L	U
2141	672774002	6/25/2024	BETA	5.61E-01	7.51E-01	2.33E+00	pCi/L	U
2141	676803002	7/23/2024	BETA	1.47E+00	8.22E-01	2.36E+00	pCi/L	U
2141	681489003	8/20/2024	BETA	1.15E+00	8.90E-01	2.68E+00	pCi/L	U
2141	685843003	9/17/2024	BETA	1.87E+00	1.14E+00	3.38E+00	pCi/L	U
2141	690094002	10/15/2024	BETA	1.44E+00	9.16E-01	2.68E+00	pCi/L	U
2141	694912002	11/13/2024	BETA	-2.23E-01	9.13E-01	3.05E+00	pCi/L	U
2141	699434003	12/10/2024	BETA	5.55E-01	1.01E+00	3.25E+00	pCi/L	U
2141	650995002	1/8/2024	Bismuth-214	4.92E+00	3.70E+00	6.03E+00	pCi/L	U
2141	654188002	2/5/2024	Bismuth-214	1.14E+01	4.78E+00	1.26E+01	pCi/L	U
2141	657417002	3/5/2024	Bismuth-214	-1.11E+00	3.64E+00	1.14E+01	pCi/L	U
2141	660794003	4/2/2024	Bismuth-214	3.06E+00	4.72E+00	6.88E+00	pCi/L	U
2141	665205002	4/30/2024	Bismuth-214	6.66E+00	3.42E+00	8.85E+00	pCi/L	U
2141	669063003	5/28/2024	Bismuth-214	9.37E-01	2.56E+00	8.48E+00	pCi/L	U
2141	672774002	6/25/2024	Bismuth-214	1.47E-01	3.23E+00	7.75E+00	pCi/L	U
2141	676803002	7/23/2024	Bismuth-214	-3.55E+00	3.29E+00	1.05E+01	pCi/L	U
2141	681489003	8/20/2024	Bismuth-214	2.27E+00	5.79E+00	1.05E+01	pCi/L	U
2141	685843003	9/17/2024	Bismuth-214	6.58E+00	4.76E+00	9.75E+00	pCi/L	U
2141	690094002	10/15/2024	Bismuth-214	1.80E+00	2.23E+00	3.92E+00	pCi/L	U
2141	694912002	11/13/2024	Bismuth-214	1.15E+00	3.80E+00	1.24E+01	pCi/L	U
2141	699434003	12/10/2024	Bismuth-214	8.23E+00	2.34E+00	8.00E+00	pCi/L	UI
2141	650995002	1/8/2024	Cerium-141	-1.63E+00	2.23E+00	7.13E+00	pCi/L	U
2141	654188002	2/5/2024	Cerium-141	1.16E+00	2.18E+00	7.21E+00	pCi/L	U
2141	657417002	3/5/2024	Cerium-141	2.83E-01	2.08E+00	7.01E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	660794003	4/2/2024	Cerium-141	-1.55E+00	2.79E+00	8.92E+00	pCi/L	U
2141	665205002	4/30/2024	Cerium-141	-1.96E+00	1.99E+00	6.06E+00	pCi/L	U
2141	669063003	5/28/2024	Cerium-141	8.32E-01	1.70E+00	5.32E+00	pCi/L	U
2141	672774002	6/25/2024	Cerium-141	-2.65E+00	2.25E+00	6.88E+00	pCi/L	U
2141	676803002	7/23/2024	Cerium-141	4.23E+00	3.49E+00	8.15E+00	pCi/L	U
2141	681489003	8/20/2024	Cerium-141	-1.18E+00	2.33E+00	7.38E+00	pCi/L	U
2141	685843003	9/17/2024	Cerium-141	-9.37E-02	2.15E+00	6.95E+00	pCi/L	U
2141	690094002	10/15/2024	Cerium-141	-6.41E-01	1.12E+00	3.58E+00	pCi/L	U
2141	694912002	11/13/2024	Cerium-141	-4.03E-01	1.66E+00	5.39E+00	pCi/L	U
2141	699434003	12/10/2024	Cerium-141	-2.68E+00	1.70E+00	5.20E+00	pCi/L	U
2141	650995002	1/8/2024	Cerium-144	-5.54E+00	6.76E+00	2.15E+01	pCi/L	U
2141	654188002	2/5/2024	Cerium-144	-2.24E+00	7.81E+00	2.51E+01	pCi/L	U
2141	657417002	3/5/2024	Cerium-144	1.68E-01	7.13E+00	2.40E+01	pCi/L	U
2141	660794003	4/2/2024	Cerium-144	-1.94E+01	8.11E+00	2.31E+01	pCi/L	U
2141	665205002	4/30/2024	Cerium-144	-2.83E+00	6.15E+00	1.92E+01	pCi/L	U
2141	669063003	5/28/2024	Cerium-144	3.69E+00	5.91E+00	2.01E+01	pCi/L	U
2141	672774002	6/25/2024	Cerium-144	1.66E+01	7.91E+00	2.80E+01	pCi/L	U
2141	676803002	7/23/2024	Cerium-144	-4.40E+00	8.45E+00	2.69E+01	pCi/L	U
2141	681489003	8/20/2024	Cerium-144	-2.57E+00	9.32E+00	3.00E+01	pCi/L	U
2141	685843003	9/17/2024	Cerium-144	7.05E+00	7.72E+00	2.61E+01	pCi/L	U
2141	690094002	10/15/2024	Cerium-144	4.93E+00	3.55E+00	1.20E+01	pCi/L	U
2141	694912002	11/13/2024	Cerium-144	1.75E+01	1.10E+01	2.09E+01	pCi/L	U
2141	699434003	12/10/2024	Cerium-144	1.38E+01	5.21E+00	1.84E+01	pCi/L	U
2141	650995002	1/8/2024	Cesium-134	2.34E-01	1.00E+00	3.32E+00	pCi/L	U
2141	654188002	2/5/2024	Cesium-134	8.96E-01	1.30E+00	4.47E+00	pCi/L	U
2141	657417002	3/5/2024	Cesium-134	-5.74E-01	1.50E+00	4.73E+00	pCi/L	U
2141	660794003	4/2/2024	Cesium-134	-1.83E+00	1.54E+00	4.03E+00	pCi/L	U
2141	665205002	4/30/2024	Cesium-134	2.33E+00	1.97E+00	3.72E+00	pCi/L	U
2141	669063003	5/28/2024	Cesium-134	-2.09E-01	1.19E+00	3.43E+00	pCi/L	U
2141	672774002	6/25/2024	Cesium-134	2.07E-01	1.14E+00	3.77E+00	pCi/L	U
2141	676803002	7/23/2024	Cesium-134	2.60E+00	8.46E-01	3.94E+00	pCi/L	U
2141	681489003	8/20/2024	Cesium-134	-1.56E-01	1.42E+00	4.53E+00	pCi/L	U
2141	685843003	9/17/2024	Cesium-134	-3.87E-01	1.36E+00	4.29E+00	pCi/L	U
2141	690094002	10/15/2024	Cesium-134	-6.36E-03	5.41E-01	1.75E+00	pCi/L	U
2141	694912002	11/13/2024	Cesium-134	3.62E-01	1.91E+00	6.19E+00	pCi/L	U
2141	699434003	12/10/2024	Cesium-134	-1.01E+00	9.11E-01	2.72E+00	pCi/L	U
2141	650995002	1/8/2024	Cesium-137	5.27E-01	1.13E+00	3.83E+00	pCi/L	U
2141	654188002	2/5/2024	Cesium-137	1.60E-01	1.33E+00	4.32E+00	pCi/L	U
2141	657417002	3/5/2024	Cesium-137	-1.54E+00	1.37E+00	4.07E+00	pCi/L	U
2141	660794003	4/2/2024	Cesium-137	6.29E-01	1.37E+00	4.69E+00	pCi/L	U
2141	665205002	4/30/2024	Cesium-137	-2.70E-01	1.11E+00	3.10E+00	pCi/L	U
2141	669063003	5/28/2024	Cesium-137	-1.80E-01	1.06E+00	3.50E+00	pCi/L	U
2141	672774002	6/25/2024	Cesium-137	8.02E-01	1.25E+00	4.32E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	676803002	7/23/2024	Cesium-137	-4.73E-01	1.41E+00	4.25E+00	pCi/L	U
2141	681489003	8/20/2024	Cesium-137	-2.01E+00	1.27E+00	3.49E+00	pCi/L	U
2141	685843003	9/17/2024	Cesium-137	-4.36E-01	1.34E+00	4.29E+00	pCi/L	U
2141	690094002	10/15/2024	Cesium-137	1.16E+00	7.57E-01	1.67E+00	pCi/L	U
2141	694912002	11/13/2024	Cesium-137	-8.13E-01	1.65E+00	5.12E+00	pCi/L	U
2141	699434003	12/10/2024	Cesium-137	6.28E-01	7.81E-01	2.69E+00	pCi/L	U
2141	650995002	1/8/2024	Chromium-51	7.43E+00	1.17E+01	3.79E+01	pCi/L	U
2141	654188002	2/5/2024	Chromium-51	1.50E+01	1.17E+01	4.24E+01	pCi/L	U
2141	657417002	3/5/2024	Chromium-51	-1.27E+01	1.06E+01	3.07E+01	pCi/L	U
2141	660794003	4/2/2024	Chromium-51	-9.10E+00	1.61E+01	4.82E+01	pCi/L	U
2141	665205002	4/30/2024	Chromium-51	-8.35E+00	9.31E+00	3.00E+01	pCi/L	U
2141	669063003	5/28/2024	Chromium-51	8.52E+00	8.76E+00	2.97E+01	pCi/L	U
2141	672774002	6/25/2024	Chromium-51	-6.03E+00	1.17E+01	3.89E+01	pCi/L	U
2141	676803002	7/23/2024	Chromium-51	-7.50E+00	1.03E+01	3.37E+01	pCi/L	U
2141	681489003	8/20/2024	Chromium-51	-2.87E+00	1.25E+01	3.79E+01	pCi/L	U
2141	685843003	9/17/2024	Chromium-51	1.37E+00	1.07E+01	3.69E+01	pCi/L	U
2141	690094002	10/15/2024	Chromium-51	-2.35E+00	5.28E+00	1.79E+01	pCi/L	U
2141	694912002	11/13/2024	Chromium-51	2.97E+01	1.20E+01	3.22E+01	pCi/L	U
2141	699434003	12/10/2024	Chromium-51	-1.45E+01	9.13E+00	2.95E+01	pCi/L	U
2141	650995002	1/8/2024	Cobalt-57	1.20E-02	9.74E-01	3.23E+00	pCi/L	U
2141	654188002	2/5/2024	Cobalt-57	4.67E-01	1.02E+00	3.39E+00	pCi/L	U
2141	657417002	3/5/2024	Cobalt-57	-3.68E-01	9.22E-01	3.06E+00	pCi/L	U
2141	660794003	4/2/2024	Cobalt-57	1.22E+00	1.13E+00	3.93E+00	pCi/L	U
2141	665205002	4/30/2024	Cobalt-57	1.31E+00	8.24E-01	2.86E+00	pCi/L	U
2141	669063003	5/28/2024	Cobalt-57	-2.05E-01	8.11E-01	2.65E+00	pCi/L	U
2141	672774002	6/25/2024	Cobalt-57	1.59E-01	9.30E-01	3.06E+00	pCi/L	U
2141	676803002	7/23/2024	Cobalt-57	-2.64E-01	9.71E-01	3.14E+00	pCi/L	U
2141	681489003	8/20/2024	Cobalt-57	-1.46E+00	1.24E+00	3.85E+00	pCi/L	U
2141	685843003	9/17/2024	Cobalt-57	5.93E-01	1.00E+00	3.35E+00	pCi/L	U
2141	690094002	10/15/2024	Cobalt-57	3.47E-01	4.57E-01	1.52E+00	pCi/L	U
2141	694912002	11/13/2024	Cobalt-57	3.22E-01	8.33E-01	2.82E+00	pCi/L	U
2141	699434003	12/10/2024	Cobalt-57	1.14E+00	7.41E-01	2.53E+00	pCi/L	U
2141	650995002	1/8/2024	Cobalt-58	6.52E-01	1.05E+00	3.58E+00	pCi/L	U
2141	654188002	2/5/2024	Cobalt-58	-2.83E-01	1.27E+00	4.02E+00	pCi/L	U
2141	657417002	3/5/2024	Cobalt-58	1.56E+00	2.74E+00	4.99E+00	pCi/L	U
2141	660794003	4/2/2024	Cobalt-58	-1.40E+00	1.22E+00	3.30E+00	pCi/L	U
2141	665205002	4/30/2024	Cobalt-58	1.02E+00	8.54E-01	3.12E+00	pCi/L	U
2141	669063003	5/28/2024	Cobalt-58	-2.95E-01	1.04E+00	2.92E+00	pCi/L	U
2141	672774002	6/25/2024	Cobalt-58	-6.39E-01	1.34E+00	4.13E+00	pCi/L	U
2141	676803002	7/23/2024	Cobalt-58	1.01E+00	1.14E+00	4.05E+00	pCi/L	U
2141	681489003	8/20/2024	Cobalt-58	1.33E+00	1.12E+00	4.12E+00	pCi/L	U
2141	685843003	9/17/2024	Cobalt-58	1.30E+00	1.06E+00	3.85E+00	pCi/L	U
2141	690094002	10/15/2024	Cobalt-58	-5.87E-01	4.98E-01	1.49E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	694912002	11/13/2024	Cobalt-58	-2.13E+00	1.85E+00	5.11E+00	pCi/L	U
2141	699434003	12/10/2024	Cobalt-58	-9.46E-01	8.73E-01	2.59E+00	pCi/L	U
2141	650995002	1/8/2024	Cobalt-60	8.50E-01	1.17E+00	4.17E+00	pCi/L	U
2141	654188002	2/5/2024	Cobalt-60	3.88E-01	1.17E+00	4.05E+00	pCi/L	U
2141	657417002	3/5/2024	Cobalt-60	1.64E+00	1.68E+00	6.25E+00	pCi/L	U
2141	660794003	4/2/2024	Cobalt-60	-7.70E-01	1.41E+00	4.33E+00	pCi/L	U
2141	665205002	4/30/2024	Cobalt-60	5.53E-01	7.99E-01	2.92E+00	pCi/L	U
2141	669063003	5/28/2024	Cobalt-60	9.63E-01	9.14E-01	3.39E+00	pCi/L	U
2141	672774002	6/25/2024	Cobalt-60	8.81E-01	1.02E+00	3.78E+00	pCi/L	U
2141	676803002	7/23/2024	Cobalt-60	-1.11E+00	1.46E+00	4.03E+00	pCi/L	U
2141	681489003	8/20/2024	Cobalt-60	2.24E+00	1.79E+00	5.58E+00	pCi/L	U
2141	685843003	9/17/2024	Cobalt-60	1.99E-01	1.01E+00	3.10E+00	pCi/L	U
2141	690094002	10/15/2024	Cobalt-60	5.87E-01	4.96E-01	1.79E+00	pCi/L	U
2141	694912002	11/13/2024	Cobalt-60	8.60E-01	1.18E+00	4.32E+00	pCi/L	U
2141	699434003	12/10/2024	Cobalt-60	7.48E-01	7.08E-01	2.60E+00	pCi/L	U
2141	672774002	6/25/2024	Iodine-131	6.28E-01	2.66E+00	9.18E+00	pCi/L	U
2141	694912002	11/13/2024	Iodine-131	1.26E+00	1.90E+00	6.75E+00	pCi/L	U
2141	699434003	12/10/2024	Iodine-131	3.25E+00	3.11E+00	1.10E+01	pCi/L	U
2141	650995002	1/8/2024	Iron-59	1.15E+00	2.13E+00	7.56E+00	pCi/L	U
2141	654188002	2/5/2024	Iron-59	-1.63E+00	1.67E+00	3.80E+00	pCi/L	U
2141	657417002	3/5/2024	Iron-59	-1.45E+00	3.08E+00	9.30E+00	pCi/L	U
2141	660794003	4/2/2024	Iron-59	-3.28E+00	3.13E+00	9.38E+00	pCi/L	U
2141	665205002	4/30/2024	Iron-59	2.78E-02	1.92E+00	6.45E+00	pCi/L	U
2141	669063003	5/28/2024	Iron-59	2.58E+00	1.83E+00	6.97E+00	pCi/L	U
2141	672774002	6/25/2024	Iron-59	-1.23E+00	2.45E+00	6.75E+00	pCi/L	U
2141	676803002	7/23/2024	Iron-59	3.75E-01	2.58E+00	8.85E+00	pCi/L	U
2141	681489003	8/20/2024	Iron-59	-1.70E+00	2.83E+00	7.80E+00	pCi/L	U
2141	685843003	9/17/2024	Iron-59	-3.42E-01	1.08E+00	3.40E+00	pCi/L	U
2141	690094002	10/15/2024	Iron-59	2.40E-01	1.03E+00	3.53E+00	pCi/L	U
2141	694912002	11/13/2024	Iron-59	-2.19E+00	3.07E+00	7.99E+00	pCi/L	U
2141	699434003	12/10/2024	Iron-59	-1.73E+00	1.66E+00	5.16E+00	pCi/L	U
2141	650995002	1/8/2024	Lanthanum-140	-2.04E+00	2.29E+00	6.24E+00	pCi/L	U
2141	654188002	2/5/2024	Lanthanum-140	-6.75E-01	1.77E+00	5.44E+00	pCi/L	U
2141	657417002	3/5/2024	Lanthanum-140	2.67E+00	2.37E+00	9.16E+00	pCi/L	U
2141	660794003	4/2/2024	Lanthanum-140	-4.40E+00	3.20E+00	8.06E+00	pCi/L	U
2141	665205002	4/30/2024	Lanthanum-140	3.45E-01	2.18E+00	7.27E+00	pCi/L	U
2141	669063003	5/28/2024	Lanthanum-140	-2.85E+00	1.51E+00	3.23E+00	pCi/L	U
2141	672774002	6/25/2024	Lanthanum-140	-1.83E+00	2.12E+00	6.01E+00	pCi/L	U
2141	676803002	7/23/2024	Lanthanum-140	-1.41E+00	2.58E+00	7.85E+00	pCi/L	U
2141	681489003	8/20/2024	Lanthanum-140	-2.87E+00	2.59E+00	7.10E+00	pCi/L	U
2141	685843003	9/17/2024	Lanthanum-140	7.30E-02	2.09E+00	6.94E+00	pCi/L	U
2141	690094002	10/15/2024	Lanthanum-140	6.52E+00	1.71E+00	4.65E+00	pCi/L	UI
2141	694912002	11/13/2024	Lanthanum-140	2.18E+00	3.18E+00	1.07E+01	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	699434003	12/10/2024	Lanthanum-140	9.92E-01	2.10E+00	7.24E+00	pCi/L	U
2141	650995002	1/8/2024	Lead-210	7.08E+02	4.83E+02	1.55E+03	pCi/L	U
2141	654188002	2/5/2024	Lead-210	-7.91E+01	1.96E+02	5.89E+02	pCi/L	U
2141	657417002	3/5/2024	Lead-210	-1.21E+01	2.87E+01	9.86E+01	pCi/L	U
2141	660794003	4/2/2024	Lead-210	5.55E+02	5.25E+02	1.91E+03	pCi/L	U
2141	665205002	4/30/2024	Lead-210	-3.01E+02	1.36E+02	4.18E+02	pCi/L	U
2141	669063003	5/28/2024	Lead-210	1.16E+02	8.02E+01	1.04E+02	pCi/L	UI
2141	672774002	6/25/2024	Lead-210	5.99E+02	2.31E+02	4.77E+02	pCi/L	UI
2141	676803002	7/23/2024	Lead-210	8.85E+01	5.88E+02	1.93E+03	pCi/L	U
2141	681489003	8/20/2024	Lead-210	8.32E+02	5.41E+02	1.98E+03	pCi/L	U
2141	685843003	9/17/2024	Lead-210	9.17E+01	1.85E+02	5.84E+02	pCi/L	U
2141	690094002	10/15/2024	Lead-210	-1.01E+02	2.98E+02	7.05E+02	pCi/L	U
2141	694912002	11/13/2024	Lead-210	5.37E+01	3.72E+01	5.58E+01	pCi/L	U
2141	699434003	12/10/2024	Lead-210	-1.03E+02	1.37E+02	3.91E+02	pCi/L	U
2141	650995002	1/8/2024	Lead-212	2.45E+00	2.39E+00	7.07E+00	pCi/L	U
2141	654188002	2/5/2024	Lead-212	2.32E+00	4.11E+00	8.18E+00	pCi/L	U
2141	657417002	3/5/2024	Lead-212	3.40E+00	3.52E+00	8.44E+00	pCi/L	U
2141	660794003	4/2/2024	Lead-212	8.06E-01	2.65E+00	8.59E+00	pCi/L	U
2141	665205002	4/30/2024	Lead-212	1.90E+00	3.63E+00	7.44E+00	pCi/L	U
2141	669063003	5/28/2024	Lead-212	4.98E+00	3.14E+00	8.05E+00	pCi/L	U
2141	672774002	6/25/2024	Lead-212	4.05E+00	3.78E+00	8.46E+00	pCi/L	U
2141	676803002	7/23/2024	Lead-212	1.09E+01	4.24E+00	9.91E+00	pCi/L	UI
2141	681489003	8/20/2024	Lead-212	-3.18E+00	3.06E+00	9.36E+00	pCi/L	U
2141	685843003	9/17/2024	Lead-212	-4.34E+00	2.61E+00	7.67E+00	pCi/L	U
2141	690094002	10/15/2024	Lead-212	1.14E-01	1.88E+00	3.93E+00	pCi/L	U
2141	694912002	11/13/2024	Lead-212	3.09E-01	3.82E+00	8.48E+00	pCi/L	U
2141	699434003	12/10/2024	Lead-212	4.34E+00	2.71E+00	4.41E+00	pCi/L	U
2141	650995002	1/8/2024	Lead-214	4.43E+00	4.35E+00	9.38E+00	pCi/L	U
2141	654188002	2/5/2024	Lead-214	1.04E+01	3.91E+00	1.12E+01	pCi/L	U
2141	657417002	3/5/2024	Lead-214	-7.77E-01	3.61E+00	9.98E+00	pCi/L	U
2141	660794003	4/2/2024	Lead-214	-6.73E+00	3.12E+00	8.69E+00	pCi/L	U
2141	665205002	4/30/2024	Lead-214	3.09E+00	2.28E+00	8.23E+00	pCi/L	U
2141	669063003	5/28/2024	Lead-214	-6.27E-01	2.83E+00	8.56E+00	pCi/L	U
2141	672774002	6/25/2024	Lead-214	-8.96E-01	2.93E+00	9.01E+00	pCi/L	U
2141	676803002	7/23/2024	Lead-214	9.30E+00	6.31E+00	1.20E+01	pCi/L	U
2141	681489003	8/20/2024	Lead-214	-1.61E+00	3.18E+00	9.66E+00	pCi/L	U
2141	685843003	9/17/2024	Lead-214	3.64E+00	2.70E+00	9.81E+00	pCi/L	U
2141	690094002	10/15/2024	Lead-214	-1.08E+00	1.68E+00	3.93E+00	pCi/L	U
2141	694912002	11/13/2024	Lead-214	1.52E+01	7.62E+00	1.48E+01	pCi/L	UI
2141	699434003	12/10/2024	Lead-214	6.67E-01	2.38E+00	7.05E+00	pCi/L	U
2141	650995002	1/8/2024	Manganese-54	-8.08E-01	1.14E+00	3.45E+00	pCi/L	U
2141	654188002	2/5/2024	Manganese-54	-4.62E-01	1.19E+00	3.69E+00	pCi/L	U
2141	657417002	3/5/2024	Manganese-54	1.41E+00	1.71E+00	5.98E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	660794003	4/2/2024	Manganese-54	-6.82E-01	1.06E+00	3.11E+00	pCi/L	U
2141	665205002	4/30/2024	Manganese-54	7.90E-01	1.01E+00	3.47E+00	pCi/L	U
2141	669063003	5/28/2024	Manganese-54	-1.99E-01	8.26E-01	2.63E+00	pCi/L	U
2141	672774002	6/25/2024	Manganese-54	-2.48E+00	1.10E+00	2.60E+00	pCi/L	U
2141	676803002	7/23/2024	Manganese-54	1.89E+00	1.08E+00	4.17E+00	pCi/L	U
2141	681489003	8/20/2024	Manganese-54	1.32E-01	1.01E+00	3.31E+00	pCi/L	U
2141	685843003	9/17/2024	Manganese-54	2.32E+00	1.02E+00	4.02E+00	pCi/L	U
2141	690094002	10/15/2024	Manganese-54	-2.39E-02	4.57E-01	1.47E+00	pCi/L	U
2141	694912002	11/13/2024	Manganese-54	-2.77E+00	1.32E+00	2.94E+00	pCi/L	U
2141	699434003	12/10/2024	Manganese-54	-3.23E-01	7.97E-01	2.50E+00	pCi/L	U
2141	650995002	1/8/2024	Molybdenum-99	-3.12E+01	1.35E+02	4.30E+02	pCi/L	U
2141	654188002	2/5/2024	Molybdenum-99	1.47E+02	1.07E+02	3.89E+02	pCi/L	U
2141	657417002	3/5/2024	Molybdenum-99	-4.19E+01	7.69E+01	2.39E+02	pCi/L	U
2141	660794003	4/2/2024	Molybdenum-99	-4.13E+01	2.72E+02	8.72E+02	pCi/L	U
2141	665205002	4/30/2024	Molybdenum-99	-7.43E+00	1.03E+02	3.28E+02	pCi/L	U
2141	669063003	5/28/2024	Molybdenum-99	4.64E+01	4.59E+01	1.70E+02	pCi/L	U
2141	672774002	6/25/2024	Molybdenum-99	1.58E+02	1.53E+02	5.40E+02	pCi/L	U
2141	676803002	7/23/2024	Molybdenum-99	-1.13E+01	5.56E+01	1.77E+02	pCi/L	U
2141	681489003	8/20/2024	Molybdenum-99	3.18E+00	7.19E+01	2.34E+02	pCi/L	U
2141	685843003	9/17/2024	Molybdenum-99	1.23E+02	1.11E+02	3.97E+02	pCi/L	U
2141	690094002	10/15/2024	Molybdenum-99	1.43E+02	1.84E+02	6.23E+02	pCi/L	U
2141	694912002	11/13/2024	Molybdenum-99	-7.40E+00	6.95E+01	2.21E+02	pCi/L	U
2141	699434003	12/10/2024	Molybdenum-99	-2.01E+02	3.36E+02	1.05E+03	pCi/L	U
2141	650995002	1/8/2024	Niobium-95	7.44E-01	1.04E+00	3.60E+00	pCi/L	U
2141	654188002	2/5/2024	Niobium-95	1.33E+00	1.34E+00	4.68E+00	pCi/L	U
2141	657417002	3/5/2024	Niobium-95	2.60E+00	1.53E+00	5.81E+00	pCi/L	U
2141	660794003	4/2/2024	Niobium-95	-2.60E+00	1.66E+00	4.46E+00	pCi/L	U
2141	665205002	4/30/2024	Niobium-95	1.50E+00	9.61E-01	3.56E+00	pCi/L	U
2141	669063003	5/28/2024	Niobium-95	-9.94E-01	9.49E-01	2.77E+00	pCi/L	U
2141	672774002	6/25/2024	Niobium-95	1.58E+00	1.10E+00	4.05E+00	pCi/L	U
2141	676803002	7/23/2024	Niobium-95	-1.44E+00	1.52E+00	4.34E+00	pCi/L	U
2141	681489003	8/20/2024	Niobium-95	-1.23E+00	2.01E+00	4.23E+00	pCi/L	U
2141	685843003	9/17/2024	Niobium-95	8.20E-01	1.22E+00	4.20E+00	pCi/L	U
2141	690094002	10/15/2024	Niobium-95	6.10E-01	5.19E-01	1.80E+00	pCi/L	U
2141	694912002	11/13/2024	Niobium-95	2.13E+00	2.07E+00	4.09E+00	pCi/L	U
2141	699434003	12/10/2024	Niobium-95	-6.78E-02	9.78E-01	3.16E+00	pCi/L	U
2141	650995002	1/8/2024	Potassium-40	1.87E+01	2.30E+01	3.81E+01	pCi/L	U
2141	654188002	2/5/2024	Potassium-40	-1.24E+01	1.31E+01	4.35E+01	pCi/L	U
2141	657417002	3/5/2024	Potassium-40	2.52E+01	2.27E+01	8.13E+01	pCi/L	U
2141	660794003	4/2/2024	Potassium-40	-1.03E+01	2.10E+01	7.36E+01	pCi/L	U
2141	665205002	4/30/2024	Potassium-40	-8.74E+00	1.51E+01	5.38E+01	pCi/L	U
2141	669063003	5/28/2024	Potassium-40	-1.73E+01	1.31E+01	4.11E+01	pCi/L	U
2141	672774002	6/25/2024	Potassium-40	5.95E+00	1.92E+01	3.79E+01	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	676803002	7/23/2024	Potassium-40	-3.13E-02	2.06E+01	7.56E+01	pCi/L	U
2141	681489003	8/20/2024	Potassium-40	5.14E+01	2.17E+01	3.81E+01	pCi/L	UI
2141	685843003	9/17/2024	Potassium-40	2.53E+01	1.49E+01	2.32E+01	pCi/L	UI
2141	690094002	10/15/2024	Potassium-40	-2.39E+01	9.61E+00	2.57E+01	pCi/L	U
2141	694912002	11/13/2024	Potassium-40	-2.16E+01	1.67E+01	5.55E+01	pCi/L	U
2141	699434003	12/10/2024	Potassium-40	1.76E+01	1.64E+01	2.76E+01	pCi/L	U
2141	650995002	1/8/2024	Radium-226	1.53E+01	4.40E+01	7.46E+01	pCi/L	U
2141	654188002	2/5/2024	Radium-226	1.81E+01	4.46E+01	7.75E+01	pCi/L	U
2141	657417002	3/5/2024	Radium-226	3.54E+01	5.16E+01	8.03E+01	pCi/L	U
2141	660794003	4/2/2024	Radium-226	-1.01E+02	3.50E+01	1.10E+02	pCi/L	U
2141	665205002	4/30/2024	Radium-226	-2.57E+01	3.07E+01	1.01E+02	pCi/L	U
2141	669063003	5/28/2024	Radium-226	-7.16E+01	2.49E+01	7.27E+01	pCi/L	U
2141	672774002	6/25/2024	Radium-226	-4.38E+00	3.15E+01	1.02E+02	pCi/L	U
2141	676803002	7/23/2024	Radium-226	1.03E+01	5.54E+01	8.23E+01	pCi/L	U
2141	681489003	8/20/2024	Radium-226	2.13E+01	5.20E+01	9.14E+01	pCi/L	U
2141	685843003	9/17/2024	Radium-226	2.66E+01	3.80E+01	8.36E+01	pCi/L	U
2141	690094002	10/15/2024	Radium-226	1.75E+01	2.63E+01	3.33E+01	pCi/L	U
2141	694912002	11/13/2024	Radium-226	6.89E+01	5.59E+01	1.26E+02	pCi/L	U
2141	699434003	12/10/2024	Radium-226	3.57E+01	3.50E+01	4.86E+01	pCi/L	U
2141	650995002	1/8/2024	Radium-228	9.38E+00	8.12E+00	1.24E+01	pCi/L	U
2141	654188002	2/5/2024	Radium-228	-5.61E+00	5.21E+00	1.48E+01	pCi/L	U
2141	657417002	3/5/2024	Radium-228	-9.60E-02	7.14E+00	2.26E+01	pCi/L	U
2141	660794003	4/2/2024	Radium-228	-4.86E+00	6.53E+00	2.07E+01	pCi/L	U
2141	665205002	4/30/2024	Radium-228	4.18E+00	3.97E+00	1.33E+01	pCi/L	U
2141	669063003	5/28/2024	Radium-228	-3.64E+00	4.20E+00	1.21E+01	pCi/L	U
2141	672774002	6/25/2024	Radium-228	-1.80E+00	5.17E+00	1.67E+01	pCi/L	U
2141	676803002	7/23/2024	Radium-228	6.07E+00	5.81E+00	1.96E+01	pCi/L	U
2141	681489003	8/20/2024	Radium-228	7.07E+00	8.22E+00	2.16E+01	pCi/L	U
2141	685843003	9/17/2024	Radium-228	5.34E+00	5.85E+00	1.57E+01	pCi/L	U
2141	690094002	10/15/2024	Radium-228	3.32E+00	3.31E+00	6.73E+00	pCi/L	U
2141	694912002	11/13/2024	Radium-228	-3.55E+00	6.63E+00	1.99E+01	pCi/L	U
2141	699434003	12/10/2024	Radium-228	-5.84E-01	4.47E+00	1.22E+01	pCi/L	U
2141	650995002	1/8/2024	Ruthenium-103	1.05E+00	1.19E+00	4.19E+00	pCi/L	U
2141	654188002	2/5/2024	Ruthenium-103	-7.95E-01	1.28E+00	4.11E+00	pCi/L	U
2141	657417002	3/5/2024	Ruthenium-103	-2.84E+00	1.50E+00	4.37E+00	pCi/L	U
2141	660794003	4/2/2024	Ruthenium-103	6.01E+00	3.25E+00	1.90E+00	pCi/L	UI
2141	665205002	4/30/2024	Ruthenium-103	6.36E-01	1.03E+00	3.56E+00	pCi/L	U
2141	669063003	5/28/2024	Ruthenium-103	-4.30E-01	9.83E-01	2.85E+00	pCi/L	U
2141	672774002	6/25/2024	Ruthenium-103	-9.10E-01	1.37E+00	4.40E+00	pCi/L	U
2141	676803002	7/23/2024	Ruthenium-103	-3.77E-01	1.39E+00	4.05E+00	pCi/L	U
2141	681489003	8/20/2024	Ruthenium-103	-2.18E+00	1.31E+00	3.79E+00	pCi/L	U
2141	685843003	9/17/2024	Ruthenium-103	3.01E-01	1.25E+00	3.85E+00	pCi/L	U
2141	690094002	10/15/2024	Ruthenium-103	-7.48E-01	5.22E-01	1.63E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	694912002	11/13/2024	Ruthenium-103	-1.39E+00	1.25E+00	3.16E+00	pCi/L	U
2141	699434003	12/10/2024	Ruthenium-103	-1.17E+00	1.03E+00	3.28E+00	pCi/L	U
2141	650995002	1/8/2024	Ruthenium-106	-3.46E+00	1.11E+01	3.16E+01	pCi/L	U
2141	654188002	2/5/2024	Ruthenium-106	-3.96E+00	1.01E+01	3.32E+01	pCi/L	U
2141	657417002	3/5/2024	Ruthenium-106	-2.56E+01	1.30E+01	3.59E+01	pCi/L	U
2141	660794003	4/2/2024	Ruthenium-106	6.21E+00	1.18E+01	4.08E+01	pCi/L	U
2141	665205002	4/30/2024	Ruthenium-106	-6.28E+00	9.06E+00	2.78E+01	pCi/L	U
2141	669063003	5/28/2024	Ruthenium-106	-1.62E+00	8.44E+00	2.78E+01	pCi/L	U
2141	672774002	6/25/2024	Ruthenium-106	2.51E+00	1.13E+01	3.77E+01	pCi/L	U
2141	676803002	7/23/2024	Ruthenium-106	4.01E+00	9.27E+00	3.19E+01	pCi/L	U
2141	681489003	8/20/2024	Ruthenium-106	7.61E+00	1.09E+01	3.48E+01	pCi/L	U
2141	685843003	9/17/2024	Ruthenium-106	3.86E+00	1.04E+01	3.51E+01	pCi/L	U
2141	690094002	10/15/2024	Ruthenium-106	4.39E+00	4.43E+00	1.53E+01	pCi/L	U
2141	694912002	11/13/2024	Ruthenium-106	-5.75E+00	1.26E+01	3.95E+01	pCi/L	U
2141	699434003	12/10/2024	Ruthenium-106	1.12E+01	7.07E+00	2.54E+01	pCi/L	U
2141	650995002	1/8/2024	Selenium-75	-1.65E-01	1.39E+00	4.36E+00	pCi/L	U
2141	654188002	2/5/2024	Selenium-75	7.15E-01	1.84E+00	5.64E+00	pCi/L	U
2141	657417002	3/5/2024	Selenium-75	-1.41E-01	1.67E+00	5.44E+00	pCi/L	U
2141	660794003	4/2/2024	Selenium-75	-1.43E+00	1.83E+00	5.44E+00	pCi/L	U
2141	665205002	4/30/2024	Selenium-75	-1.12E-01	1.38E+00	4.26E+00	pCi/L	U
2141	669063003	5/28/2024	Selenium-75	2.30E+00	1.09E+00	4.01E+00	pCi/L	U
2141	672774002	6/25/2024	Selenium-75	-5.70E-01	1.74E+00	5.35E+00	pCi/L	U
2141	676803002	7/23/2024	Selenium-75	3.31E+00	1.79E+00	6.26E+00	pCi/L	U
2141	681489003	8/20/2024	Selenium-75	1.95E-01	1.89E+00	5.96E+00	pCi/L	U
2141	685843003	9/17/2024	Selenium-75	1.82E-01	1.72E+00	5.43E+00	pCi/L	U
2141	690094002	10/15/2024	Selenium-75	-9.33E-01	1.04E+00	2.35E+00	pCi/L	U
2141	694912002	11/13/2024	Selenium-75	-5.83E-01	1.55E+00	4.76E+00	pCi/L	U
2141	699434003	12/10/2024	Selenium-75	5.14E-01	1.10E+00	3.53E+00	pCi/L	U
2141	650995002	1/8/2024	Silver-108m	5.06E-01	8.57E-01	3.00E+00	pCi/L	U
2141	654188002	2/5/2024	Silver-108m	2.61E-01	1.13E+00	3.69E+00	pCi/L	U
2141	657417002	3/5/2024	Silver-108m	4.13E-01	1.24E+00	4.05E+00	pCi/L	U
2141	660794003	4/2/2024	Silver-108m	-2.82E-01	9.03E-01	2.97E+00	pCi/L	U
2141	665205002	4/30/2024	Silver-108m	-9.52E-01	8.16E-01	2.48E+00	pCi/L	U
2141	669063003	5/28/2024	Silver-108m	5.37E-01	7.52E-01	2.71E+00	pCi/L	U
2141	672774002	6/25/2024	Silver-108m	-2.08E+00	1.21E+00	3.64E+00	pCi/L	U
2141	676803002	7/23/2024	Silver-108m	1.10E+00	1.10E+00	3.94E+00	pCi/L	U
2141	681489003	8/20/2024	Silver-108m	1.09E+00	1.10E+00	3.81E+00	pCi/L	U
2141	685843003	9/17/2024	Silver-108m	2.84E+00	1.71E+00	4.14E+00	pCi/L	U
2141	690094002	10/15/2024	Silver-108m	-6.77E-01	3.97E-01	1.24E+00	pCi/L	U
2141	694912002	11/13/2024	Silver-108m	1.51E+00	1.01E+00	3.77E+00	pCi/L	U
2141	699434003	12/10/2024	Silver-108m	-1.32E+00	9.47E-01	2.51E+00	pCi/L	U
2141	650995002	1/8/2024	Silver-110m	1.20E-01	1.14E+00	3.69E+00	pCi/L	U
2141	654188002	2/5/2024	Silver-110m	-1.34E-01	1.45E+00	4.42E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	657417002	3/5/2024	Silver-110m	-1.55E+00	1.92E+00	5.68E+00	pCi/L	U
2141	660794003	4/2/2024	Silver-110m	9.54E-02	1.59E+00	5.15E+00	pCi/L	U
2141	665205002	4/30/2024	Silver-110m	-5.03E-01	1.03E+00	3.03E+00	pCi/L	U
2141	669063003	5/28/2024	Silver-110m	1.26E+00	1.31E+00	4.73E+00	pCi/L	U
2141	672774002	6/25/2024	Silver-110m	-1.56E+00	1.68E+00	4.87E+00	pCi/L	U
2141	676803002	7/23/2024	Silver-110m	-2.55E+00	1.75E+00	4.57E+00	pCi/L	U
2141	681489003	8/20/2024	Silver-110m	-2.24E+00	2.18E+00	6.26E+00	pCi/L	U
2141	685843003	9/17/2024	Silver-110m	7.31E-01	1.62E+00	5.23E+00	pCi/L	U
2141	690094002	10/15/2024	Silver-110m	1.33E+00	1.13E+00	2.32E+00	pCi/L	U
2141	694912002	11/13/2024	Silver-110m	2.24E+00	1.68E+00	6.48E+00	pCi/L	U
2141	699434003	12/10/2024	Silver-110m	-1.27E+00	1.15E+00	3.36E+00	pCi/L	U
2141	650995002	1/8/2024	Tellurium-132	1.13E+01	9.94E+00	3.36E+01	pCi/L	U
2141	654188002	2/5/2024	Tellurium-132	-4.34E+00	9.08E+00	2.80E+01	pCi/L	U
2141	657417002	3/5/2024	Tellurium-132	5.81E+00	5.92E+00	2.06E+01	pCi/L	U
2141	660794003	4/2/2024	Tellurium-132	3.55E+01	1.82E+01	6.48E+01	pCi/L	U
2141	665205002	4/30/2024	Tellurium-132	-5.41E+00	7.40E+00	2.20E+01	pCi/L	U
2141	669063003	5/28/2024	Tellurium-132	3.08E+00	4.49E+00	1.50E+01	pCi/L	U
2141	672774002	6/25/2024	Tellurium-132	1.88E+01	1.06E+01	3.69E+01	pCi/L	U
2141	676803002	7/23/2024	Tellurium-132	-5.17E+00	5.20E+00	1.55E+01	pCi/L	U
2141	681489003	8/20/2024	Tellurium-132	-7.39E+00	6.71E+00	1.98E+01	pCi/L	U
2141	685843003	9/17/2024	Tellurium-132	7.68E+00	9.44E+00	3.11E+01	pCi/L	U
2141	690094002	10/15/2024	Tellurium-132	-1.80E+00	1.32E+01	4.15E+01	pCi/L	U
2141	694912002	11/13/2024	Tellurium-132	8.12E+00	3.94E+00	1.43E+01	pCi/L	U
2141	699434003	12/10/2024	Tellurium-132	1.20E+01	2.22E+01	7.14E+01	pCi/L	U
2141	650995002	1/8/2024	Thallium-208	3.14E-01	1.24E+00	3.88E+00	pCi/L	U
2141	654188002	2/5/2024	Thallium-208	-8.64E-01	1.50E+00	4.45E+00	pCi/L	U
2141	657417002	3/5/2024	Thallium-208	1.69E+00	2.99E+00	4.09E+00	pCi/L	U
2141	660794003	4/2/2024	Thallium-208	-1.61E+00	1.40E+00	4.26E+00	pCi/L	U
2141	665205002	4/30/2024	Thallium-208	-5.37E-01	1.41E+00	4.50E+00	pCi/L	U
2141	669063003	5/28/2024	Thallium-208	-1.21E-01	1.24E+00	4.11E+00	pCi/L	U
2141	672774002	6/25/2024	Thallium-208	-1.15E+00	1.52E+00	4.46E+00	pCi/L	U
2141	676803002	7/23/2024	Thallium-208	2.36E-01	1.55E+00	5.30E+00	pCi/L	U
2141	681489003	8/20/2024	Thallium-208	4.75E+00	2.49E+00	3.19E+00	pCi/L	UI
2141	685843003	9/17/2024	Thallium-208	-1.95E+00	1.43E+00	4.48E+00	pCi/L	U
2141	690094002	10/15/2024	Thallium-208	1.23E+00	9.64E-01	1.50E+00	pCi/L	U
2141	694912002	11/13/2024	Thallium-208	1.30E+00	1.68E+00	5.86E+00	pCi/L	U
2141	699434003	12/10/2024	Thallium-208	1.23E+00	1.08E+00	3.18E+00	pCi/L	U
2141	650995002	1/8/2024	Thorium-228	2.45E+00	2.39E+00	7.07E+00	pCi/L	U
2141	654188002	2/5/2024	Thorium-228	2.32E+00	4.11E+00	8.18E+00	pCi/L	U
2141	657417002	3/5/2024	Thorium-228	3.40E+00	3.52E+00	8.44E+00	pCi/L	U
2141	660794003	4/2/2024	Thorium-228	8.06E-01	2.65E+00	8.59E+00	pCi/L	U
2141	665205002	4/30/2024	Thorium-228	1.90E+00	3.63E+00	7.44E+00	pCi/L	U
2141	669063003	5/28/2024	Thorium-228	4.98E+00	3.14E+00	8.05E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	672774002	6/25/2024	Thorium-228	4.05E+00	3.78E+00	8.46E+00	pCi/L	U
2141	676803002	7/23/2024	Thorium-228	1.09E+01	4.24E+00	9.91E+00	pCi/L	UI
2141	681489003	8/20/2024	Thorium-228	-3.18E+00	3.06E+00	9.36E+00	pCi/L	U
2141	685843003	9/17/2024	Thorium-228	-4.34E+00	2.61E+00	7.67E+00	pCi/L	U
2141	690094002	10/15/2024	Thorium-228	1.14E-01	1.88E+00	3.93E+00	pCi/L	U
2141	694912002	11/13/2024	Thorium-228	3.09E-01	3.82E+00	8.48E+00	pCi/L	U
2141	699434003	12/10/2024	Thorium-228	4.34E+00	2.71E+00	4.41E+00	pCi/L	U
2141	650995002	1/8/2024	Thorium-230	1.30E+02	6.06E+02	1.94E+03	pCi/L	U
2141	654188002	2/5/2024	Thorium-230	1.88E+03	7.04E+02	1.43E+03	pCi/L	UI
2141	657417002	3/5/2024	Thorium-230	2.23E+02	2.39E+02	8.17E+02	pCi/L	U
2141	660794003	4/2/2024	Thorium-230	-2.20E+03	7.72E+02	2.15E+03	pCi/L	U
2141	665205002	4/30/2024	Thorium-230	-1.98E+02	3.77E+02	1.22E+03	pCi/L	U
2141	669063003	5/28/2024	Thorium-230	-4.94E+02	2.18E+02	6.53E+02	pCi/L	U
2141	672774002	6/25/2024	Thorium-230	-2.00E+02	4.67E+02	1.36E+03	pCi/L	U
2141	676803002	7/23/2024	Thorium-230	2.20E+03	1.01E+03	2.20E+03	pCi/L	U
2141	681489003	8/20/2024	Thorium-230	-1.18E+03	6.34E+02	1.93E+03	pCi/L	U
2141	685843003	9/17/2024	Thorium-230	5.03E+02	4.43E+02	1.46E+03	pCi/L	U
2141	690094002	10/15/2024	Thorium-230	-5.57E+01	2.99E+02	9.24E+02	pCi/L	U
2141	694912002	11/13/2024	Thorium-230	-1.87E+02	1.98E+02	6.55E+02	pCi/L	U
2141	699434003	12/10/2024	Thorium-230	-1.51E+01	2.93E+02	9.07E+02	pCi/L	U
2141	650995002	1/8/2024	Thorium-232	2.86E+02	1.40E+03	4.14E+03	pCi/L	U
2141	654188002	2/5/2024	Thorium-232	2.95E+02	1.12E+03	2.46E+03	pCi/L	U
2141	657417002	3/5/2024	Thorium-232	1.09E+03	6.87E+02	1.07E+03	pCi/L	UI
2141	660794003	4/2/2024	Thorium-232	2.03E+02	2.77E+03	4.40E+03	pCi/L	U
2141	665205002	4/30/2024	Thorium-232	1.77E+03	1.22E+03	2.25E+03	pCi/L	U
2141	669063003	5/28/2024	Thorium-232	-3.39E+02	4.49E+02	1.47E+03	pCi/L	U
2141	672774002	6/25/2024	Thorium-232	7.19E+03	1.89E+03	2.20E+03	pCi/L	UI
2141	676803002	7/23/2024	Thorium-232	3.26E+03	2.21E+03	3.95E+03	pCi/L	U
2141	681489003	8/20/2024	Thorium-232	1.19E+03	2.64E+03	4.00E+03	pCi/L	U
2141	685843003	9/17/2024	Thorium-232	-1.36E+03	8.93E+02	2.74E+03	pCi/L	U
2141	690094002	10/15/2024	Thorium-232	-2.87E+02	8.30E+02	1.92E+03	pCi/L	U
2141	694912002	11/13/2024	Thorium-232	2.01E+02	7.06E+02	1.04E+03	pCi/L	U
2141	699434003	12/10/2024	Thorium-232	2.66E+02	9.99E+02	1.68E+03	pCi/L	U
2141	650995002	1/8/2024	Thorium-234	-1.10E+02	1.04E+02	2.92E+02	pCi/L	U
2141	654188002	2/5/2024	Thorium-234	2.07E+01	7.84E+01	1.77E+02	pCi/L	U
2141	657417002	3/5/2024	Thorium-234	7.64E+01	4.83E+01	7.51E+01	pCi/L	UI
2141	660794003	4/2/2024	Thorium-234	1.42E+01	1.95E+02	3.21E+02	pCi/L	U
2141	665205002	4/30/2024	Thorium-234	1.24E+02	8.54E+01	1.44E+02	pCi/L	U
2141	669063003	5/28/2024	Thorium-234	-8.80E+00	3.26E+01	1.09E+02	pCi/L	U
2141	672774002	6/25/2024	Thorium-234	8.49E+01	6.25E+01	2.15E+02	pCi/L	U
2141	676803002	7/23/2024	Thorium-234	2.29E+02	1.55E+02	3.53E+02	pCi/L	U
2141	681489003	8/20/2024	Thorium-234	8.37E+01	1.86E+02	3.62E+02	pCi/L	U
2141	685843003	9/17/2024	Thorium-234	-6.25E+01	6.36E+01	2.01E+02	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	690094002	10/15/2024	Thorium-234	-5.06E+01	6.17E+01	1.42E+02	pCi/L	U
2141	694912002	11/13/2024	Thorium-234	1.42E+01	4.96E+01	7.30E+01	pCi/L	U
2141	699434003	12/10/2024	Thorium-234	1.87E+01	7.02E+01	1.21E+02	pCi/L	U
2141	664024002	3/5/2024	Tritium	4.94E+02	2.33E+02	6.89E+02	pCi/L	U
2141	695234003	9/17/2024	Tritium	-1.21E+01	2.60E+02	8.55E+02	pCi/L	U
2141	705723003	12/10/2024	Tritium	3.62E+02	2.44E+02	7.36E+02	pCi/L	U
2141	650995002	1/8/2024	Uranium-234	1.07E+04	7.51E+03	1.68E+04	pCi/L	U
2141	654188002	2/5/2024	Uranium-234	6.82E+03	5.77E+03	9.31E+03	pCi/L	U
2141	657417002	3/5/2024	Uranium-234	-2.16E+02	8.06E+02	2.41E+03	pCi/L	U
2141	660794003	4/2/2024	Uranium-234	3.14E+03	7.43E+03	2.60E+04	pCi/L	U
2141	665205002	4/30/2024	Uranium-234	7.83E+03	4.27E+03	7.51E+03	pCi/L	UI
2141	669063003	5/28/2024	Uranium-234	2.64E+03	1.79E+03	3.04E+03	pCi/L	U
2141	672774002	6/25/2024	Uranium-234	-7.02E+02	3.00E+03	9.98E+03	pCi/L	U
2141	676803002	7/23/2024	Uranium-234	1.69E+03	5.98E+03	2.06E+04	pCi/L	U
2141	681489003	8/20/2024	Uranium-234	-2.27E+03	6.81E+03	2.27E+04	pCi/L	U
2141	685843003	9/17/2024	Uranium-234	2.21E+03	2.66E+03	9.32E+03	pCi/L	U
2141	690094002	10/15/2024	Uranium-234	1.31E+04	4.30E+03	8.17E+03	pCi/L	UI
2141	694912002	11/13/2024	Uranium-234	6.14E+03	2.20E+03	2.12E+03	pCi/L	UI
2141	699434003	12/10/2024	Uranium-234	1.16E+03	2.03E+03	6.98E+03	pCi/L	U
2141	650995002	1/8/2024	Zinc-65	1.83E+00	2.17E+00	7.90E+00	pCi/L	U
2141	654188002	2/5/2024	Zinc-65	1.50E+00	2.08E+00	7.58E+00	pCi/L	U
2141	657417002	3/5/2024	Zinc-65	-6.62E+00	4.55E+00	9.83E+00	pCi/L	U
2141	660794003	4/2/2024	Zinc-65	2.75E+00	2.84E+00	1.01E+01	pCi/L	U
2141	665205002	4/30/2024	Zinc-65	-1.67E+00	1.89E+00	5.71E+00	pCi/L	U
2141	669063003	5/28/2024	Zinc-65	-3.36E-01	1.39E+00	3.67E+00	pCi/L	U
2141	672774002	6/25/2024	Zinc-65	-4.77E+00	1.95E+00	4.29E+00	pCi/L	U
2141	676803002	7/23/2024	Zinc-65	-1.79E+00	3.04E+00	9.68E+00	pCi/L	U
2141	681489003	8/20/2024	Zinc-65	3.10E+00	2.01E+00	8.15E+00	pCi/L	U
2141	685843003	9/17/2024	Zinc-65	5.11E+00	2.12E+00	6.99E+00	pCi/L	U
2141	690094002	10/15/2024	Zinc-65	-4.34E-01	1.08E+00	3.56E+00	pCi/L	U
2141	694912002	11/13/2024	Zinc-65	-4.02E-01	3.03E+00	9.94E+00	pCi/L	U
2141	699434003	12/10/2024	Zinc-65	1.11E+00	1.34E+00	4.86E+00	pCi/L	U
2141	650995002	1/8/2024	Zirconium-95	-3.40E+00	1.92E+00	5.12E+00	pCi/L	U
2141	654188002	2/5/2024	Zirconium-95	5.79E+00	2.88E+00	5.90E+00	pCi/L	U
2141	657417002	3/5/2024	Zirconium-95	-4.79E-01	2.86E+00	9.32E+00	pCi/L	U
2141	660794003	4/2/2024	Zirconium-95	1.28E+00	2.27E+00	7.84E+00	pCi/L	U
2141	665205002	4/30/2024	Zirconium-95	-6.00E-01	1.94E+00	6.06E+00	pCi/L	U
2141	669063003	5/28/2024	Zirconium-95	-1.21E+00	1.28E+00	3.62E+00	pCi/L	U
2141	672774002	6/25/2024	Zirconium-95	3.83E-01	2.23E+00	6.60E+00	pCi/L	U
2141	676803002	7/23/2024	Zirconium-95	2.19E+00	2.22E+00	7.90E+00	pCi/L	U
2141	681489003	8/20/2024	Zirconium-95	2.17E+00	2.34E+00	8.26E+00	pCi/L	U
2141	685843003	9/17/2024	Zirconium-95	1.29E-01	2.57E+00	7.58E+00	pCi/L	U
2141	690094002	10/15/2024	Zirconium-95	6.68E-01	8.02E-01	2.75E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2141	694912002	11/13/2024	Zirconium-95	3.65E-02	2.32E+00	7.44E+00	pCi/L	U
2141	699434003	12/10/2024	Zirconium-95	1.41E+00	1.57E+00	5.40E+00	pCi/L	U
2142	650995001	1/8/2024	Actinium-228	-8.55E+00	5.71E+00	1.67E+01	pCi/L	U
2142	654188003	2/5/2024	Actinium-228	4.08E+00	4.05E+00	1.45E+01	pCi/L	U
2142	657417003	3/6/2024	Actinium-228	2.25E+01	7.52E+00	1.97E+01	pCi/L	UI
2142	660794001	4/3/2024	Actinium-228	-4.68E+00	7.73E+00	2.35E+01	pCi/L	U
2142	665205003	5/1/2024	Actinium-228	-1.69E-01	4.39E+00	1.40E+01	pCi/L	U
2142	669063001	5/29/2024	Actinium-228	1.52E+01	8.75E+00	1.99E+01	pCi/L	U
2142	672774001	6/24/2024	Actinium-228	-5.32E+00	8.23E+00	2.28E+01	pCi/L	U
2142	676803003	7/24/2024	Actinium-228	5.52E-01	3.95E+00	1.31E+01	pCi/L	U
2142	681489002	8/20/2024	Actinium-228	4.44E+01	8.24E+00	2.78E+01	pCi/L	UI
2142	685843002	9/16/2024	Actinium-228	-4.11E+00	5.26E+00	1.69E+01	pCi/L	U
2142	699434001	12/12/2024	Actinium-228	-3.75E-01	3.38E+00	7.28E+00	pCi/L	U
2142	650995001	1/8/2024	Americium-241	-6.98E+00	1.17E+01	3.27E+01	pCi/L	U
2142	654188003	2/5/2024	Americium-241	-5.30E+00	4.99E+00	1.34E+01	pCi/L	U
2142	657417003	3/6/2024	Americium-241	-5.13E-01	6.52E+00	2.13E+01	pCi/L	U
2142	660794001	4/3/2024	Americium-241	6.83E-01	2.45E+00	8.15E+00	pCi/L	U
2142	665205003	5/1/2024	Americium-241	-2.28E+00	3.50E+00	1.11E+01	pCi/L	U
2142	669063001	5/29/2024	Americium-241	3.18E+00	6.24E+00	2.14E+01	pCi/L	U
2142	672774001	6/24/2024	Americium-241	5.36E+00	1.23E+01	4.30E+01	pCi/L	U
2142	676803003	7/24/2024	Americium-241	-4.02E+00	6.22E+00	2.03E+01	pCi/L	U
2142	681489002	8/20/2024	Americium-241	-2.96E+00	2.56E+00	7.94E+00	pCi/L	U
2142	685843002	9/16/2024	Americium-241	5.61E+00	5.12E+00	1.82E+01	pCi/L	U
2142	699434001	12/12/2024	Americium-241	1.06E+00	1.54E+00	4.85E+00	pCi/L	U
2142	650995001	1/8/2024	Antimony-124	5.40E+00	2.86E+00	1.11E+01	pCi/L	U
2142	654188003	2/5/2024	Antimony-124	1.71E+00	2.05E+00	7.80E+00	pCi/L	U
2142	657417003	3/6/2024	Antimony-124	5.20E+00	1.89E+00	8.81E+00	pCi/L	U
2142	660794001	4/3/2024	Antimony-124	-4.49E+00	3.40E+00	7.23E+00	pCi/L	U
2142	665205003	5/1/2024	Antimony-124	-4.36E-01	1.83E+00	5.68E+00	pCi/L	U
2142	669063001	5/29/2024	Antimony-124	1.25E+00	2.18E+00	7.86E+00	pCi/L	U
2142	672774001	6/24/2024	Antimony-124	5.39E-02	3.23E+00	1.05E+01	pCi/L	U
2142	676803003	7/24/2024	Antimony-124	-1.49E-01	2.29E+00	7.38E+00	pCi/L	U
2142	681489002	8/20/2024	Antimony-124	-2.27E+00	3.24E+00	8.64E+00	pCi/L	U
2142	685843002	9/16/2024	Antimony-124	1.10E+00	3.56E+00	1.19E+01	pCi/L	U
2142	699434001	12/12/2024	Antimony-124	-7.53E-02	1.15E+00	3.76E+00	pCi/L	U
2142	650995001	1/8/2024	Antimony-125	4.01E+00	3.14E+00	1.07E+01	pCi/L	U
2142	654188003	2/5/2024	Antimony-125	-4.23E-01	2.78E+00	8.84E+00	pCi/L	U
2142	657417003	3/6/2024	Antimony-125	1.04E+00	2.51E+00	8.62E+00	pCi/L	U
2142	660794001	4/3/2024	Antimony-125	4.36E-01	3.54E+00	1.17E+01	pCi/L	U
2142	665205003	5/1/2024	Antimony-125	-2.56E+00	2.41E+00	7.34E+00	pCi/L	U
2142	669063001	5/29/2024	Antimony-125	1.49E-01	3.03E+00	1.03E+01	pCi/L	U
2142	672774001	6/24/2024	Antimony-125	-2.92E+00	3.13E+00	9.81E+00	pCi/L	U
2142	676803003	7/24/2024	Antimony-125	-2.98E+00	2.46E+00	7.55E+00	pCi/L	U

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Company: Tennessee Valley Authority		Plant: Sequoyah	

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	681489002	8/20/2024	Antimony-125	1.29E+01	6.86E+00	1.68E+01	pCi/L	U
2142	685843002	9/16/2024	Antimony-125	8.49E-02	2.66E+00	8.01E+00	pCi/L	U
2142	699434001	12/12/2024	Antimony-125	-2.75E-01	1.26E+00	4.22E+00	pCi/L	U
2142	650995001	1/8/2024	Barium-140	-4.75E+00	7.30E+00	2.04E+01	pCi/L	U
2142	654188003	2/5/2024	Barium-140	1.16E+01	7.20E+00	2.56E+01	pCi/L	U
2142	657417003	3/6/2024	Barium-140	-5.78E+00	5.50E+00	1.67E+01	pCi/L	U
2142	660794001	4/3/2024	Barium-140	-1.41E+01	1.22E+01	3.01E+01	pCi/L	U
2142	665205003	5/1/2024	Barium-140	4.14E+00	6.39E+00	2.02E+01	pCi/L	U
2142	669063001	5/29/2024	Barium-140	4.27E+00	6.30E+00	2.19E+01	pCi/L	U
2142	672774001	6/24/2024	Barium-140	-6.97E+00	8.26E+00	2.55E+01	pCi/L	U
2142	676803003	7/24/2024	Barium-140	5.18E+00	3.83E+00	1.43E+01	pCi/L	U
2142	681489002	8/20/2024	Barium-140	4.28E+00	9.96E+00	3.28E+01	pCi/L	U
2142	685843002	9/16/2024	Barium-140	-2.28E+00	6.27E+00	1.98E+01	pCi/L	U
2142	699434001	12/12/2024	Barium-140	-2.06E+00	3.08E+00	9.93E+00	pCi/L	U
2142	650995001	1/8/2024	Beryllium-7	7.35E+00	9.62E+00	3.05E+01	pCi/L	U
2142	654188003	2/5/2024	Beryllium-7	-4.02E+00	8.98E+00	2.77E+01	pCi/L	U
2142	657417003	3/6/2024	Beryllium-7	-2.39E+00	9.01E+00	2.94E+01	pCi/L	U
2142	660794001	4/3/2024	Beryllium-7	-2.40E+00	1.43E+01	4.54E+01	pCi/L	U
2142	665205003	5/1/2024	Beryllium-7	2.76E-02	9.22E+00	3.07E+01	pCi/L	U
2142	669063001	5/29/2024	Beryllium-7	9.14E+00	1.02E+01	3.48E+01	pCi/L	U
2142	672774001	6/24/2024	Beryllium-7	-3.90E+00	9.90E+00	3.21E+01	pCi/L	U
2142	676803003	7/24/2024	Beryllium-7	7.22E+00	7.04E+00	2.55E+01	pCi/L	U
2142	681489002	8/20/2024	Beryllium-7	-1.62E+01	1.39E+01	3.92E+01	pCi/L	U
2142	685843002	9/16/2024	Beryllium-7	3.22E+00	1.12E+01	3.78E+01	pCi/L	U
2142	699434001	12/12/2024	Beryllium-7	2.54E+00	3.74E+00	1.29E+01	pCi/L	U
2142	650995001	1/8/2024	BETA	2.40E+00	1.21E+00	3.54E+00	pCi/L	U
2142	654188003	2/5/2024	BETA	2.26E+00	1.00E+00	2.81E+00	pCi/L	U
2142	657417003	3/6/2024	BETA	-1.85E-01	7.54E-01	2.52E+00	pCi/L	U
2142	660794001	4/3/2024	BETA	5.02E-01	8.44E-01	2.65E+00	pCi/L	U
2142	665205003	5/1/2024	BETA	1.03E+00	8.99E-01	2.71E+00	pCi/L	U
2142	669063001	5/29/2024	BETA	2.07E+00	8.78E-01	2.30E+00	pCi/L	U
2142	672774001	6/24/2024	BETA	1.07E+00	8.25E-01	2.44E+00	pCi/L	U
2142	676803003	7/24/2024	BETA	-4.31E-01	7.78E-01	2.66E+00	pCi/L	U
2142	681489002	8/20/2024	BETA	1.38E+00	9.22E-01	2.75E+00	pCi/L	U
2142	685843002	9/16/2024	BETA	1.10E+00	8.92E-01	2.68E+00	pCi/L	U
2142	699434001	12/12/2024	BETA	1.93E+00	1.02E+00	3.09E+00	pCi/L	U
2142	650995001	1/8/2024	Bismuth-214	1.55E+00	4.67E+00	8.80E+00	pCi/L	U
2142	654188003	2/5/2024	Bismuth-214	6.56E+00	4.78E+00	1.09E+01	pCi/L	U
2142	657417003	3/6/2024	Bismuth-214	3.77E+00	4.63E+00	6.98E+00	pCi/L	U
2142	660794001	4/3/2024	Bismuth-214	7.50E+00	6.45E+00	1.55E+01	pCi/L	U
2142	665205003	5/1/2024	Bismuth-214	6.15E+00	3.63E+00	1.02E+01	pCi/L	U
2142	669063001	5/29/2024	Bismuth-214	1.11E+00	3.58E+00	9.79E+00	pCi/L	U
2142	672774001	6/24/2024	Bismuth-214	1.03E+01	5.36E+00	1.21E+01	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	676803003	7/24/2024	Bismuth-214	8.54E+00	3.76E+00	6.35E+00	pCi/L	UI
2142	681489002	8/20/2024	Bismuth-214	2.37E+00	4.59E+00	1.66E+01	pCi/L	U
2142	685843002	9/16/2024	Bismuth-214	1.13E+01	4.04E+00	6.75E+00	pCi/L	UI
2142	699434001	12/12/2024	Bismuth-214	1.07E+01	2.16E+00	3.29E+00	pCi/L	
2142	650995001	1/8/2024	Cerium-141	1.19E+01	4.56E+00	5.54E+00	pCi/L	UI
2142	654188003	2/5/2024	Cerium-141	-2.07E+00	1.72E+00	5.47E+00	pCi/L	U
2142	657417003	3/6/2024	Cerium-141	2.16E+00	1.97E+00	6.15E+00	pCi/L	U
2142	660794001	4/3/2024	Cerium-141	-5.77E-01	2.67E+00	8.30E+00	pCi/L	U
2142	665205003	5/1/2024	Cerium-141	-7.51E-01	1.96E+00	6.10E+00	pCi/L	U
2142	669063001	5/29/2024	Cerium-141	-1.19E+00	2.27E+00	7.19E+00	pCi/L	U
2142	672774001	6/24/2024	Cerium-141	-5.57E+00	2.51E+00	7.26E+00	pCi/L	U
2142	676803003	7/24/2024	Cerium-141	1.74E+00	2.96E+00	5.39E+00	pCi/L	U
2142	681489002	8/20/2024	Cerium-141	2.60E+00	2.88E+00	9.16E+00	pCi/L	U
2142	685843002	9/16/2024	Cerium-141	3.13E+00	2.09E+00	7.24E+00	pCi/L	U
2142	699434001	12/12/2024	Cerium-141	-1.41E+00	9.24E-01	2.85E+00	pCi/L	U
2142	650995001	1/8/2024	Cerium-144	6.78E+00	7.03E+00	2.45E+01	pCi/L	U
2142	654188003	2/5/2024	Cerium-144	-4.00E+00	5.99E+00	1.97E+01	pCi/L	U
2142	657417003	3/6/2024	Cerium-144	-2.26E+00	6.94E+00	2.18E+01	pCi/L	U
2142	660794001	4/3/2024	Cerium-144	-1.76E+00	9.09E+00	2.80E+01	pCi/L	U
2142	665205003	5/1/2024	Cerium-144	9.51E+00	6.58E+00	2.25E+01	pCi/L	U
2142	669063001	5/29/2024	Cerium-144	-6.11E+00	7.60E+00	2.38E+01	pCi/L	U
2142	672774001	6/24/2024	Cerium-144	-1.48E+01	9.26E+00	2.82E+01	pCi/L	U
2142	676803003	7/24/2024	Cerium-144	-4.90E+00	6.96E+00	2.19E+01	pCi/L	U
2142	681489002	8/20/2024	Cerium-144	1.04E+01	1.04E+01	3.18E+01	pCi/L	U
2142	685843002	9/16/2024	Cerium-144	8.30E-01	6.55E+00	2.14E+01	pCi/L	U
2142	699434001	12/12/2024	Cerium-144	1.03E+01	3.29E+00	1.08E+01	pCi/L	U
2142	650995001	1/8/2024	Cesium-134	1.50E+00	1.19E+00	4.24E+00	pCi/L	U
2142	654188003	2/5/2024	Cesium-134	1.47E+00	1.20E+00	4.40E+00	pCi/L	U
2142	657417003	3/6/2024	Cesium-134	3.68E-01	9.60E-01	3.22E+00	pCi/L	U
2142	660794001	4/3/2024	Cesium-134	-1.78E+00	1.68E+00	4.89E+00	pCi/L	U
2142	665205003	5/1/2024	Cesium-134	-1.72E+00	1.06E+00	2.68E+00	pCi/L	U
2142	669063001	5/29/2024	Cesium-134	2.45E+00	1.36E+00	4.77E+00	pCi/L	U
2142	672774001	6/24/2024	Cesium-134	1.49E+00	1.34E+00	4.88E+00	pCi/L	U
2142	676803003	7/24/2024	Cesium-134	-1.49E+00	1.22E+00	2.87E+00	pCi/L	U
2142	681489002	8/20/2024	Cesium-134	-2.98E-01	1.82E+00	5.91E+00	pCi/L	U
2142	685843002	9/16/2024	Cesium-134	-1.22E+00	1.24E+00	3.47E+00	pCi/L	U
2142	699434001	12/12/2024	Cesium-134	-3.44E-01	5.34E-01	1.67E+00	pCi/L	U
2142	650995001	1/8/2024	Cesium-137	4.04E-01	1.17E+00	3.95E+00	pCi/L	U
2142	654188003	2/5/2024	Cesium-137	3.57E-01	1.11E+00	3.43E+00	pCi/L	U
2142	657417003	3/6/2024	Cesium-137	-7.37E-01	1.14E+00	3.13E+00	pCi/L	U
2142	660794001	4/3/2024	Cesium-137	-4.05E+00	1.80E+00	4.79E+00	pCi/L	U
2142	665205003	5/1/2024	Cesium-137	2.80E-01	8.37E-01	2.84E+00	pCi/L	U
2142	669063001	5/29/2024	Cesium-137	1.74E+00	1.13E+00	4.19E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	672774001	6/24/2024	Cesium-137	-9.34E-01	1.37E+00	4.20E+00	pCi/L	U
2142	676803003	7/24/2024	Cesium-137	2.43E+00	1.34E+00	1.02E+00	pCi/L	UI
2142	681489002	8/20/2024	Cesium-137	2.05E+00	1.81E+00	6.66E+00	pCi/L	U
2142	685843002	9/16/2024	Cesium-137	5.78E-01	1.21E+00	4.10E+00	pCi/L	U
2142	699434001	12/12/2024	Cesium-137	2.78E-01	4.68E-01	1.58E+00	pCi/L	U
2142	650995001	1/8/2024	Chromium-51	7.18E+00	1.03E+01	3.45E+01	pCi/L	U
2142	654188003	2/5/2024	Chromium-51	-4.47E+00	1.04E+01	3.32E+01	pCi/L	U
2142	657417003	3/6/2024	Chromium-51	-1.34E+01	9.14E+00	2.84E+01	pCi/L	U
2142	660794001	4/3/2024	Chromium-51	1.44E+00	1.55E+01	5.17E+01	pCi/L	U
2142	665205003	5/1/2024	Chromium-51	7.52E+00	1.01E+01	3.58E+01	pCi/L	U
2142	669063001	5/29/2024	Chromium-51	1.96E+01	1.07E+01	3.98E+01	pCi/L	U
2142	672774001	6/24/2024	Chromium-51	2.17E+00	1.44E+01	4.55E+01	pCi/L	U
2142	676803003	7/24/2024	Chromium-51	-2.67E+00	8.70E+00	2.93E+01	pCi/L	U
2142	681489002	8/20/2024	Chromium-51	-1.19E+01	1.35E+01	4.18E+01	pCi/L	U
2142	685843002	9/16/2024	Chromium-51	-2.68E+01	1.19E+01	3.49E+01	pCi/L	U
2142	699434001	12/12/2024	Chromium-51	6.47E-01	4.61E+00	1.58E+01	pCi/L	U
2142	650995001	1/8/2024	Cobalt-57	3.61E-02	9.15E-01	3.11E+00	pCi/L	U
2142	654188003	2/5/2024	Cobalt-57	-5.72E-01	8.73E-01	2.89E+00	pCi/L	U
2142	657417003	3/6/2024	Cobalt-57	-5.89E-01	9.78E-01	3.04E+00	pCi/L	U
2142	660794001	4/3/2024	Cobalt-57	-1.28E+00	1.07E+00	3.17E+00	pCi/L	U
2142	665205003	5/1/2024	Cobalt-57	9.97E-01	8.54E-01	2.89E+00	pCi/L	U
2142	669063001	5/29/2024	Cobalt-57	6.43E-01	1.03E+00	3.46E+00	pCi/L	U
2142	672774001	6/24/2024	Cobalt-57	1.56E+00	1.29E+00	4.49E+00	pCi/L	U
2142	676803003	7/24/2024	Cobalt-57	-4.54E-01	8.53E-01	2.72E+00	pCi/L	U
2142	681489002	8/20/2024	Cobalt-57	-9.04E-01	1.15E+00	3.47E+00	pCi/L	U
2142	685843002	9/16/2024	Cobalt-57	1.27E-03	8.95E-01	2.91E+00	pCi/L	U
2142	699434001	12/12/2024	Cobalt-57	5.47E-01	4.55E-01	1.32E+00	pCi/L	U
2142	650995001	1/8/2024	Cobalt-58	-4.76E-01	1.06E+00	3.32E+00	pCi/L	U
2142	654188003	2/5/2024	Cobalt-58	7.22E-01	9.41E-01	3.38E+00	pCi/L	U
2142	657417003	3/6/2024	Cobalt-58	-9.54E-01	1.03E+00	2.97E+00	pCi/L	U
2142	660794001	4/3/2024	Cobalt-58	-2.99E+00	1.66E+00	4.28E+00	pCi/L	U
2142	665205003	5/1/2024	Cobalt-58	1.29E-01	1.03E+00	3.37E+00	pCi/L	U
2142	669063001	5/29/2024	Cobalt-58	1.44E+00	1.05E+00	3.86E+00	pCi/L	U
2142	672774001	6/24/2024	Cobalt-58	1.34E+00	1.15E+00	4.25E+00	pCi/L	U
2142	676803003	7/24/2024	Cobalt-58	7.73E-01	7.44E-01	2.72E+00	pCi/L	U
2142	681489002	8/20/2024	Cobalt-58	3.35E-01	1.51E+00	5.12E+00	pCi/L	U
2142	685843002	9/16/2024	Cobalt-58	-4.19E-01	1.22E+00	3.73E+00	pCi/L	U
2142	699434001	12/12/2024	Cobalt-58	-6.50E-01	5.05E-01	1.51E+00	pCi/L	U
2142	650995001	1/8/2024	Cobalt-60	1.45E-01	1.02E+00	3.45E+00	pCi/L	U
2142	654188003	2/5/2024	Cobalt-60	-7.31E-02	7.87E-01	2.51E+00	pCi/L	U
2142	657417003	3/6/2024	Cobalt-60	-2.06E-01	9.74E-01	3.16E+00	pCi/L	U
2142	660794001	4/3/2024	Cobalt-60	1.09E+00	1.37E+00	5.09E+00	pCi/L	U
2142	665205003	5/1/2024	Cobalt-60	-2.77E-01	8.00E-01	2.52E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	669063001	5/29/2024	Cobalt-60	-1.43E+00	1.27E+00	3.68E+00	pCi/L	U
2142	672774001	6/24/2024	Cobalt-60	-6.67E-01	1.42E+00	4.42E+00	pCi/L	U
2142	676803003	7/24/2024	Cobalt-60	9.49E-01	9.03E-01	3.43E+00	pCi/L	U
2142	681489002	8/20/2024	Cobalt-60	2.59E+00	1.89E+00	6.94E+00	pCi/L	U
2142	685843002	9/16/2024	Cobalt-60	1.25E+00	1.10E+00	4.11E+00	pCi/L	U
2142	699434001	12/12/2024	Cobalt-60	-1.69E-01	5.07E-01	1.45E+00	pCi/L	U
2142	672774001	6/24/2024	Iodine-131	-7.14E-02	3.48E+00	1.19E+01	pCi/L	U
2142	699434001	12/12/2024	Iodine-131	1.54E+00	1.26E+00	4.28E+00	pCi/L	U
2142	650995001	1/8/2024	Iron-59	1.64E+00	2.23E+00	7.96E+00	pCi/L	U
2142	654188003	2/5/2024	Iron-59	3.75E+00	2.26E+00	8.64E+00	pCi/L	U
2142	657417003	3/6/2024	Iron-59	1.61E+00	1.93E+00	7.05E+00	pCi/L	U
2142	660794001	4/3/2024	Iron-59	5.56E+00	3.86E+00	1.47E+01	pCi/L	U
2142	665205003	5/1/2024	Iron-59	-1.56E+00	1.59E+00	4.60E+00	pCi/L	U
2142	669063001	5/29/2024	Iron-59	-2.28E-01	2.19E+00	7.36E+00	pCi/L	U
2142	672774001	6/24/2024	Iron-59	8.45E+00	2.44E+00	1.14E+01	pCi/L	U
2142	676803003	7/24/2024	Iron-59	-2.24E+00	1.87E+00	5.44E+00	pCi/L	U
2142	681489002	8/20/2024	Iron-59	0.00E+00	3.93E+00	1.26E+01	pCi/L	U
2142	685843002	9/16/2024	Iron-59	-3.17E+00	2.14E+00	5.58E+00	pCi/L	U
2142	699434001	12/12/2024	Iron-59	-5.53E-01	9.44E-01	3.09E+00	pCi/L	U
2142	650995001	1/8/2024	Lanthanum-140	-1.27E+00	2.24E+00	6.88E+00	pCi/L	U
2142	654188003	2/5/2024	Lanthanum-140	-2.00E+00	2.02E+00	5.39E+00	pCi/L	U
2142	657417003	3/6/2024	Lanthanum-140	9.78E-01	1.47E+00	5.30E+00	pCi/L	U
2142	660794001	4/3/2024	Lanthanum-140	-2.17E+00	3.37E+00	9.89E+00	pCi/L	U
2142	665205003	5/1/2024	Lanthanum-140	1.10E+00	1.73E+00	6.24E+00	pCi/L	U
2142	669063001	5/29/2024	Lanthanum-140	-2.56E+00	2.12E+00	5.89E+00	pCi/L	U
2142	672774001	6/24/2024	Lanthanum-140	2.42E+00	2.36E+00	9.13E+00	pCi/L	U
2142	676803003	7/24/2024	Lanthanum-140	-5.18E-01	1.64E+00	5.13E+00	pCi/L	U
2142	681489002	8/20/2024	Lanthanum-140	-6.75E+00	3.58E+00	9.55E+00	pCi/L	U
2142	685843002	9/16/2024	Lanthanum-140	1.01E+00	2.08E+00	7.32E+00	pCi/L	U
2142	699434001	12/12/2024	Lanthanum-140	3.96E-01	1.03E+00	3.11E+00	pCi/L	U
2142	650995001	1/8/2024	Lead-210	5.32E+02	4.27E+02	1.20E+03	pCi/L	U
2142	654188003	2/5/2024	Lead-210	-3.02E+01	9.02E+01	2.74E+02	pCi/L	U
2142	657417003	3/6/2024	Lead-210	3.79E+02	2.72E+02	5.71E+02	pCi/L	U
2142	660794001	4/3/2024	Lead-210	2.46E+01	4.10E+01	7.67E+01	pCi/L	U
2142	665205003	5/1/2024	Lead-210	1.02E+02	7.35E+01	1.18E+02	pCi/L	U
2142	669063001	5/29/2024	Lead-210	2.25E+02	3.41E+02	5.44E+02	pCi/L	U
2142	672774001	6/24/2024	Lead-210	-5.76E+02	4.96E+02	1.60E+03	pCi/L	U
2142	676803003	7/24/2024	Lead-210	5.06E+02	3.85E+02	6.09E+02	pCi/L	U
2142	681489002	8/20/2024	Lead-210	1.00E+00	3.37E+01	6.35E+01	pCi/L	U
2142	685843002	9/16/2024	Lead-210	-2.57E+02	1.62E+02	4.88E+02	pCi/L	U
2142	699434001	12/12/2024	Lead-210	4.08E+01	3.33E+01	5.90E+01	pCi/L	U
2142	650995001	1/8/2024	Lead-212	-2.00E+00	2.60E+00	8.10E+00	pCi/L	U
2142	654188003	2/5/2024	Lead-212	3.87E-01	3.26E+00	6.60E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	657417003	3/6/2024	Lead-212	-5.48E-01	2.50E+00	7.75E+00	pCi/L	U
2142	660794001	4/3/2024	Lead-212	9.44E-01	3.11E+00	1.03E+01	pCi/L	U
2142	665205003	5/1/2024	Lead-212	2.22E+00	3.29E+00	7.74E+00	pCi/L	U
2142	669063001	5/29/2024	Lead-212	-7.00E-01	2.61E+00	7.88E+00	pCi/L	U
2142	672774001	6/24/2024	Lead-212	3.86E+00	3.33E+00	9.19E+00	pCi/L	U
2142	676803003	7/24/2024	Lead-212	1.89E+00	3.78E+00	8.00E+00	pCi/L	U
2142	681489002	8/20/2024	Lead-212	2.75E+00	4.84E+00	9.10E+00	pCi/L	U
2142	685843002	9/16/2024	Lead-212	4.10E+00	4.62E+00	5.97E+00	pCi/L	U
2142	699434001	12/12/2024	Lead-212	1.75E+00	2.10E+00	2.74E+00	pCi/L	U
2142	650995001	1/8/2024	Lead-214	1.83E+00	4.65E+00	9.25E+00	pCi/L	U
2142	654188003	2/5/2024	Lead-214	2.84E+00	3.09E+00	1.03E+01	pCi/L	U
2142	657417003	3/6/2024	Lead-214	7.62E+00	3.71E+00	9.77E+00	pCi/L	U
2142	660794001	4/3/2024	Lead-214	6.79E+00	4.09E+00	1.47E+01	pCi/L	U
2142	665205003	5/1/2024	Lead-214	4.36E+00	4.66E+00	9.59E+00	pCi/L	U
2142	669063001	5/29/2024	Lead-214	3.42E+00	3.43E+00	1.12E+01	pCi/L	U
2142	672774001	6/24/2024	Lead-214	2.63E+00	3.67E+00	1.23E+01	pCi/L	U
2142	676803003	7/24/2024	Lead-214	5.75E+00	2.84E+00	9.90E+00	pCi/L	U
2142	681489002	8/20/2024	Lead-214	-4.86E+00	4.65E+00	1.30E+01	pCi/L	U
2142	685843002	9/16/2024	Lead-214	2.68E+00	2.79E+00	9.91E+00	pCi/L	U
2142	699434001	12/12/2024	Lead-214	4.91E+00	2.42E+00	3.13E+00	pCi/L	UI
2142	650995001	1/8/2024	Manganese-54	1.02E-01	1.11E+00	3.64E+00	pCi/L	U
2142	654188003	2/5/2024	Manganese-54	-1.05E+00	9.64E-01	2.87E+00	pCi/L	U
2142	657417003	3/6/2024	Manganese-54	-1.77E+00	1.07E+00	2.84E+00	pCi/L	U
2142	660794001	4/3/2024	Manganese-54	8.56E-01	1.42E+00	5.08E+00	pCi/L	U
2142	665205003	5/1/2024	Manganese-54	1.52E-01	8.87E-01	2.91E+00	pCi/L	U
2142	669063001	5/29/2024	Manganese-54	-1.48E+00	1.17E+00	3.31E+00	pCi/L	U
2142	672774001	6/24/2024	Manganese-54	1.46E+00	1.24E+00	4.51E+00	pCi/L	U
2142	676803003	7/24/2024	Manganese-54	1.46E-01	8.08E-01	2.65E+00	pCi/L	U
2142	681489002	8/20/2024	Manganese-54	-1.26E+00	1.72E+00	5.17E+00	pCi/L	U
2142	685843002	9/16/2024	Manganese-54	1.85E+00	1.13E+00	3.41E+00	pCi/L	U
2142	699434001	12/12/2024	Manganese-54	-3.04E-01	5.13E-01	1.60E+00	pCi/L	U
2142	650995001	1/8/2024	Molybdenum-99	1.39E+01	1.29E+02	4.14E+02	pCi/L	U
2142	654188003	2/5/2024	Molybdenum-99	-6.48E+01	1.06E+02	3.39E+02	pCi/L	U
2142	657417003	3/6/2024	Molybdenum-99	-1.29E+01	4.95E+01	1.56E+02	pCi/L	U
2142	660794001	4/3/2024	Molybdenum-99	-2.89E+02	3.34E+02	8.82E+02	pCi/L	U
2142	665205003	5/1/2024	Molybdenum-99	-6.46E+01	6.63E+01	1.88E+02	pCi/L	U
2142	669063001	5/29/2024	Molybdenum-99	-3.32E+01	6.95E+01	1.91E+02	pCi/L	U
2142	672774001	6/24/2024	Molybdenum-99	1.24E+02	2.06E+02	7.14E+02	pCi/L	U
2142	676803003	7/24/2024	Molybdenum-99	-3.66E+00	3.00E+01	9.60E+01	pCi/L	U
2142	681489002	8/20/2024	Molybdenum-99	5.93E+01	1.04E+02	3.66E+02	pCi/L	U
2142	685843002	9/16/2024	Molybdenum-99	1.59E+02	1.62E+02	5.71E+02	pCi/L	U
2142	699434001	12/12/2024	Molybdenum-99	-7.43E+01	8.54E+01	2.65E+02	pCi/L	U
2142	650995001	1/8/2024	Niobium-95	3.55E-01	1.22E+00	4.09E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	654188003	2/5/2024	Niobium-95	1.51E+00	1.23E+00	4.47E+00	pCi/L	U
2142	657417003	3/6/2024	Niobium-95	-4.71E-01	1.08E+00	3.35E+00	pCi/L	U
2142	660794001	4/3/2024	Niobium-95	2.24E+00	1.76E+00	6.59E+00	pCi/L	U
2142	665205003	5/1/2024	Niobium-95	2.88E+00	1.06E+00	2.22E+00	pCi/L	UI
2142	669063001	5/29/2024	Niobium-95	1.48E-01	1.38E+00	4.51E+00	pCi/L	U
2142	672774001	6/24/2024	Niobium-95	4.64E-01	1.64E+00	4.91E+00	pCi/L	U
2142	676803003	7/24/2024	Niobium-95	-6.20E-01	1.03E+00	3.12E+00	pCi/L	U
2142	681489002	8/20/2024	Niobium-95	9.14E-01	1.98E+00	6.84E+00	pCi/L	U
2142	685843002	9/16/2024	Niobium-95	2.74E-01	1.28E+00	4.17E+00	pCi/L	U
2142	699434001	12/12/2024	Niobium-95	-3.66E-01	5.13E-01	1.60E+00	pCi/L	U
2142	650995001	1/8/2024	Potassium-40	-2.67E+01	1.47E+01	4.48E+01	pCi/L	U
2142	654188003	2/5/2024	Potassium-40	-2.68E+01	1.27E+01	3.79E+01	pCi/L	U
2142	657417003	3/6/2024	Potassium-40	2.28E+01	1.53E+01	5.99E+01	pCi/L	U
2142	660794001	4/3/2024	Potassium-40	2.80E+00	2.31E+01	8.30E+01	pCi/L	U
2142	665205003	5/1/2024	Potassium-40	-2.80E+01	1.52E+01	4.75E+01	pCi/L	U
2142	669063001	5/29/2024	Potassium-40	-1.30E+01	1.44E+01	4.62E+01	pCi/L	U
2142	672774001	6/24/2024	Potassium-40	2.22E+01	2.28E+01	4.42E+01	pCi/L	U
2142	676803003	7/24/2024	Potassium-40	1.47E+01	1.78E+01	3.57E+01	pCi/L	U
2142	681489002	8/20/2024	Potassium-40	-3.62E+01	2.71E+01	7.81E+01	pCi/L	U
2142	685843002	9/16/2024	Potassium-40	2.10E+01	2.10E+01	4.11E+01	pCi/L	U
2142	699434001	12/12/2024	Potassium-40	1.98E+01	1.08E+01	1.26E+01	pCi/L	UI
2142	650995001	1/8/2024	Radium-226	-1.18E+01	3.36E+01	1.12E+02	pCi/L	U
2142	654188003	2/5/2024	Radium-226	5.65E+01	4.16E+01	7.19E+01	pCi/L	U
2142	657417003	3/6/2024	Radium-226	-6.55E+01	3.02E+01	9.46E+01	pCi/L	U
2142	660794001	4/3/2024	Radium-226	4.54E+01	4.86E+01	8.91E+01	pCi/L	U
2142	665205003	5/1/2024	Radium-226	4.28E-01	2.72E+01	9.40E+01	pCi/L	U
2142	669063001	5/29/2024	Radium-226	9.05E+00	3.20E+01	1.03E+02	pCi/L	U
2142	672774001	6/24/2024	Radium-226	-9.00E+01	3.43E+01	1.09E+02	pCi/L	U
2142	676803003	7/24/2024	Radium-226	1.33E+01	4.18E+01	1.03E+02	pCi/L	U
2142	681489002	8/20/2024	Radium-226	2.89E+01	5.01E+01	1.22E+02	pCi/L	U
2142	685843002	9/16/2024	Radium-226	2.01E+01	4.79E+01	6.83E+01	pCi/L	U
2142	699434001	12/12/2024	Radium-226	3.27E+01	2.21E+01	2.99E+01	pCi/L	UI
2142	650995001	1/8/2024	Radium-228	-8.55E+00	5.71E+00	1.67E+01	pCi/L	U
2142	654188003	2/5/2024	Radium-228	4.08E+00	4.05E+00	1.45E+01	pCi/L	U
2142	657417003	3/6/2024	Radium-228	2.25E+01	7.52E+00	1.97E+01	pCi/L	UI
2142	660794001	4/3/2024	Radium-228	-4.68E+00	7.73E+00	2.35E+01	pCi/L	U
2142	665205003	5/1/2024	Radium-228	-1.69E-01	4.39E+00	1.40E+01	pCi/L	U
2142	669063001	5/29/2024	Radium-228	1.52E+01	8.75E+00	1.99E+01	pCi/L	U
2142	672774001	6/24/2024	Radium-228	-5.32E+00	8.23E+00	2.28E+01	pCi/L	U
2142	676803003	7/24/2024	Radium-228	5.52E-01	3.95E+00	1.31E+01	pCi/L	U
2142	681489002	8/20/2024	Radium-228	4.44E+01	8.24E+00	2.78E+01	pCi/L	UI
2142	685843002	9/16/2024	Radium-228	-4.11E+00	5.26E+00	1.69E+01	pCi/L	U
2142	699434001	12/12/2024	Radium-228	-3.75E-01	3.38E+00	7.28E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	650995001	1/8/2024	Ruthenium-103	-6.94E-01	1.15E+00	3.75E+00	pCi/L	U
2142	654188003	2/5/2024	Ruthenium-103	3.29E+00	2.00E+00	2.02E+00	pCi/L	UI
2142	657417003	3/6/2024	Ruthenium-103	3.33E-01	1.11E+00	3.74E+00	pCi/L	U
2142	660794001	4/3/2024	Ruthenium-103	1.16E-01	1.60E+00	5.19E+00	pCi/L	U
2142	665205003	5/1/2024	Ruthenium-103	8.14E-02	9.01E-01	3.01E+00	pCi/L	U
2142	669063001	5/29/2024	Ruthenium-103	-4.16E-01	1.12E+00	3.63E+00	pCi/L	U
2142	672774001	6/24/2024	Ruthenium-103	-3.13E-01	1.18E+00	3.85E+00	pCi/L	U
2142	676803003	7/24/2024	Ruthenium-103	-1.80E+00	1.16E+00	3.17E+00	pCi/L	U
2142	681489002	8/20/2024	Ruthenium-103	8.28E-01	1.74E+00	5.79E+00	pCi/L	U
2142	685843002	9/16/2024	Ruthenium-103	-9.25E-02	1.22E+00	4.00E+00	pCi/L	U
2142	699434001	12/12/2024	Ruthenium-103	6.70E-01	5.23E-01	1.83E+00	pCi/L	U
2142	650995001	1/8/2024	Ruthenium-106	-3.88E+00	7.42E+00	2.37E+01	pCi/L	U
2142	654188003	2/5/2024	Ruthenium-106	1.34E+01	1.03E+01	3.77E+01	pCi/L	U
2142	657417003	3/6/2024	Ruthenium-106	-1.14E+01	9.72E+00	2.87E+01	pCi/L	U
2142	660794001	4/3/2024	Ruthenium-106	-1.47E+01	1.54E+01	4.36E+01	pCi/L	U
2142	665205003	5/1/2024	Ruthenium-106	-1.17E+00	8.63E+00	2.79E+01	pCi/L	U
2142	669063001	5/29/2024	Ruthenium-106	2.66E+00	1.07E+01	3.60E+01	pCi/L	U
2142	672774001	6/24/2024	Ruthenium-106	-1.87E+01	1.11E+01	3.00E+01	pCi/L	U
2142	676803003	7/24/2024	Ruthenium-106	-3.31E+00	8.07E+00	2.55E+01	pCi/L	U
2142	681489002	8/20/2024	Ruthenium-106	-2.67E+01	1.45E+01	3.95E+01	pCi/L	U
2142	685843002	9/16/2024	Ruthenium-106	-4.72E+00	1.09E+01	3.39E+01	pCi/L	U
2142	699434001	12/12/2024	Ruthenium-106	3.81E+00	3.87E+00	1.33E+01	pCi/L	U
2142	650995001	1/8/2024	Selenium-75	-9.28E-01	1.45E+00	4.61E+00	pCi/L	U
2142	654188003	2/5/2024	Selenium-75	9.44E-02	1.38E+00	4.56E+00	pCi/L	U
2142	657417003	3/6/2024	Selenium-75	2.24E+00	1.46E+00	5.32E+00	pCi/L	U
2142	660794001	4/3/2024	Selenium-75	3.44E+00	1.70E+00	6.41E+00	pCi/L	U
2142	665205003	5/1/2024	Selenium-75	-3.53E+00	1.47E+00	3.73E+00	pCi/L	U
2142	669063001	5/29/2024	Selenium-75	4.51E+00	1.50E+00	5.55E+00	pCi/L	U
2142	672774001	6/24/2024	Selenium-75	-3.44E+00	1.89E+00	5.20E+00	pCi/L	U
2142	676803003	7/24/2024	Selenium-75	4.29E-01	1.38E+00	4.41E+00	pCi/L	U
2142	681489002	8/20/2024	Selenium-75	1.30E+00	1.89E+00	6.53E+00	pCi/L	U
2142	685843002	9/16/2024	Selenium-75	2.15E+00	1.47E+00	5.41E+00	pCi/L	U
2142	699434001	12/12/2024	Selenium-75	-4.88E-01	8.23E-01	2.02E+00	pCi/L	U
2142	650995001	1/8/2024	Silver-108m	1.15E+00	1.09E+00	3.33E+00	pCi/L	U
2142	654188003	2/5/2024	Silver-108m	3.12E-01	8.45E-01	2.80E+00	pCi/L	U
2142	657417003	3/6/2024	Silver-108m	2.52E-01	9.95E-01	3.37E+00	pCi/L	U
2142	660794001	4/3/2024	Silver-108m	2.95E+00	1.48E+00	5.52E+00	pCi/L	U
2142	665205003	5/1/2024	Silver-108m	1.40E-01	9.13E-01	3.08E+00	pCi/L	U
2142	669063001	5/29/2024	Silver-108m	8.66E-02	1.28E+00	4.13E+00	pCi/L	U
2142	672774001	6/24/2024	Silver-108m	-1.04E+00	1.08E+00	3.38E+00	pCi/L	U
2142	676803003	7/24/2024	Silver-108m	-1.10E+00	8.07E-01	2.44E+00	pCi/L	U
2142	681489002	8/20/2024	Silver-108m	4.13E-01	1.44E+00	4.28E+00	pCi/L	U
2142	685843002	9/16/2024	Silver-108m	1.42E-01	8.51E-01	2.88E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	699434001	12/12/2024	Silver-108m	-2.25E-01	3.93E-01	1.29E+00	pCi/L	U
2142	650995001	1/8/2024	Silver-110m	9.41E-02	1.37E+00	4.47E+00	pCi/L	U
2142	654188003	2/5/2024	Silver-110m	-9.80E-01	1.26E+00	3.82E+00	pCi/L	U
2142	657417003	3/6/2024	Silver-110m	-5.50E-01	1.36E+00	4.13E+00	pCi/L	U
2142	660794001	4/3/2024	Silver-110m	-4.05E-02	1.78E+00	5.89E+00	pCi/L	U
2142	665205003	5/1/2024	Silver-110m	7.46E-02	1.20E+00	3.86E+00	pCi/L	U
2142	669063001	5/29/2024	Silver-110m	3.07E-02	1.49E+00	4.79E+00	pCi/L	U
2142	672774001	6/24/2024	Silver-110m	-2.46E+00	2.11E+00	4.80E+00	pCi/L	U
2142	676803003	7/24/2024	Silver-110m	-5.99E-01	1.17E+00	3.48E+00	pCi/L	U
2142	681489002	8/20/2024	Silver-110m	-1.16E+00	2.34E+00	7.20E+00	pCi/L	U
2142	685843002	9/16/2024	Silver-110m	-1.16E+00	1.46E+00	4.56E+00	pCi/L	U
2142	699434001	12/12/2024	Silver-110m	1.09E-03	6.21E-01	1.99E+00	pCi/L	U
2142	650995001	1/8/2024	Tellurium-132	6.36E+00	9.13E+00	3.09E+01	pCi/L	U
2142	654188003	2/5/2024	Tellurium-132	-2.78E+00	7.95E+00	2.59E+01	pCi/L	U
2142	657417003	3/6/2024	Tellurium-132	2.41E+00	4.88E+00	1.56E+01	pCi/L	U
2142	660794001	4/3/2024	Tellurium-132	-1.45E+01	1.55E+01	5.02E+01	pCi/L	U
2142	665205003	5/1/2024	Tellurium-132	4.67E-01	5.96E+00	1.86E+01	pCi/L	U
2142	669063001	5/29/2024	Tellurium-132	-1.04E+01	5.34E+00	1.51E+01	pCi/L	U
2142	672774001	6/24/2024	Tellurium-132	7.41E+00	1.67E+01	5.48E+01	pCi/L	U
2142	676803003	7/24/2024	Tellurium-132	-2.94E+00	3.67E+00	1.11E+01	pCi/L	U
2142	681489002	8/20/2024	Tellurium-132	6.87E-01	6.29E+00	2.13E+01	pCi/L	U
2142	685843002	9/16/2024	Tellurium-132	-3.36E+00	1.22E+01	3.76E+01	pCi/L	U
2142	699434001	12/12/2024	Tellurium-132	-1.65E-01	5.33E+00	1.67E+01	pCi/L	U
2142	650995001	1/8/2024	Thallium-208	-2.01E+00	1.48E+00	4.40E+00	pCi/L	U
2142	654188003	2/5/2024	Thallium-208	1.60E+00	1.20E+00	4.22E+00	pCi/L	U
2142	657417003	3/6/2024	Thallium-208	9.37E-01	1.26E+00	4.08E+00	pCi/L	U
2142	660794001	4/3/2024	Thallium-208	3.36E+00	2.05E+00	7.23E+00	pCi/L	U
2142	665205003	5/1/2024	Thallium-208	4.19E-01	1.99E+00	3.74E+00	pCi/L	U
2142	669063001	5/29/2024	Thallium-208	2.15E+00	1.39E+00	4.85E+00	pCi/L	U
2142	672774001	6/24/2024	Thallium-208	8.79E-03	1.76E+00	5.78E+00	pCi/L	U
2142	676803003	7/24/2024	Thallium-208	-2.71E+00	1.10E+00	3.13E+00	pCi/L	U
2142	681489002	8/20/2024	Thallium-208	-1.41E+00	2.19E+00	6.82E+00	pCi/L	U
2142	685843002	9/16/2024	Thallium-208	-9.70E-01	1.40E+00	4.67E+00	pCi/L	U
2142	699434001	12/12/2024	Thallium-208	1.49E+00	1.20E+00	1.43E+00	pCi/L	UI
2142	650995001	1/8/2024	Thorium-228	-2.00E+00	2.60E+00	8.10E+00	pCi/L	U
2142	654188003	2/5/2024	Thorium-228	3.87E-01	3.26E+00	6.60E+00	pCi/L	U
2142	657417003	3/6/2024	Thorium-228	-5.48E-01	2.50E+00	7.75E+00	pCi/L	U
2142	660794001	4/3/2024	Thorium-228	9.44E-01	3.11E+00	1.03E+01	pCi/L	U
2142	665205003	5/1/2024	Thorium-228	2.22E+00	3.29E+00	7.74E+00	pCi/L	U
2142	669063001	5/29/2024	Thorium-228	-7.00E-01	2.61E+00	7.88E+00	pCi/L	U
2142	672774001	6/24/2024	Thorium-228	3.86E+00	3.33E+00	9.19E+00	pCi/L	U
2142	676803003	7/24/2024	Thorium-228	1.89E+00	3.78E+00	8.00E+00	pCi/L	U
2142	681489002	8/20/2024	Thorium-228	2.75E+00	4.84E+00	9.10E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	685843002	9/16/2024	Thorium-228	4.10E+00	4.62E+00	5.97E+00	pCi/L	U
2142	699434001	12/12/2024	Thorium-228	1.75E+00	2.10E+00	2.74E+00	pCi/L	U
2142	650995001	1/8/2024	Thorium-230	-5.76E+01	6.45E+02	2.01E+03	pCi/L	U
2142	654188003	2/5/2024	Thorium-230	1.20E+03	7.07E+02	1.04E+03	pCi/L	UI
2142	657417003	3/6/2024	Thorium-230	-3.30E+02	4.47E+02	1.42E+03	pCi/L	U
2142	660794001	4/3/2024	Thorium-230	5.74E+01	2.48E+02	8.16E+02	pCi/L	U
2142	665205003	5/1/2024	Thorium-230	-6.12E+02	3.17E+02	9.27E+02	pCi/L	U
2142	669063001	5/29/2024	Thorium-230	1.70E+03	8.80E+02	1.34E+03	pCi/L	UI
2142	672774001	6/24/2024	Thorium-230	-1.75E+03	6.64E+02	1.95E+03	pCi/L	U
2142	676803003	7/24/2024	Thorium-230	-5.53E+02	4.51E+02	1.33E+03	pCi/L	U
2142	681489002	8/20/2024	Thorium-230	-4.12E+02	2.76E+02	8.43E+02	pCi/L	U
2142	685843002	9/16/2024	Thorium-230	-4.64E+02	3.99E+02	1.26E+03	pCi/L	U
2142	699434001	12/12/2024	Thorium-230	6.55E+02	1.97E+02	4.11E+02	pCi/L	UI
2142	650995001	1/8/2024	Thorium-232	3.71E+02	2.18E+03	4.14E+03	pCi/L	U
2142	654188003	2/5/2024	Thorium-232	9.29E+02	8.26E+02	1.71E+03	pCi/L	U
2142	657417003	3/6/2024	Thorium-232	-1.83E+02	9.84E+02	3.07E+03	pCi/L	U
2142	660794001	4/3/2024	Thorium-232	-5.90E+02	4.85E+02	1.59E+03	pCi/L	U
2142	665205003	5/1/2024	Thorium-232	-1.01E+03	5.29E+02	1.59E+03	pCi/L	U
2142	669063001	5/29/2024	Thorium-232	2.20E+01	8.92E+02	2.88E+03	pCi/L	U
2142	672774001	6/24/2024	Thorium-232	-1.31E+03	1.56E+03	4.50E+03	pCi/L	U
2142	676803003	7/24/2024	Thorium-232	4.59E+01	9.66E+02	3.10E+03	pCi/L	U
2142	681489002	8/20/2024	Thorium-232	-4.91E+02	4.94E+02	1.69E+03	pCi/L	U
2142	685843002	9/16/2024	Thorium-232	-1.34E+03	7.78E+02	2.31E+03	pCi/L	U
2142	699434001	12/12/2024	Thorium-232	6.65E+02	3.83E+02	6.61E+02	pCi/L	UI
2142	650995001	1/8/2024	Thorium-234	2.61E+01	1.53E+02	2.81E+02	pCi/L	U
2142	654188003	2/5/2024	Thorium-234	6.53E+01	5.80E+01	1.70E+02	pCi/L	U
2142	657417003	3/6/2024	Thorium-234	-4.61E+01	7.14E+01	2.19E+02	pCi/L	U
2142	660794001	4/3/2024	Thorium-234	-1.30E+01	3.36E+01	1.13E+02	pCi/L	U
2142	665205003	5/1/2024	Thorium-234	-4.81E+01	3.74E+01	1.15E+02	pCi/L	U
2142	669063001	5/29/2024	Thorium-234	9.64E+00	6.30E+01	2.05E+02	pCi/L	U
2142	672774001	6/24/2024	Thorium-234	-2.93E+01	1.13E+02	3.36E+02	pCi/L	U
2142	676803003	7/24/2024	Thorium-234	-4.14E+01	7.28E+01	2.28E+02	pCi/L	U
2142	681489002	8/20/2024	Thorium-234	-2.98E+01	3.42E+01	1.18E+02	pCi/L	U
2142	685843002	9/16/2024	Thorium-234	-1.06E+02	5.44E+01	1.59E+02	pCi/L	U
2142	699434001	12/12/2024	Thorium-234	4.67E+01	2.69E+01	4.69E+01	pCi/L	U
2142	664024003	3/6/2024	Tritium	8.17E+01	2.19E+02	7.07E+02	pCi/L	U
2142	695234002	9/16/2024	Tritium	3.87E+02	3.05E+02	9.68E+02	pCi/L	U
2142	705723001	12/12/2024	Tritium	-1.01E+02	2.24E+02	7.57E+02	pCi/L	U
2142	650995001	1/8/2024	Uranium-234	1.14E+04	9.10E+03	1.82E+04	pCi/L	U
2142	654188003	2/5/2024	Uranium-234	2.05E+02	1.78E+03	5.60E+03	pCi/L	U
2142	657417003	3/6/2024	Uranium-234	4.74E+03	3.03E+03	1.07E+04	pCi/L	U
2142	660794001	4/3/2024	Uranium-234	-5.68E+02	9.69E+02	2.97E+03	pCi/L	U
2142	665205003	5/1/2024	Uranium-234	1.12E+03	1.10E+03	3.78E+03	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2142	669063001	5/29/2024	Uranium-234	5.34E+02	2.79E+03	9.49E+03	pCi/L	U
2142	672774001	6/24/2024	Uranium-234	5.40E+03	7.19E+03	2.56E+04	pCi/L	U
2142	676803003	7/24/2024	Uranium-234	6.66E+03	3.31E+03	1.22E+04	pCi/L	U
2142	681489002	8/20/2024	Uranium-234	7.39E+02	8.61E+02	2.81E+03	pCi/L	U
2142	685843002	9/16/2024	Uranium-234	3.34E+03	2.46E+03	8.86E+03	pCi/L	U
2142	699434001	12/12/2024	Uranium-234	7.47E+02	4.90E+02	1.69E+03	pCi/L	U
2142	650995001	1/8/2024	Zinc-65	1.13E+00	2.38E+00	8.32E+00	pCi/L	U
2142	654188003	2/5/2024	Zinc-65	-1.52E+00	2.09E+00	6.26E+00	pCi/L	U
2142	657417003	3/6/2024	Zinc-65	1.96E+00	2.13E+00	7.18E+00	pCi/L	U
2142	660794001	4/3/2024	Zinc-65	-1.61E+00	3.88E+00	1.19E+01	pCi/L	U
2142	665205003	5/1/2024	Zinc-65	-2.64E-01	2.12E+00	7.07E+00	pCi/L	U
2142	669063001	5/29/2024	Zinc-65	-2.93E-01	2.16E+00	7.20E+00	pCi/L	U
2142	672774001	6/24/2024	Zinc-65	3.54E+00	2.37E+00	9.42E+00	pCi/L	U
2142	676803003	7/24/2024	Zinc-65	-1.55E+00	2.15E+00	6.71E+00	pCi/L	U
2142	681489002	8/20/2024	Zinc-65	-2.52E+00	3.82E+00	9.04E+00	pCi/L	U
2142	685843002	9/16/2024	Zinc-65	2.55E+00	2.56E+00	8.70E+00	pCi/L	U
2142	699434001	12/12/2024	Zinc-65	4.12E-01	9.85E-01	3.42E+00	pCi/L	U
2142	650995001	1/8/2024	Zirconium-95	3.89E-01	2.08E+00	6.93E+00	pCi/L	U
2142	654188003	2/5/2024	Zirconium-95	-2.13E+00	1.70E+00	4.79E+00	pCi/L	U
2142	657417003	3/6/2024	Zirconium-95	7.51E-01	1.78E+00	5.98E+00	pCi/L	U
2142	660794001	4/3/2024	Zirconium-95	-1.03E+00	3.29E+00	1.07E+01	pCi/L	U
2142	665205003	5/1/2024	Zirconium-95	-1.23E+00	1.63E+00	4.74E+00	pCi/L	U
2142	669063001	5/29/2024	Zirconium-95	-5.95E-01	2.18E+00	6.92E+00	pCi/L	U
2142	672774001	6/24/2024	Zirconium-95	3.86E+00	2.84E+00	1.03E+01	pCi/L	U
2142	676803003	7/24/2024	Zirconium-95	1.70E+00	1.49E+00	5.44E+00	pCi/L	U
2142	681489002	8/20/2024	Zirconium-95	-3.20E+00	4.07E+00	1.06E+01	pCi/L	U
2142	685843002	9/16/2024	Zirconium-95	3.65E+00	1.54E+00	6.35E+00	pCi/L	U
2142	699434001	12/12/2024	Zirconium-95	8.39E-01	9.04E-01	3.08E+00	pCi/L	U
3298	650998001	1/8/2024	Actinium-228	-4.26E+00	4.71E+00	1.37E+01	pCi/L	U
3298	654193001	2/5/2024	Actinium-228	-4.47E+00	5.59E+00	1.65E+01	pCi/L	U
3298	663093001	4/1/2024	Actinium-228	-5.86E+00	4.44E+00	1.23E+01	pCi/L	U
3298	665208001	4/30/2024	Actinium-228	-9.97E+00	6.60E+00	1.73E+01	pCi/L	U
3298	669066001	5/28/2024	Actinium-228	8.68E+00	6.25E+00	2.19E+01	pCi/L	U
3298	672777001	6/24/2024	Actinium-228	-3.29E+00	5.32E+00	1.75E+01	pCi/L	U
3298	676806001	7/22/2024	Actinium-228	1.01E+01	4.96E+00	1.42E+01	pCi/L	U
3298	681493001	8/19/2024	Actinium-228	-2.57E+00	6.84E+00	2.17E+01	pCi/L	U
3298	685846001	9/16/2024	Actinium-228	1.83E+00	6.11E+00	2.03E+01	pCi/L	U
3298	690097001	10/14/2024	Actinium-228	1.92E+01	4.72E+00	1.11E+01	pCi/L	
3298	694915001	11/12/2024	Actinium-228	9.26E+00	9.03E+00	2.10E+01	pCi/L	U
3298	699437003	12/11/2024	Actinium-228	-1.39E+00	6.64E+00	1.75E+01	pCi/L	U
3298	650998001	1/8/2024	Americium-241	-2.39E-01	5.57E+00	1.73E+01	pCi/L	U
3298	654193001	2/5/2024	Americium-241	8.31E+00	6.82E+00	2.26E+01	pCi/L	U
3298	663093001	4/1/2024	Americium-241	4.53E+00	5.31E+00	1.87E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	665208001	4/30/2024	Americium-241	3.12E+00	1.36E+01	4.16E+01	pCi/L	U
3298	669066001	5/28/2024	Americium-241	-1.80E+00	6.92E+00	2.17E+01	pCi/L	U
3298	672777001	6/24/2024	Americium-241	2.63E-01	3.54E+00	1.10E+01	pCi/L	U
3298	676806001	7/22/2024	Americium-241	1.12E+01	6.25E+00	2.10E+01	pCi/L	U
3298	681493001	8/19/2024	Americium-241	6.88E+00	9.10E+00	3.26E+01	pCi/L	U
3298	685846001	9/16/2024	Americium-241	-4.14E+00	1.14E+01	3.82E+01	pCi/L	U
3298	690097001	10/14/2024	Americium-241	-2.18E+00	1.21E+00	3.81E+00	pCi/L	U
3298	694915001	11/12/2024	Americium-241	-5.36E-01	7.14E+00	2.46E+01	pCi/L	U
3298	699437003	12/11/2024	Americium-241	-1.96E+01	1.47E+01	4.69E+01	pCi/L	U
3298	650998001	1/8/2024	Antimony-124	-4.75E+00	2.30E+00	5.36E+00	pCi/L	U
3298	654193001	2/5/2024	Antimony-124	1.24E+00	2.44E+00	8.63E+00	pCi/L	U
3298	663093001	4/1/2024	Antimony-124	-1.28E+00	2.48E+00	7.84E+00	pCi/L	U
3298	665208001	4/30/2024	Antimony-124	-3.14E-01	3.87E+00	1.25E+01	pCi/L	U
3298	669066001	5/28/2024	Antimony-124	-4.57E+00	2.83E+00	6.47E+00	pCi/L	U
3298	672777001	6/24/2024	Antimony-124	3.43E+00	2.48E+00	9.73E+00	pCi/L	U
3298	676806001	7/22/2024	Antimony-124	1.74E+00	3.02E+00	1.05E+01	pCi/L	U
3298	681493001	8/19/2024	Antimony-124	2.04E+00	2.63E+00	9.89E+00	pCi/L	U
3298	685846001	9/16/2024	Antimony-124	9.05E-01	2.86E+00	9.87E+00	pCi/L	U
3298	690097001	10/14/2024	Antimony-124	-2.46E+00	2.97E+00	7.61E+00	pCi/L	U
3298	694915001	11/12/2024	Antimony-124	-2.55E-01	2.42E+00	7.88E+00	pCi/L	U
3298	699437003	12/11/2024	Antimony-124	-7.34E+00	3.30E+00	6.71E+00	pCi/L	U
3298	650998001	1/8/2024	Antimony-125	-6.67E-01	2.56E+00	8.51E+00	pCi/L	U
3298	654193001	2/5/2024	Antimony-125	-1.89E+00	3.27E+00	1.07E+01	pCi/L	U
3298	663093001	4/1/2024	Antimony-125	-2.31E+00	2.11E+00	6.57E+00	pCi/L	U
3298	665208001	4/30/2024	Antimony-125	3.37E-01	3.36E+00	1.14E+01	pCi/L	U
3298	669066001	5/28/2024	Antimony-125	-2.16E+00	3.24E+00	1.02E+01	pCi/L	U
3298	672777001	6/24/2024	Antimony-125	2.24E+00	2.42E+00	8.54E+00	pCi/L	U
3298	676806001	7/22/2024	Antimony-125	-1.13E+00	3.63E+00	1.01E+01	pCi/L	U
3298	681493001	8/19/2024	Antimony-125	2.75E+00	3.51E+00	1.19E+01	pCi/L	U
3298	685846001	9/16/2024	Antimony-125	5.95E+00	3.77E+00	1.31E+01	pCi/L	U
3298	690097001	10/14/2024	Antimony-125	-1.74E+00	2.28E+00	7.13E+00	pCi/L	U
3298	694915001	11/12/2024	Antimony-125	-1.56E+00	3.08E+00	9.90E+00	pCi/L	U
3298	699437003	12/11/2024	Antimony-125	5.12E+00	3.85E+00	1.34E+01	pCi/L	U
3298	650998001	1/8/2024	Barium-140	1.03E+01	5.23E+00	1.95E+01	pCi/L	U
3298	654193001	2/5/2024	Barium-140	6.01E+00	5.49E+00	1.97E+01	pCi/L	U
3298	663093001	4/1/2024	Barium-140	9.39E+00	6.31E+00	2.26E+01	pCi/L	U
3298	665208001	4/30/2024	Barium-140	2.17E+01	7.09E+00	2.90E+01	pCi/L	U
3298	669066001	5/28/2024	Barium-140	-1.10E-01	5.31E+00	1.73E+01	pCi/L	U
3298	672777001	6/24/2024	Barium-140	-1.82E+00	6.95E+00	2.21E+01	pCi/L	U
3298	676806001	7/22/2024	Barium-140	-2.17E+00	5.62E+00	1.73E+01	pCi/L	U
3298	681493001	8/19/2024	Barium-140	3.92E+00	7.07E+00	2.47E+01	pCi/L	U
3298	685846001	9/16/2024	Barium-140	-4.43E+00	7.67E+00	2.44E+01	pCi/L	U
3298	690097001	10/14/2024	Barium-140	-1.26E+01	9.00E+00	2.32E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	694915001	11/12/2024	Barium-140	5.45E+00	6.43E+00	2.22E+01	pCi/L	U
3298	699437003	12/11/2024	Barium-140	4.62E+00	6.57E+00	2.32E+01	pCi/L	U
3298	650998001	1/8/2024	Beryllium-7	1.52E+01	8.81E+00	3.21E+01	pCi/L	U
3298	654193001	2/5/2024	Beryllium-7	1.10E+01	1.07E+01	3.81E+01	pCi/L	U
3298	663093001	4/1/2024	Beryllium-7	1.30E+01	7.52E+00	2.73E+01	pCi/L	U
3298	665208001	4/30/2024	Beryllium-7	1.02E+01	9.80E+00	3.56E+01	pCi/L	U
3298	669066001	5/28/2024	Beryllium-7	3.49E+00	7.55E+00	2.62E+01	pCi/L	U
3298	672777001	6/24/2024	Beryllium-7	1.82E+01	9.97E+00	3.65E+01	pCi/L	U
3298	676806001	7/22/2024	Beryllium-7	-1.69E+01	8.67E+00	2.26E+01	pCi/L	U
3298	681493001	8/19/2024	Beryllium-7	3.70E+00	1.09E+01	3.78E+01	pCi/L	U
3298	685846001	9/16/2024	Beryllium-7	-1.05E+01	1.04E+01	3.20E+01	pCi/L	U
3298	690097001	10/14/2024	Beryllium-7	-1.58E-01	8.47E+00	2.71E+01	pCi/L	U
3298	694915001	11/12/2024	Beryllium-7	7.93E-01	1.05E+01	3.46E+01	pCi/L	U
3298	699437003	12/11/2024	Beryllium-7	-1.02E+01	1.25E+01	3.80E+01	pCi/L	U
3298	650998001	1/8/2024	BETA	2.26E+00	9.50E-01	2.59E+00	pCi/L	U
3298	654193001	2/5/2024	BETA	1.74E+00	9.32E-01	2.65E+00	pCi/L	U
3298	657413001	3/4/2024	Beta	1.14E+00			pCi/L	
3298	663093001	4/1/2024	BETA	4.07E-01	6.86E-01	2.12E+00	pCi/L	U
3298	665208001	4/30/2024	BETA	1.56E+00	9.04E-01	2.62E+00	pCi/L	U
3298	669066001	5/28/2024	BETA	2.11E+00	9.40E-01	2.62E+00	pCi/L	U
3298	672777001	6/24/2024	BETA	5.92E-01	8.00E-01	2.45E+00	pCi/L	U
3298	676806001	7/22/2024	BETA	1.43E+00	9.11E-01	2.66E+00	pCi/L	U
3298	681493001	8/19/2024	BETA	2.29E+00	9.14E-01	2.50E+00	pCi/L	U
3298	685846001	9/16/2024	BETA	2.08E+00	9.22E-01	2.55E+00	pCi/L	U
3298	690097001	10/14/2024	BETA	1.62E+00	8.77E-01	2.46E+00	pCi/L	U
3298	694915001	11/12/2024	BETA	4.52E-02	8.04E-01	2.61E+00	pCi/L	U
3298	699437003	12/11/2024	BETA	1.98E+00	8.07E-01	2.06E+00	pCi/L	U
3298	650998001	1/8/2024	Bismuth-214	6.25E+00	3.92E+00	8.38E+00	pCi/L	U
3298	654193001	2/5/2024	Bismuth-214	3.31E+00	3.59E+00	9.54E+00	pCi/L	U
3298	663093001	4/1/2024	Bismuth-214	4.91E-01	2.41E+00	6.86E+00	pCi/L	U
3298	665208001	4/30/2024	Bismuth-214	6.76E+00	4.72E+00	8.25E+00	pCi/L	U
3298	669066001	5/28/2024	Bismuth-214	-2.17E+00	3.15E+00	9.78E+00	pCi/L	U
3298	672777001	6/24/2024	Bismuth-214	5.74E+00	3.19E+00	9.32E+00	pCi/L	U
3298	676806001	7/22/2024	Bismuth-214	-5.65E+00	2.82E+00	7.31E+00	pCi/L	U
3298	681493001	8/19/2024	Bismuth-214	5.89E+00	3.47E+00	1.20E+01	pCi/L	U
3298	685846001	9/16/2024	Bismuth-214	2.58E+00	3.33E+00	1.13E+01	pCi/L	U
3298	690097001	10/14/2024	Bismuth-214	1.98E+00	4.40E+00	5.08E+00	pCi/L	U
3298	694915001	11/12/2024	Bismuth-214	-5.70E+00	3.63E+00	1.13E+01	pCi/L	U
3298	699437003	12/11/2024	Bismuth-214	1.01E+01	5.37E+00	1.19E+01	pCi/L	U
3298	650998001	1/8/2024	Cerium-141	-2.95E+00	2.19E+00	5.67E+00	pCi/L	U
3298	654193001	2/5/2024	Cerium-141	-2.75E+00	1.86E+00	5.56E+00	pCi/L	U
3298	663093001	4/1/2024	Cerium-141	-2.07E-01	1.87E+00	5.31E+00	pCi/L	U
3298	665208001	4/30/2024	Cerium-141	9.42E-01	2.50E+00	7.68E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	669066001	5/28/2024	Cerium-141	7.53E+00	3.48E+00	5.22E+00	pCi/L	UI
3298	672777001	6/24/2024	Cerium-141	4.55E+00	3.26E+00	5.38E+00	pCi/L	U
3298	676806001	7/22/2024	Cerium-141	2.58E+00	1.95E+00	6.87E+00	pCi/L	U
3298	681493001	8/19/2024	Cerium-141	-4.49E-01	2.33E+00	6.61E+00	pCi/L	U
3298	685846001	9/16/2024	Cerium-141	-4.34E+00	2.44E+00	7.27E+00	pCi/L	U
3298	690097001	10/14/2024	Cerium-141	-3.30E+00	2.06E+00	4.46E+00	pCi/L	U
3298	694915001	11/12/2024	Cerium-141	-3.44E+00	2.60E+00	7.29E+00	pCi/L	U
3298	699437003	12/11/2024	Cerium-141	6.92E+00	2.58E+00	8.85E+00	pCi/L	U
3298	650998001	1/8/2024	Cerium-144	-7.94E+00	6.16E+00	1.90E+01	pCi/L	U
3298	654193001	2/5/2024	Cerium-144	6.36E+00	7.93E+00	2.67E+01	pCi/L	U
3298	663093001	4/1/2024	Cerium-144	-6.69E+00	5.64E+00	1.77E+01	pCi/L	U
3298	665208001	4/30/2024	Cerium-144	1.77E+01	8.59E+00	3.07E+01	pCi/L	U
3298	669066001	5/28/2024	Cerium-144	3.96E+00	7.60E+00	2.55E+01	pCi/L	U
3298	672777001	6/24/2024	Cerium-144	2.59E+00	6.73E+00	2.20E+01	pCi/L	U
3298	676806001	7/22/2024	Cerium-144	6.27E+00	7.45E+00	2.58E+01	pCi/L	U
3298	681493001	8/19/2024	Cerium-144	1.29E+00	7.77E+00	2.52E+01	pCi/L	U
3298	685846001	9/16/2024	Cerium-144	3.64E+01	1.46E+01	2.62E+01	pCi/L	UI
3298	690097001	10/14/2024	Cerium-144	-3.17E+00	4.57E+00	1.41E+01	pCi/L	U
3298	694915001	11/12/2024	Cerium-144	7.99E+00	8.12E+00	2.78E+01	pCi/L	U
3298	699437003	12/11/2024	Cerium-144	8.47E+00	9.86E+00	3.14E+01	pCi/L	U
3298	650998001	1/8/2024	Cesium-134	1.05E+00	1.06E+00	3.68E+00	pCi/L	U
3298	654193001	2/5/2024	Cesium-134	-6.80E-02	1.25E+00	4.04E+00	pCi/L	U
3298	663093001	4/1/2024	Cesium-134	-1.30E+00	1.03E+00	3.21E+00	pCi/L	U
3298	665208001	4/30/2024	Cesium-134	-7.25E-01	1.55E+00	4.15E+00	pCi/L	U
3298	669066001	5/28/2024	Cesium-134	-1.11E+00	1.37E+00	4.29E+00	pCi/L	U
3298	672777001	6/24/2024	Cesium-134	-4.64E-01	8.93E-01	2.86E+00	pCi/L	U
3298	676806001	7/22/2024	Cesium-134	-1.63E+00	1.13E+00	3.30E+00	pCi/L	U
3298	681493001	8/19/2024	Cesium-134	8.10E-01	1.79E+00	5.33E+00	pCi/L	U
3298	685846001	9/16/2024	Cesium-134	2.49E-01	1.28E+00	4.23E+00	pCi/L	U
3298	690097001	10/14/2024	Cesium-134	3.00E-01	9.79E-01	3.28E+00	pCi/L	U
3298	694915001	11/12/2024	Cesium-134	4.61E-01	1.08E+00	3.81E+00	pCi/L	U
3298	699437003	12/11/2024	Cesium-134	4.74E-01	1.47E+00	5.01E+00	pCi/L	U
3298	650998001	1/8/2024	Cesium-137	1.71E-01	9.46E-01	3.14E+00	pCi/L	U
3298	654193001	2/5/2024	Cesium-137	1.02E+00	1.36E+00	3.56E+00	pCi/L	U
3298	657413001	3/4/2024	Cesium-137	1.55E+00			pCi/L	
3298	663093001	4/1/2024	Cesium-137	1.41E+00	8.93E-01	3.18E+00	pCi/L	U
3298	665208001	4/30/2024	Cesium-137	7.91E-01	1.26E+00	4.37E+00	pCi/L	U
3298	669066001	5/28/2024	Cesium-137	-5.14E-02	9.58E-01	3.05E+00	pCi/L	U
3298	672777001	6/24/2024	Cesium-137	1.27E+00	1.23E+00	4.25E+00	pCi/L	U
3298	676806001	7/22/2024	Cesium-137	1.37E+00	1.83E+00	3.56E+00	pCi/L	U
3298	681493001	8/19/2024	Cesium-137	-4.66E-01	1.55E+00	4.92E+00	pCi/L	U
3298	685846001	9/16/2024	Cesium-137	-1.08E-01	1.64E+00	4.77E+00	pCi/L	U
3298	690097001	10/14/2024	Cesium-137	4.64E-01	1.64E+00	2.76E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	694915001	11/12/2024	Cesium-137	2.13E+00	1.03E+00	3.96E+00	pCi/L	U
3298	699437003	12/11/2024	Cesium-137	9.57E-01	1.26E+00	4.45E+00	pCi/L	U
3298	650998001	1/8/2024	Chromium-51	-5.83E+00	9.47E+00	3.17E+01	pCi/L	U
3298	654193001	2/5/2024	Chromium-51	-8.99E+00	1.10E+01	3.64E+01	pCi/L	U
3298	663093001	4/1/2024	Chromium-51	6.43E+00	9.15E+00	3.21E+01	pCi/L	U
3298	665208001	4/30/2024	Chromium-51	2.89E+00	1.26E+01	4.38E+01	pCi/L	U
3298	669066001	5/28/2024	Chromium-51	4.30E+00	1.21E+01	4.20E+01	pCi/L	U
3298	672777001	6/24/2024	Chromium-51	-1.55E+01	8.75E+00	2.59E+01	pCi/L	U
3298	676806001	7/22/2024	Chromium-51	-9.63E-01	9.63E+00	3.12E+01	pCi/L	U
3298	681493001	8/19/2024	Chromium-51	-2.58E+00	1.29E+01	4.19E+01	pCi/L	U
3298	685846001	9/16/2024	Chromium-51	-1.15E+00	1.19E+01	3.66E+01	pCi/L	U
3298	690097001	10/14/2024	Chromium-51	-1.03E+01	8.59E+00	2.72E+01	pCi/L	U
3298	694915001	11/12/2024	Chromium-51	-6.36E+00	1.09E+01	3.60E+01	pCi/L	U
3298	699437003	12/11/2024	Chromium-51	-2.15E+00	1.23E+01	3.96E+01	pCi/L	U
3298	650998001	1/8/2024	Cobalt-57	-2.53E-01	7.99E-01	2.58E+00	pCi/L	U
3298	654193001	2/5/2024	Cobalt-57	8.90E-01	1.01E+00	3.41E+00	pCi/L	U
3298	663093001	4/1/2024	Cobalt-57	-2.80E-01	6.49E-01	2.10E+00	pCi/L	U
3298	665208001	4/30/2024	Cobalt-57	5.90E-01	1.26E+00	4.22E+00	pCi/L	U
3298	669066001	5/28/2024	Cobalt-57	-7.31E-01	9.95E-01	3.16E+00	pCi/L	U
3298	672777001	6/24/2024	Cobalt-57	-1.33E+00	8.20E-01	2.43E+00	pCi/L	U
3298	676806001	7/22/2024	Cobalt-57	3.73E-01	9.89E-01	3.37E+00	pCi/L	U
3298	681493001	8/19/2024	Cobalt-57	-6.94E-02	1.04E+00	3.36E+00	pCi/L	U
3298	685846001	9/16/2024	Cobalt-57	1.05E+00	1.16E+00	4.01E+00	pCi/L	U
3298	690097001	10/14/2024	Cobalt-57	-6.81E-02	5.63E-01	1.77E+00	pCi/L	U
3298	694915001	11/12/2024	Cobalt-57	-1.89E+00	1.10E+00	3.40E+00	pCi/L	U
3298	699437003	12/11/2024	Cobalt-57	-5.65E-01	1.25E+00	4.06E+00	pCi/L	U
3298	650998001	1/8/2024	Cobalt-58	1.01E+00	9.99E-01	3.48E+00	pCi/L	U
3298	654193001	2/5/2024	Cobalt-58	1.56E+00	1.12E+00	3.85E+00	pCi/L	U
3298	663093001	4/1/2024	Cobalt-58	2.06E+00	8.71E-01	3.20E+00	pCi/L	U
3298	665208001	4/30/2024	Cobalt-58	1.44E+00	1.37E+00	4.54E+00	pCi/L	U
3298	669066001	5/28/2024	Cobalt-58	-3.68E-01	1.44E+00	4.78E+00	pCi/L	U
3298	672777001	6/24/2024	Cobalt-58	-1.18E+00	1.13E+00	3.49E+00	pCi/L	U
3298	676806001	7/22/2024	Cobalt-58	1.21E+00	9.84E-01	3.68E+00	pCi/L	U
3298	681493001	8/19/2024	Cobalt-58	-8.67E-02	1.25E+00	4.18E+00	pCi/L	U
3298	685846001	9/16/2024	Cobalt-58	3.03E+00	1.80E+00	2.87E+00	pCi/L	UI
3298	690097001	10/14/2024	Cobalt-58	-1.14E+00	1.06E+00	2.82E+00	pCi/L	U
3298	694915001	11/12/2024	Cobalt-58	-1.54E-01	1.28E+00	4.27E+00	pCi/L	U
3298	699437003	12/11/2024	Cobalt-58	1.94E+00	1.27E+00	4.39E+00	pCi/L	U
3298	650998001	1/8/2024	Cobalt-60	-1.26E+00	8.51E-01	2.35E+00	pCi/L	U
3298	654193001	2/5/2024	Cobalt-60	-4.05E-01	9.84E-01	3.10E+00	pCi/L	U
3298	663093001	4/1/2024	Cobalt-60	3.88E-02	1.05E+00	2.97E+00	pCi/L	U
3298	665208001	4/30/2024	Cobalt-60	-3.06E+00	1.84E+00	5.47E+00	pCi/L	U
3298	669066001	5/28/2024	Cobalt-60	2.44E-01	1.13E+00	3.77E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	672777001	6/24/2024	Cobalt-60	1.95E+00	1.09E+00	4.24E+00	pCi/L	U
3298	676806001	7/22/2024	Cobalt-60	1.21E+00	1.29E+00	4.65E+00	pCi/L	U
3298	681493001	8/19/2024	Cobalt-60	6.21E-01	1.15E+00	4.17E+00	pCi/L	U
3298	685846001	9/16/2024	Cobalt-60	6.55E-02	1.20E+00	4.03E+00	pCi/L	U
3298	690097001	10/14/2024	Cobalt-60	7.16E-01	8.90E-01	3.13E+00	pCi/L	U
3298	694915001	11/12/2024	Cobalt-60	-1.88E+00	1.63E+00	4.60E+00	pCi/L	U
3298	699437003	12/11/2024	Cobalt-60	1.96E-01	1.57E+00	5.21E+00	pCi/L	U
3298	650998001	1/8/2024	Iodine-131	-1.43E+00	2.22E+00	7.32E+00	pCi/L	U
3298	650998001	1/8/2024	Iodine-131	-3.44E-02	2.65E-01	8.77E-01	pCi/L	U
3298	654193001	2/5/2024	Iodine-131	1.85E+00	2.14E+00	7.60E+00	pCi/L	U
3298	654193001	2/5/2024	Iodine-131	2.20E-01	2.36E-01	7.17E-01	pCi/L	U
3298	657413001	3/4/2024	Iodine-131	5.10E-01			pCi/L	
3298	663093001	4/1/2024	Iodine-131	-4.90E+00	3.29E+00	8.96E+00	pCi/L	U
3298	663093001	4/1/2024	Iodine-131	2.04E-01	2.67E-01	8.60E-01	pCi/L	U
3298	665208001	4/30/2024	Iodine-131	-5.79E-02	2.47E-01	8.19E-01	pCi/L	U
3298	669066001	5/28/2024	Iodine-131	9.73E-01	1.97E+00	6.89E+00	pCi/L	U
3298	669066001	5/28/2024	Iodine-131	4.31E-01	2.04E-01	6.29E-01	pCi/L	U
3298	672777001	6/24/2024	Iodine-131	6.31E-01	2.82E-01	8.40E-01	pCi/L	U
3298	676806001	7/22/2024	Iodine-131	-8.01E-02	2.11E-01	7.16E-01	pCi/L	U
3298	676806001	7/22/2024	Iodine-131	5.31E-01	2.02E+00	6.67E+00	pCi/L	U
3298	681493001	8/19/2024	Iodine-131	-5.94E+00	3.19E+00	8.98E+00	pCi/L	U
3298	681493001	8/19/2024	Iodine-131	-4.37E-01	6.08E-01	2.02E+00	pCi/L	U
3298	685846001	9/16/2024	Iodine-131	-9.07E-01	2.84E+00	8.92E+00	pCi/L	U
3298	685846001	9/16/2024	Iodine-131	-2.83E-01	2.05E-01	7.37E-01	pCi/L	U
3298	690097001	10/14/2024	Iodine-131	-4.03E-01	2.53E-01	8.57E-01	pCi/L	U
3298	690097001	10/14/2024	Iodine-131	-7.84E-01	2.94E+00	9.49E+00	pCi/L	U
3298	694915001	11/12/2024	Iodine-131	3.43E-01	2.72E-01	8.22E-01	pCi/L	U
3298	699437003	12/11/2024	Iodine-131	-3.11E-01	6.11E-01	2.03E+00	pCi/L	U
3298	650998001	1/8/2024	Iron-59	-7.97E-01	2.10E+00	6.93E+00	pCi/L	U
3298	654193001	2/5/2024	Iron-59	-8.15E-01	2.01E+00	6.52E+00	pCi/L	U
3298	663093001	4/1/2024	Iron-59	-1.04E+00	2.00E+00	6.26E+00	pCi/L	U
3298	665208001	4/30/2024	Iron-59	-8.88E-01	2.41E+00	7.78E+00	pCi/L	U
3298	669066001	5/28/2024	Iron-59	3.72E+00	3.68E+00	1.12E+01	pCi/L	U
3298	672777001	6/24/2024	Iron-59	4.03E+00	1.63E+00	7.15E+00	pCi/L	U
3298	676806001	7/22/2024	Iron-59	1.27E+00	2.10E+00	6.73E+00	pCi/L	U
3298	681493001	8/19/2024	Iron-59	7.95E-01	2.48E+00	8.48E+00	pCi/L	U
3298	685846001	9/16/2024	Iron-59	1.59E+00	3.21E+00	1.14E+01	pCi/L	U
3298	690097001	10/14/2024	Iron-59	-3.96E-01	2.01E+00	6.38E+00	pCi/L	U
3298	694915001	11/12/2024	Iron-59	1.09E+00	2.42E+00	8.30E+00	pCi/L	U
3298	699437003	12/11/2024	Iron-59	-1.10E+00	2.47E+00	7.76E+00	pCi/L	U
3298	650998001	1/8/2024	Lanthanum-140	-3.78E+00	1.62E+00	3.36E+00	pCi/L	U
3298	654193001	2/5/2024	Lanthanum-140	5.03E-01	1.68E+00	5.78E+00	pCi/L	U
3298	663093001	4/1/2024	Lanthanum-140	2.40E+00	2.27E+00	8.39E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1- σ	MDA	Units	Qualifier
3298	665208001	4/30/2024	Lanthanum-140	-3.35E+00	2.41E+00	5.86E+00	pCi/L	U
3298	669066001	5/28/2024	Lanthanum-140	8.66E-01	1.96E+00	7.01E+00	pCi/L	U
3298	672777001	6/24/2024	Lanthanum-140	-4.59E-01	2.51E+00	8.30E+00	pCi/L	U
3298	676806001	7/22/2024	Lanthanum-140	9.44E-01	1.52E+00	5.45E+00	pCi/L	U
3298	681493001	8/19/2024	Lanthanum-140	3.25E+00	3.46E+00	1.25E+01	pCi/L	U
3298	685846001	9/16/2024	Lanthanum-140	-3.96E+00	2.78E+00	7.05E+00	pCi/L	U
3298	690097001	10/14/2024	Lanthanum-140	-2.24E+00	2.37E+00	7.18E+00	pCi/L	U
3298	694915001	11/12/2024	Lanthanum-140	-3.68E+00	2.50E+00	6.95E+00	pCi/L	U
3298	699437003	12/11/2024	Lanthanum-140	-1.98E+00	2.15E+00	6.00E+00	pCi/L	U
3298	650998001	1/8/2024	Lead-210	-1.21E+01	1.40E+02	4.71E+02	pCi/L	U
3298	654193001	2/5/2024	Lead-210	-1.36E+02	1.71E+02	4.84E+02	pCi/L	U
3298	663093001	4/1/2024	Lead-210	1.77E+02	1.57E+02	5.63E+02	pCi/L	U
3298	665208001	4/30/2024	Lead-210	6.75E+02	5.38E+02	1.95E+03	pCi/L	U
3298	669066001	5/28/2024	Lead-210	-3.01E+02	2.42E+02	7.39E+02	pCi/L	U
3298	672777001	6/24/2024	Lead-210	-5.92E+01	6.47E+01	1.98E+02	pCi/L	U
3298	676806001	7/22/2024	Lead-210	1.03E+02	1.65E+02	4.43E+02	pCi/L	U
3298	681493001	8/19/2024	Lead-210	5.03E+02	6.47E+02	1.35E+03	pCi/L	U
3298	685846001	9/16/2024	Lead-210	-8.95E+01	6.16E+02	1.89E+03	pCi/L	U
3298	690097001	10/14/2024	Lead-210	2.45E+00	2.13E+01	2.72E+01	pCi/L	U
3298	694915001	11/12/2024	Lead-210	1.19E+02	1.81E+02	6.49E+02	pCi/L	U
3298	699437003	12/11/2024	Lead-210	-1.47E+02	6.27E+02	2.09E+03	pCi/L	U
3298	650998001	1/8/2024	Lead-212	2.30E+00	3.52E+00	5.16E+00	pCi/L	U
3298	654193001	2/5/2024	Lead-212	2.88E+00	2.62E+00	8.02E+00	pCi/L	U
3298	663093001	4/1/2024	Lead-212	1.44E-02	2.51E+00	5.82E+00	pCi/L	U
3298	665208001	4/30/2024	Lead-212	8.71E-01	4.03E+00	1.07E+01	pCi/L	U
3298	669066001	5/28/2024	Lead-212	6.78E+00	4.44E+00	9.18E+00	pCi/L	U
3298	672777001	6/24/2024	Lead-212	-2.79E+00	2.23E+00	7.19E+00	pCi/L	U
3298	676806001	7/22/2024	Lead-212	7.00E+00	4.69E+00	9.35E+00	pCi/L	U
3298	681493001	8/19/2024	Lead-212	1.08E+00	3.80E+00	9.12E+00	pCi/L	U
3298	685846001	9/16/2024	Lead-212	-4.54E+00	2.91E+00	8.48E+00	pCi/L	U
3298	690097001	10/14/2024	Lead-212	2.09E+00	2.34E+00	4.04E+00	pCi/L	U
3298	694915001	11/12/2024	Lead-212	3.70E+00	2.99E+00	8.63E+00	pCi/L	U
3298	699437003	12/11/2024	Lead-212	2.23E+00	5.05E+00	9.00E+00	pCi/L	U
3298	650998001	1/8/2024	Lead-214	9.01E+00	3.62E+00	7.88E+00	pCi/L	UI
3298	654193001	2/5/2024	Lead-214	3.43E+00	5.08E+00	1.03E+01	pCi/L	U
3298	663093001	4/1/2024	Lead-214	2.39E+00	3.16E+00	7.01E+00	pCi/L	U
3298	665208001	4/30/2024	Lead-214	6.27E+00	5.47E+00	1.20E+01	pCi/L	U
3298	669066001	5/28/2024	Lead-214	-2.30E-01	2.85E+00	8.90E+00	pCi/L	U
3298	672777001	6/24/2024	Lead-214	2.45E+00	4.17E+00	8.62E+00	pCi/L	U
3298	676806001	7/22/2024	Lead-214	8.16E-01	2.81E+00	8.73E+00	pCi/L	U
3298	681493001	8/19/2024	Lead-214	-6.52E+00	3.55E+00	9.95E+00	pCi/L	U
3298	685846001	9/16/2024	Lead-214	1.28E+00	4.71E+00	1.16E+01	pCi/L	U
3298	690097001	10/14/2024	Lead-214	-6.08E+00	2.68E+00	5.45E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	694915001	11/12/2024	Lead-214	2.99E+00	3.99E+00	1.02E+01	pCi/L	U
3298	699437003	12/11/2024	Lead-214	4.75E+00	5.77E+00	1.26E+01	pCi/L	U
3298	650998001	1/8/2024	Manganese-54	-1.73E-01	8.32E-01	2.63E+00	pCi/L	U
3298	654193001	2/5/2024	Manganese-54	-1.32E-01	1.32E+00	4.22E+00	pCi/L	U
3298	663093001	4/1/2024	Manganese-54	-4.74E-01	8.43E-01	2.73E+00	pCi/L	U
3298	665208001	4/30/2024	Manganese-54	-1.53E-01	1.30E+00	4.12E+00	pCi/L	U
3298	669066001	5/28/2024	Manganese-54	-2.77E-01	1.19E+00	3.94E+00	pCi/L	U
3298	672777001	6/24/2024	Manganese-54	3.97E-01	9.62E-01	3.35E+00	pCi/L	U
3298	676806001	7/22/2024	Manganese-54	3.66E-01	9.70E-01	3.37E+00	pCi/L	U
3298	681493001	8/19/2024	Manganese-54	1.15E+00	1.41E+00	5.08E+00	pCi/L	U
3298	685846001	9/16/2024	Manganese-54	-1.13E-02	1.33E+00	4.28E+00	pCi/L	U
3298	690097001	10/14/2024	Manganese-54	7.30E-02	8.88E-01	2.93E+00	pCi/L	U
3298	694915001	11/12/2024	Manganese-54	6.46E-01	1.08E+00	3.81E+00	pCi/L	U
3298	699437003	12/11/2024	Manganese-54	1.23E+00	1.32E+00	4.23E+00	pCi/L	U
3298	650998001	1/8/2024	Molybdenum-99	-1.26E+02	1.16E+02	3.46E+02	pCi/L	U
3298	654193001	2/5/2024	Molybdenum-99	8.59E+01	4.37E+01	1.69E+02	pCi/L	U
3298	663093001	4/1/2024	Molybdenum-99	4.92E+02	4.81E+02	1.09E+03	pCi/L	U
3298	665208001	4/30/2024	Molybdenum-99	-1.40E+02	1.33E+02	3.88E+02	pCi/L	U
3298	669066001	5/28/2024	Molybdenum-99	1.00E+02	5.93E+01	2.29E+02	pCi/L	U
3298	672777001	6/24/2024	Molybdenum-99	-2.31E+02	1.53E+02	4.46E+02	pCi/L	U
3298	676806001	7/22/2024	Molybdenum-99	-1.27E+01	6.04E+01	2.00E+02	pCi/L	U
3298	681493001	8/19/2024	Molybdenum-99	9.42E+00	1.13E+02	3.68E+02	pCi/L	U
3298	685846001	9/16/2024	Molybdenum-99	8.98E+01	8.62E+01	3.13E+02	pCi/L	U
3298	690097001	10/14/2024	Molybdenum-99	8.20E+02	4.17E+02	1.39E+03	pCi/L	U
3298	694915001	11/12/2024	Molybdenum-99	-4.62E+01	7.66E+01	2.50E+02	pCi/L	U
3298	699437003	12/11/2024	Molybdenum-99	-1.32E+01	7.65E+01	2.53E+02	pCi/L	U
3298	650998001	1/8/2024	Niobium-95	1.17E+00	9.67E-01	3.42E+00	pCi/L	U
3298	654193001	2/5/2024	Niobium-95	1.42E+00	1.08E+00	3.94E+00	pCi/L	U
3298	663093001	4/1/2024	Niobium-95	7.59E-01	1.03E+00	3.64E+00	pCi/L	U
3298	665208001	4/30/2024	Niobium-95	9.16E-01	1.23E+00	4.30E+00	pCi/L	U
3298	669066001	5/28/2024	Niobium-95	-3.08E-01	1.16E+00	3.85E+00	pCi/L	U
3298	672777001	6/24/2024	Niobium-95	2.08E-01	1.11E+00	3.57E+00	pCi/L	U
3298	676806001	7/22/2024	Niobium-95	1.02E+00	1.09E+00	3.94E+00	pCi/L	U
3298	681493001	8/19/2024	Niobium-95	1.14E+00	1.45E+00	5.01E+00	pCi/L	U
3298	685846001	9/16/2024	Niobium-95	-1.32E-01	1.24E+00	3.98E+00	pCi/L	U
3298	690097001	10/14/2024	Niobium-95	4.07E-01	1.03E+00	3.47E+00	pCi/L	U
3298	694915001	11/12/2024	Niobium-95	-6.70E-01	1.44E+00	4.72E+00	pCi/L	U
3298	699437003	12/11/2024	Niobium-95	1.07E+00	1.36E+00	4.31E+00	pCi/L	U
3298	650998001	1/8/2024	Potassium-40	3.98E+01	1.51E+01	3.09E+01	pCi/L	UI
3298	654193001	2/5/2024	Potassium-40	-2.24E+01	1.44E+01	4.45E+01	pCi/L	U
3298	663093001	4/1/2024	Potassium-40	4.97E+00	1.47E+01	4.64E+01	pCi/L	U
3298	665208001	4/30/2024	Potassium-40	-2.98E+01	1.81E+01	5.62E+01	pCi/L	U
3298	669066001	5/28/2024	Potassium-40	-6.43E+00	1.76E+01	5.74E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	672777001	6/24/2024	Potassium-40	-2.40E+01	1.41E+01	4.53E+01	pCi/L	U
3298	676806001	7/22/2024	Potassium-40	-5.16E+00	1.44E+01	5.14E+01	pCi/L	U
3298	681493001	8/19/2024	Potassium-40	1.23E+01	1.49E+01	5.43E+01	pCi/L	U
3298	685846001	9/16/2024	Potassium-40	2.91E+01	1.89E+01	7.68E+01	pCi/L	U
3298	690097001	10/14/2024	Potassium-40	4.24E+00	2.06E+01	2.81E+01	pCi/L	U
3298	694915001	11/12/2024	Potassium-40	2.24E+01	2.27E+01	1.69E+01	pCi/L	UI
3298	699437003	12/11/2024	Potassium-40	-1.33E+01	1.74E+01	6.05E+01	pCi/L	U
3298	650998001	1/8/2024	Radium-226	-1.53E+01	2.68E+01	7.83E+01	pCi/L	U
3298	654193001	2/5/2024	Radium-226	-2.59E+01	3.10E+01	9.60E+01	pCi/L	U
3298	663093001	4/1/2024	Radium-226	1.15E+01	3.88E+01	5.09E+01	pCi/L	U
3298	665208001	4/30/2024	Radium-226	3.81E+01	5.54E+01	8.72E+01	pCi/L	U
3298	669066001	5/28/2024	Radium-226	9.82E+00	5.11E+01	7.20E+01	pCi/L	U
3298	672777001	6/24/2024	Radium-226	2.23E+01	4.94E+01	9.34E+01	pCi/L	U
3298	676806001	7/22/2024	Radium-226	5.29E+01	4.60E+01	7.19E+01	pCi/L	U
3298	681493001	8/19/2024	Radium-226	9.60E+01	5.83E+01	7.73E+01	pCi/L	UI
3298	685846001	9/16/2024	Radium-226	6.44E+00	4.46E+01	8.87E+01	pCi/L	U
3298	690097001	10/14/2024	Radium-226	8.22E+00	3.24E+01	4.66E+01	pCi/L	U
3298	694915001	11/12/2024	Radium-226	9.28E+01	4.45E+01	1.22E+02	pCi/L	U
3298	699437003	12/11/2024	Radium-226	-2.48E+01	4.39E+01	1.44E+02	pCi/L	U
3298	650998001	1/8/2024	Radium-228	-4.26E+00	4.71E+00	1.37E+01	pCi/L	U
3298	654193001	2/5/2024	Radium-228	-4.47E+00	5.59E+00	1.65E+01	pCi/L	U
3298	663093001	4/1/2024	Radium-228	-5.86E+00	4.44E+00	1.23E+01	pCi/L	U
3298	665208001	4/30/2024	Radium-228	-9.97E+00	6.60E+00	1.73E+01	pCi/L	U
3298	669066001	5/28/2024	Radium-228	8.68E+00	6.25E+00	2.19E+01	pCi/L	U
3298	672777001	6/24/2024	Radium-228	-3.29E+00	5.32E+00	1.75E+01	pCi/L	U
3298	676806001	7/22/2024	Radium-228	1.01E+01	4.96E+00	1.42E+01	pCi/L	U
3298	681493001	8/19/2024	Radium-228	-2.57E+00	6.84E+00	2.17E+01	pCi/L	U
3298	685846001	9/16/2024	Radium-228	1.83E+00	6.11E+00	2.03E+01	pCi/L	U
3298	690097001	10/14/2024	Radium-228	1.92E+01	4.72E+00	1.11E+01	pCi/L	
3298	694915001	11/12/2024	Radium-228	9.26E+00	9.03E+00	2.10E+01	pCi/L	U
3298	699437003	12/11/2024	Radium-228	-1.39E+00	6.64E+00	1.75E+01	pCi/L	U
3298	650998001	1/8/2024	Ruthenium-103	-8.71E-01	1.15E+00	3.71E+00	pCi/L	U
3298	654193001	2/5/2024	Ruthenium-103	-1.60E+00	1.20E+00	3.65E+00	pCi/L	U
3298	663093001	4/1/2024	Ruthenium-103	-2.13E+00	9.92E-01	2.81E+00	pCi/L	U
3298	665208001	4/30/2024	Ruthenium-103	7.45E-01	1.50E+00	5.17E+00	pCi/L	U
3298	669066001	5/28/2024	Ruthenium-103	-4.32E-01	1.32E+00	4.22E+00	pCi/L	U
3298	672777001	6/24/2024	Ruthenium-103	-3.97E+00	1.36E+00	3.55E+00	pCi/L	U
3298	676806001	7/22/2024	Ruthenium-103	1.13E+00	1.29E+00	3.99E+00	pCi/L	U
3298	681493001	8/19/2024	Ruthenium-103	-4.92E-01	1.38E+00	4.52E+00	pCi/L	U
3298	685846001	9/16/2024	Ruthenium-103	-1.45E+00	1.28E+00	3.86E+00	pCi/L	U
3298	690097001	10/14/2024	Ruthenium-103	4.12E+00	1.95E+00	3.16E+00	pCi/L	UI
3298	694915001	11/12/2024	Ruthenium-103	4.29E-01	1.25E+00	3.81E+00	pCi/L	U
3298	699437003	12/11/2024	Ruthenium-103	-4.33E-01	1.46E+00	4.58E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	650998001	1/8/2024	Ruthenium-106	-6.12E+00	7.57E+00	2.35E+01	pCi/L	U
3298	654193001	2/5/2024	Ruthenium-106	-1.69E+01	1.03E+01	3.03E+01	pCi/L	U
3298	663093001	4/1/2024	Ruthenium-106	2.46E+00	8.12E+00	2.67E+01	pCi/L	U
3298	665208001	4/30/2024	Ruthenium-106	4.00E+00	1.23E+01	3.07E+01	pCi/L	U
3298	669066001	5/28/2024	Ruthenium-106	2.46E+01	1.81E+01	3.32E+01	pCi/L	U
3298	672777001	6/24/2024	Ruthenium-106	3.30E+00	9.67E+00	3.19E+01	pCi/L	U
3298	676806001	7/22/2024	Ruthenium-106	-2.71E+00	1.11E+01	3.01E+01	pCi/L	U
3298	681493001	8/19/2024	Ruthenium-106	2.90E+01	1.14E+01	4.55E+01	pCi/L	U
3298	685846001	9/16/2024	Ruthenium-106	-6.50E+00	1.25E+01	3.93E+01	pCi/L	U
3298	690097001	10/14/2024	Ruthenium-106	-1.12E+00	7.72E+00	2.50E+01	pCi/L	U
3298	694915001	11/12/2024	Ruthenium-106	2.84E+01	1.49E+01	3.79E+01	pCi/L	U
3298	699437003	12/11/2024	Ruthenium-106	-2.39E+01	1.34E+01	3.53E+01	pCi/L	U
3298	650998001	1/8/2024	Selenium-75	2.78E-01	1.32E+00	4.17E+00	pCi/L	U
3298	654193001	2/5/2024	Selenium-75	-1.23E+00	1.82E+00	5.23E+00	pCi/L	U
3298	663093001	4/1/2024	Selenium-75	3.69E-01	1.03E+00	3.27E+00	pCi/L	U
3298	665208001	4/30/2024	Selenium-75	-2.58E+00	1.99E+00	5.73E+00	pCi/L	U
3298	669066001	5/28/2024	Selenium-75	-1.46E+00	1.72E+00	5.04E+00	pCi/L	U
3298	672777001	6/24/2024	Selenium-75	4.60E-01	1.40E+00	4.85E+00	pCi/L	U
3298	676806001	7/22/2024	Selenium-75	-9.04E-01	1.55E+00	4.93E+00	pCi/L	U
3298	681493001	8/19/2024	Selenium-75	1.43E+00	1.66E+00	5.83E+00	pCi/L	U
3298	685846001	9/16/2024	Selenium-75	2.31E-01	1.61E+00	5.16E+00	pCi/L	U
3298	690097001	10/14/2024	Selenium-75	-1.27E-01	9.78E-01	3.25E+00	pCi/L	U
3298	694915001	11/12/2024	Selenium-75	2.01E-01	1.90E+00	5.97E+00	pCi/L	U
3298	699437003	12/11/2024	Selenium-75	1.96E+00	1.96E+00	6.67E+00	pCi/L	U
3298	650998001	1/8/2024	Silver-108m	-1.93E+00	1.09E+00	2.82E+00	pCi/L	U
3298	654193001	2/5/2024	Silver-108m	-2.15E-01	1.29E+00	4.17E+00	pCi/L	U
3298	663093001	4/1/2024	Silver-108m	-5.62E-01	7.18E-01	2.28E+00	pCi/L	U
3298	665208001	4/30/2024	Silver-108m	1.10E+00	9.80E-01	3.58E+00	pCi/L	U
3298	669066001	5/28/2024	Silver-108m	-9.77E-01	1.06E+00	3.26E+00	pCi/L	U
3298	672777001	6/24/2024	Silver-108m	3.36E-01	7.50E-01	2.57E+00	pCi/L	U
3298	676806001	7/22/2024	Silver-108m	-1.26E+00	1.03E+00	3.02E+00	pCi/L	U
3298	681493001	8/19/2024	Silver-108m	-7.04E-01	1.11E+00	3.31E+00	pCi/L	U
3298	685846001	9/16/2024	Silver-108m	2.03E+00	2.18E+00	3.93E+00	pCi/L	U
3298	690097001	10/14/2024	Silver-108m	-2.58E-01	6.98E-01	2.21E+00	pCi/L	U
3298	694915001	11/12/2024	Silver-108m	-1.12E+00	9.80E-01	2.99E+00	pCi/L	U
3298	699437003	12/11/2024	Silver-108m	9.31E-01	1.15E+00	3.89E+00	pCi/L	U
3298	650998001	1/8/2024	Silver-110m	1.35E+00	1.08E+00	3.89E+00	pCi/L	U
3298	654193001	2/5/2024	Silver-110m	-3.95E-01	1.90E+00	5.27E+00	pCi/L	U
3298	663093001	4/1/2024	Silver-110m	-2.49E-01	1.28E+00	4.24E+00	pCi/L	U
3298	665208001	4/30/2024	Silver-110m	2.35E+00	1.45E+00	5.59E+00	pCi/L	U
3298	669066001	5/28/2024	Silver-110m	9.19E-01	1.48E+00	5.30E+00	pCi/L	U
3298	672777001	6/24/2024	Silver-110m	3.02E+00	1.51E+00	4.56E+00	pCi/L	U
3298	676806001	7/22/2024	Silver-110m	-5.74E-01	1.46E+00	4.71E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	681493001	8/19/2024	Silver-110m	6.93E-01	1.69E+00	5.64E+00	pCi/L	U
3298	685846001	9/16/2024	Silver-110m	9.48E-01	1.78E+00	6.05E+00	pCi/L	U
3298	690097001	10/14/2024	Silver-110m	-8.69E-01	1.15E+00	3.59E+00	pCi/L	U
3298	694915001	11/12/2024	Silver-110m	1.97E-01	1.46E+00	4.95E+00	pCi/L	U
3298	699437003	12/11/2024	Silver-110m	2.91E-02	1.58E+00	5.26E+00	pCi/L	U
3298	650998001	1/8/2024	Tellurium-132	-4.07E+00	9.43E+00	2.92E+01	pCi/L	U
3298	654193001	2/5/2024	Tellurium-132	-4.66E+00	4.54E+00	1.35E+01	pCi/L	U
3298	663093001	4/1/2024	Tellurium-132	4.76E+00	2.02E+01	6.41E+01	pCi/L	U
3298	665208001	4/30/2024	Tellurium-132	-3.79E+00	1.09E+01	3.38E+01	pCi/L	U
3298	669066001	5/28/2024	Tellurium-132	1.54E+00	6.01E+00	1.93E+01	pCi/L	U
3298	672777001	6/24/2024	Tellurium-132	5.74E+00	1.42E+01	4.50E+01	pCi/L	U
3298	676806001	7/22/2024	Tellurium-132	2.68E+00	5.67E+00	1.91E+01	pCi/L	U
3298	681493001	8/19/2024	Tellurium-132	-5.01E+00	7.20E+00	2.34E+01	pCi/L	U
3298	685846001	9/16/2024	Tellurium-132	-5.43E+00	7.57E+00	2.30E+01	pCi/L	U
3298	690097001	10/14/2024	Tellurium-132	3.27E+01	1.99E+01	6.39E+01	pCi/L	U
3298	694915001	11/12/2024	Tellurium-132	-4.61E-01	6.77E+00	2.13E+01	pCi/L	U
3298	699437003	12/11/2024	Tellurium-132	9.51E+00	7.47E+00	2.57E+01	pCi/L	U
3298	650998001	1/8/2024	Thallium-208	-1.80E+00	1.29E+00	3.45E+00	pCi/L	U
3298	654193001	2/5/2024	Thallium-208	-5.28E-01	1.40E+00	4.19E+00	pCi/L	U
3298	663093001	4/1/2024	Thallium-208	-1.34E+00	1.18E+00	3.40E+00	pCi/L	U
3298	665208001	4/30/2024	Thallium-208	-1.28E+00	1.67E+00	5.18E+00	pCi/L	U
3298	669066001	5/28/2024	Thallium-208	-1.09E+00	1.64E+00	5.12E+00	pCi/L	U
3298	672777001	6/24/2024	Thallium-208	-1.38E+00	1.36E+00	3.96E+00	pCi/L	U
3298	676806001	7/22/2024	Thallium-208	8.01E-01	2.26E+00	3.21E+00	pCi/L	U
3298	681493001	8/19/2024	Thallium-208	2.76E+00	2.09E+00	4.10E+00	pCi/L	U
3298	685846001	9/16/2024	Thallium-208	-1.01E+00	1.45E+00	4.49E+00	pCi/L	U
3298	690097001	10/14/2024	Thallium-208	-1.34E+00	1.86E+00	3.31E+00	pCi/L	U
3298	694915001	11/12/2024	Thallium-208	1.04E+00	2.13E+00	4.54E+00	pCi/L	U
3298	699437003	12/11/2024	Thallium-208	-6.98E-01	1.82E+00	5.61E+00	pCi/L	U
3298	650998001	1/8/2024	Thorium-228	2.30E+00	3.52E+00	5.16E+00	pCi/L	U
3298	654193001	2/5/2024	Thorium-228	2.88E+00	2.62E+00	8.02E+00	pCi/L	U
3298	663093001	4/1/2024	Thorium-228	1.44E-02	2.51E+00	5.82E+00	pCi/L	U
3298	665208001	4/30/2024	Thorium-228	8.71E-01	4.03E+00	1.07E+01	pCi/L	U
3298	669066001	5/28/2024	Thorium-228	6.78E+00	4.44E+00	9.18E+00	pCi/L	U
3298	672777001	6/24/2024	Thorium-228	-2.79E+00	2.23E+00	7.19E+00	pCi/L	U
3298	676806001	7/22/2024	Thorium-228	7.00E+00	4.69E+00	9.35E+00	pCi/L	U
3298	681493001	8/19/2024	Thorium-228	1.08E+00	3.80E+00	9.12E+00	pCi/L	U
3298	685846001	9/16/2024	Thorium-228	-4.54E+00	2.91E+00	8.48E+00	pCi/L	U
3298	690097001	10/14/2024	Thorium-228	2.09E+00	2.34E+00	4.04E+00	pCi/L	U
3298	694915001	11/12/2024	Thorium-228	3.70E+00	2.99E+00	8.63E+00	pCi/L	U
3298	699437003	12/11/2024	Thorium-228	2.23E+00	5.05E+00	9.00E+00	pCi/L	U
3298	650998001	1/8/2024	Thorium-230	2.07E+03	6.90E+02	1.09E+03	pCi/L	UI
3298	654193001	2/5/2024	Thorium-230	1.43E+03	9.21E+02	1.31E+03	pCi/L	UI

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Table 16: Complete REMP Results – Drinking Water (pCi/L)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	663093001	4/1/2024	Thorium-230	7.61E+01	3.40E+02	1.17E+03	pCi/L	U
3298	665208001	4/30/2024	Thorium-230	-5.52E+02	6.43E+02	2.07E+03	pCi/L	U
3298	669066001	5/28/2024	Thorium-230	1.23E+03	9.57E+02	1.47E+03	pCi/L	U
3298	672777001	6/24/2024	Thorium-230	1.17E+03	5.06E+02	9.25E+02	pCi/L	UI
3298	676806001	7/22/2024	Thorium-230	5.85E+02	4.31E+02	1.41E+03	pCi/L	U
3298	681493001	8/19/2024	Thorium-230	6.91E+02	6.82E+02	2.42E+03	pCi/L	U
3298	685846001	9/16/2024	Thorium-230	1.66E+03	1.01E+03	2.47E+03	pCi/L	U
3298	690097001	10/14/2024	Thorium-230	-2.00E+02	1.27E+02	4.00E+02	pCi/L	U
3298	694915001	11/12/2024	Thorium-230	-4.42E+02	5.07E+02	1.59E+03	pCi/L	U
3298	699437003	12/11/2024	Thorium-230	8.96E+01	8.08E+02	2.71E+03	pCi/L	U
3298	650998001	1/8/2024	Thorium-232	1.54E+02	9.42E+02	1.88E+03	pCi/L	U
3298	654193001	2/5/2024	Thorium-232	1.87E+03	1.05E+03	2.26E+03	pCi/L	U
3298	663093001	4/1/2024	Thorium-232	-1.42E+03	7.65E+02	2.25E+03	pCi/L	U
3298	665208001	4/30/2024	Thorium-232	6.13E+02	1.51E+03	4.69E+03	pCi/L	U
3298	669066001	5/28/2024	Thorium-232	1.74E+02	1.32E+03	2.58E+03	pCi/L	U
3298	672777001	6/24/2024	Thorium-232	3.32E+02	1.03E+03	1.29E+03	pCi/L	U
3298	676806001	7/22/2024	Thorium-232	5.76E+03	1.63E+03	2.36E+03	pCi/L	UI
3298	681493001	8/19/2024	Thorium-232	1.40E+02	1.20E+03	4.08E+03	pCi/L	U
3298	685846001	9/16/2024	Thorium-232	2.52E+03	2.20E+03	3.94E+03	pCi/L	U
3298	690097001	10/14/2024	Thorium-232	-4.33E+02	2.92E+02	8.00E+02	pCi/L	U
3298	694915001	11/12/2024	Thorium-232	2.41E+02	1.33E+03	2.67E+03	pCi/L	U
3298	699437003	12/11/2024	Thorium-232	-7.45E+02	1.77E+03	5.60E+03	pCi/L	U
3298	665208001	4/30/2024	Thorium-234	-5.74E+01	1.13E+02	3.37E+02	pCi/L	U
3298	672777001	6/24/2024	Thorium-234	2.33E+01	7.20E+01	9.23E+01	pCi/L	U
3298	694915001	11/12/2024	Thorium-234	1.70E+01	9.37E+01	1.93E+02	pCi/L	U
3298	699437003	12/11/2024	Thorium-234	-1.39E+02	1.28E+02	3.98E+02	pCi/L	U
3298	650998001	1/8/2024	Tritium	-9.45E+01	9.92E+01	3.44E+02	pCi/L	U
3298	654193001	2/5/2024	Tritium	1.29E+01	6.68E+01	2.16E+02	pCi/L	U
3298	664027002	3/4/2024	Tritium	4.74E+02	2.30E+02	6.82E+02	pCi/L	U
3298	657413001	3/4/2024	Tritium	-5.28E+01			pCi/L	
3298	663093001	4/1/2024	Tritium	1.23E+02	1.05E+02	3.23E+02	pCi/L	U
3298	665208001	4/30/2024	Tritium	-3.30E+01	9.92E+01	3.33E+02	pCi/L	U
3298	669066001	5/28/2024	Tritium	6.69E+01	9.80E+01	3.09E+02	pCi/L	U
3298	672777001	6/24/2024	Tritium	8.29E+02	1.31E+02	1.92E+02	pCi/L	
3298	676806001	7/22/2024	Tritium	1.02E+03	3.12E+02	3.96E+02	pCi/L	
3298	681493001	8/19/2024	Tritium	8.37E+02	1.41E+02	3.55E+02	pCi/L	
3298	685846001	9/16/2024	Tritium	1.93E+02	9.03E+01	2.69E+02	pCi/L	U
3298	690097001	10/14/2024	Tritium	5.82E+02	2.27E+02	2.53E+02	pCi/L	
3298	690097001	10/14/2024	Tritium	5.40E+02	1.16E+02	3.17E+02	pCi/L	
3298	694915001	11/12/2024	Tritium	2.38E+03	1.71E+02	3.33E+02	pCi/L	
3298	699437003	12/11/2024	Tritium	6.98E+02	1.11E+02	2.76E+02	pCi/L	
3298	650998001	1/8/2024	Uranium-234	5.14E+03	2.47E+03	8.93E+03	pCi/L	U
3298	654193001	2/5/2024	Uranium-234	2.01E+03	2.82E+03	9.80E+03	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3298	663093001	4/1/2024	Uranium-234	-1.29E+01	2.71E+03	9.34E+03	pCi/L	U
3298	665208001	4/30/2024	Uranium-234	3.25E+02	7.11E+03	2.42E+04	pCi/L	U
3298	669066001	5/28/2024	Uranium-234	2.07E+02	3.77E+03	1.30E+04	pCi/L	U
3298	672777001	6/24/2024	Uranium-234	-6.56E+02	1.61E+03	4.87E+03	pCi/L	U
3298	676806001	7/22/2024	Uranium-234	3.37E+03	2.66E+03	9.51E+03	pCi/L	U
3298	681493001	8/19/2024	Uranium-234	6.34E+02	5.01E+03	1.75E+04	pCi/L	U
3298	685846001	9/16/2024	Uranium-234	-1.41E+02	7.17E+03	2.46E+04	pCi/L	U
3298	690097001	10/14/2024	Uranium-234	1.22E+03	7.01E+02	1.10E+03	pCi/L	UI
3298	694915001	11/12/2024	Uranium-234	-5.34E+03	3.83E+03	1.17E+04	pCi/L	U
3298	699437003	12/11/2024	Uranium-234	-9.26E+03	7.41E+03	2.37E+04	pCi/L	U
3298	650998001	1/8/2024	Zinc-65	2.23E+00	1.77E+00	6.63E+00	pCi/L	U
3298	654193001	2/5/2024	Zinc-65	7.82E-01	2.28E+00	7.98E+00	pCi/L	U
3298	663093001	4/1/2024	Zinc-65	-1.67E+00	1.92E+00	5.81E+00	pCi/L	U
3298	665208001	4/30/2024	Zinc-65	-5.75E-01	2.59E+00	8.51E+00	pCi/L	U
3298	669066001	5/28/2024	Zinc-65	3.71E+00	2.36E+00	9.26E+00	pCi/L	U
3298	672777001	6/24/2024	Zinc-65	-2.71E+00	2.21E+00	6.29E+00	pCi/L	U
3298	676806001	7/22/2024	Zinc-65	1.10E+00	2.08E+00	7.30E+00	pCi/L	U
3298	681493001	8/19/2024	Zinc-65	-6.99E-01	2.68E+00	8.46E+00	pCi/L	U
3298	685846001	9/16/2024	Zinc-65	-3.84E+00	2.67E+00	5.45E+00	pCi/L	U
3298	690097001	10/14/2024	Zinc-65	-2.15E+00	1.96E+00	4.83E+00	pCi/L	U
3298	694915001	11/12/2024	Zinc-65	7.99E-01	2.55E+00	8.61E+00	pCi/L	U
3298	699437003	12/11/2024	Zinc-65	-1.63E+00	2.70E+00	8.33E+00	pCi/L	U
3298	650998001	1/8/2024	Zirconium-95	-1.46E+00	1.93E+00	5.93E+00	pCi/L	U
3298	654193001	2/5/2024	Zirconium-95	7.52E-01	1.86E+00	6.31E+00	pCi/L	U
3298	663093001	4/1/2024	Zirconium-95	5.13E-01	1.51E+00	5.25E+00	pCi/L	U
3298	665208001	4/30/2024	Zirconium-95	4.01E+00	2.56E+00	9.45E+00	pCi/L	U
3298	669066001	5/28/2024	Zirconium-95	-3.19E+00	2.44E+00	7.36E+00	pCi/L	U
3298	672777001	6/24/2024	Zirconium-95	-1.02E+00	2.30E+00	6.56E+00	pCi/L	U
3298	676806001	7/22/2024	Zirconium-95	2.11E+00	1.64E+00	6.19E+00	pCi/L	U
3298	681493001	8/19/2024	Zirconium-95	-5.38E-01	2.48E+00	7.80E+00	pCi/L	U
3298	685846001	9/16/2024	Zirconium-95	4.53E+00	2.19E+00	8.67E+00	pCi/L	U
3298	690097001	10/14/2024	Zirconium-95	-8.56E-01	1.66E+00	5.36E+00	pCi/L	U
3298	694915001	11/12/2024	Zirconium-95	-2.38E+00	1.94E+00	5.85E+00	pCi/L	U
3298	699437003	12/11/2024	Zirconium-95	2.70E+00	2.43E+00	8.77E+00	pCi/L	U
3323	650998002	1/8/2024	Actinium-228	8.90E+00	6.47E+00	1.43E+01	pCi/L	U
3323	654193002	2/6/2024	Actinium-228	4.10E+00	5.19E+00	1.88E+01	pCi/L	U
3323	663093002	4/3/2024	Actinium-228	-5.85E+00	4.22E+00	1.11E+01	pCi/L	U
3323	665208002	5/1/2024	Actinium-228	-8.02E+00	5.69E+00	1.68E+01	pCi/L	U
3323	669066002	5/28/2024	Actinium-228	-3.77E+00	4.02E+00	1.14E+01	pCi/L	U
3323	672777002	6/25/2024	Actinium-228	-1.86E-01	4.69E+00	1.52E+01	pCi/L	U
3323	676806002	7/23/2024	Actinium-228	-4.95E+00	4.10E+00	1.23E+01	pCi/L	U
3323	681493003	8/20/2024	Actinium-228	-1.36E+00	5.53E+00	1.78E+01	pCi/L	U
3323	685846002	9/17/2024	Actinium-228	2.51E+00	4.29E+00	1.49E+01	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	690097002	10/15/2024	Actinium-228	3.68E+00	2.75E+00	9.86E+00	pCi/L	U
3323	694915002	11/12/2024	Actinium-228	-4.21E+00	5.14E+00	1.48E+01	pCi/L	U
3323	699437001	12/10/2024	Actinium-228	-4.20E+00	4.38E+00	1.40E+01	pCi/L	U
3323	650998002	1/8/2024	Americium-241	2.32E+00	5.48E+00	1.82E+01	pCi/L	U
3323	654193002	2/6/2024	Americium-241	-1.68E-01	3.94E+00	1.29E+01	pCi/L	U
3323	663093002	4/3/2024	Americium-241	-3.59E+00	4.27E+00	1.26E+01	pCi/L	U
3323	665208002	5/1/2024	Americium-241	2.33E-01	6.58E+00	2.21E+01	pCi/L	U
3323	669066002	5/28/2024	Americium-241	8.95E+00	2.72E+00	1.05E+01	pCi/L	U
3323	672777002	6/25/2024	Americium-241	-3.53E-01	6.23E+00	1.91E+01	pCi/L	U
3323	676806002	7/23/2024	Americium-241	2.37E+00	3.91E+00	1.24E+01	pCi/L	U
3323	681493003	8/20/2024	Americium-241	8.39E+00	6.17E+00	2.20E+01	pCi/L	U
3323	685846002	9/17/2024	Americium-241	9.50E+00	6.39E+00	2.11E+01	pCi/L	U
3323	690097002	10/15/2024	Americium-241	1.33E+00	9.12E-01	3.24E+00	pCi/L	U
3323	694915002	11/12/2024	Americium-241	4.36E+00	5.86E+00	1.99E+01	pCi/L	U
3323	699437001	12/10/2024	Americium-241	-2.08E+00	7.17E+00	2.15E+01	pCi/L	U
3323	650998002	1/8/2024	Antimony-124	1.06E+00	2.08E+00	7.19E+00	pCi/L	U
3323	654193002	2/6/2024	Antimony-124	-2.43E+00	2.31E+00	6.61E+00	pCi/L	U
3323	663093002	4/3/2024	Antimony-124	5.06E-01	2.37E+00	6.89E+00	pCi/L	U
3323	665208002	5/1/2024	Antimony-124	7.00E-01	2.67E+00	9.09E+00	pCi/L	U
3323	669066002	5/28/2024	Antimony-124	-4.50E-01	2.64E+00	8.62E+00	pCi/L	U
3323	672777002	6/25/2024	Antimony-124	1.87E+00	2.07E+00	7.82E+00	pCi/L	U
3323	676806002	7/23/2024	Antimony-124	-1.11E+00	2.50E+00	7.46E+00	pCi/L	U
3323	681493003	8/20/2024	Antimony-124	-2.42E+00	1.79E+00	3.68E+00	pCi/L	U
3323	685846002	9/17/2024	Antimony-124	7.17E-01	2.75E+00	9.30E+00	pCi/L	U
3323	690097002	10/15/2024	Antimony-124	-1.27E+00	1.81E+00	5.42E+00	pCi/L	U
3323	694915002	11/12/2024	Antimony-124	3.56E+00	2.55E+00	9.84E+00	pCi/L	U
3323	699437001	12/10/2024	Antimony-124	-1.30E+00	2.52E+00	7.59E+00	pCi/L	U
3323	650998002	1/8/2024	Antimony-125	1.89E+00	2.28E+00	7.92E+00	pCi/L	U
3323	654193002	2/6/2024	Antimony-125	2.92E+00	2.69E+00	9.49E+00	pCi/L	U
3323	663093002	4/3/2024	Antimony-125	2.67E-02	2.09E+00	6.95E+00	pCi/L	U
3323	665208002	5/1/2024	Antimony-125	4.85E+00	3.16E+00	1.16E+01	pCi/L	U
3323	669066002	5/28/2024	Antimony-125	1.11E+00	2.28E+00	8.09E+00	pCi/L	U
3323	672777002	6/25/2024	Antimony-125	2.30E-01	3.03E+00	9.81E+00	pCi/L	U
3323	676806002	7/23/2024	Antimony-125	4.13E+00	2.54E+00	9.37E+00	pCi/L	U
3323	681493003	8/20/2024	Antimony-125	2.10E+00	3.30E+00	1.15E+01	pCi/L	U
3323	685846002	9/17/2024	Antimony-125	-3.93E+00	2.41E+00	7.02E+00	pCi/L	U
3323	690097002	10/15/2024	Antimony-125	-7.21E-01	1.58E+00	5.24E+00	pCi/L	U
3323	694915002	11/12/2024	Antimony-125	6.62E+00	3.51E+00	8.97E+00	pCi/L	U
3323	699437001	12/10/2024	Antimony-125	-2.35E-01	2.27E+00	7.52E+00	pCi/L	U
3323	650998002	1/8/2024	Barium-140	3.19E+00	5.59E+00	1.90E+01	pCi/L	U
3323	654193002	2/6/2024	Barium-140	-1.93E+00	4.86E+00	1.53E+01	pCi/L	U
3323	663093002	4/3/2024	Barium-140	8.62E+00	5.62E+00	2.01E+01	pCi/L	U
3323	665208002	5/1/2024	Barium-140	3.81E+00	6.26E+00	2.18E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	669066002	5/28/2024	Barium-140	3.40E+00	5.02E+00	1.79E+01	pCi/L	U
3323	672777002	6/25/2024	Barium-140	-7.06E+00	7.72E+00	2.11E+01	pCi/L	U
3323	676806002	7/23/2024	Barium-140	-3.57E+00	4.21E+00	1.25E+01	pCi/L	U
3323	681493003	8/20/2024	Barium-140	1.44E+01	6.22E+00	2.39E+01	pCi/L	U
3323	685846002	9/17/2024	Barium-140	1.64E+00	4.68E+00	1.59E+01	pCi/L	U
3323	690097002	10/15/2024	Barium-140	2.12E+00	4.90E+00	1.65E+01	pCi/L	U
3323	694915002	11/12/2024	Barium-140	3.82E+00	5.99E+00	2.05E+01	pCi/L	U
3323	699437001	12/10/2024	Barium-140	1.03E+01	1.03E+01	1.90E+01	pCi/L	U
3323	650998002	1/8/2024	Beryllium-7	-4.28E+00	7.31E+00	2.34E+01	pCi/L	U
3323	654193002	2/6/2024	Beryllium-7	5.06E+00	7.83E+00	2.69E+01	pCi/L	U
3323	663093002	4/3/2024	Beryllium-7	5.95E+00	6.40E+00	2.23E+01	pCi/L	U
3323	665208002	5/1/2024	Beryllium-7	1.72E+01	1.02E+01	3.79E+01	pCi/L	U
3323	669066002	5/28/2024	Beryllium-7	-7.07E+00	9.95E+00	2.83E+01	pCi/L	U
3323	672777002	6/25/2024	Beryllium-7	1.20E+01	9.28E+00	3.28E+01	pCi/L	U
3323	676806002	7/23/2024	Beryllium-7	-3.34E+00	8.73E+00	2.79E+01	pCi/L	U
3323	681493003	8/20/2024	Beryllium-7	1.33E+01	1.02E+01	3.70E+01	pCi/L	U
3323	685846002	9/17/2024	Beryllium-7	4.65E+00	8.76E+00	3.01E+01	pCi/L	U
3323	690097002	10/15/2024	Beryllium-7	5.84E+00	5.68E+00	1.97E+01	pCi/L	U
3323	694915002	11/12/2024	Beryllium-7	4.61E-01	8.10E+00	2.70E+01	pCi/L	U
3323	699437001	12/10/2024	Beryllium-7	5.94E+00	8.44E+00	2.94E+01	pCi/L	U
3323	650998002	1/8/2024	BETA	1.22E+00	8.09E-01	2.31E+00	pCi/L	U
3323	654193002	2/6/2024	BETA	2.60E+00	9.80E-01	2.65E+00	pCi/L	U
3323	657413003	3/4/2024	Beta	1.74E+00			pCi/L	
3323	663093002	4/3/2024	BETA	4.10E-01	7.65E-01	2.39E+00	pCi/L	U
3323	665208002	5/1/2024	BETA	1.89E+00	1.05E+00	3.07E+00	pCi/L	U
3323	669066002	5/28/2024	BETA	-4.99E-01	8.98E-01	3.05E+00	pCi/L	U
3323	672777002	6/25/2024	BETA	1.76E+00	8.79E-01	2.45E+00	pCi/L	U
3323	676806002	7/23/2024	BETA	1.38E+00	1.02E+00	3.05E+00	pCi/L	U
3323	681493003	8/20/2024	BETA	5.22E-01	7.99E-01	2.50E+00	pCi/L	U
3323	685846002	9/17/2024	BETA	8.30E-01	7.27E-01	2.22E+00	pCi/L	U
3323	690097002	10/15/2024	BETA	2.14E+00	9.19E-01	2.52E+00	pCi/L	U
3323	694915002	11/12/2024	BETA	2.49E+00	1.02E+00	2.80E+00	pCi/L	U
3323	699437001	12/10/2024	BETA	7.87E-01	8.77E-01	2.70E+00	pCi/L	U
3323	650998002	1/8/2024	Bismuth-214	7.20E+00	4.04E+00	5.32E+00	pCi/L	UI
3323	654193002	2/6/2024	Bismuth-214	9.33E+00	4.00E+00	6.68E+00	pCi/L	UI
3323	663093002	4/3/2024	Bismuth-214	8.55E+00	3.51E+00	4.95E+00	pCi/L	UI
3323	665208002	5/1/2024	Bismuth-214	8.70E-01	2.91E+00	9.23E+00	pCi/L	U
3323	669066002	5/28/2024	Bismuth-214	-1.44E+00	2.57E+00	7.98E+00	pCi/L	U
3323	672777002	6/25/2024	Bismuth-214	6.03E-01	2.93E+00	8.64E+00	pCi/L	U
3323	676806002	7/23/2024	Bismuth-214	-2.58E+00	2.62E+00	7.70E+00	pCi/L	U
3323	681493003	8/20/2024	Bismuth-214	9.93E+00	3.46E+00	9.36E+00	pCi/L	UI
3323	685846002	9/17/2024	Bismuth-214	-2.63E+00	2.32E+00	6.87E+00	pCi/L	U
3323	690097002	10/15/2024	Bismuth-214	3.57E+00	2.67E+00	5.21E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	694915002	11/12/2024	Bismuth-214	1.14E+01	5.04E+00	6.07E+00	pCi/L	UI
3323	699437001	12/10/2024	Bismuth-214	7.21E+00	3.22E+00	8.39E+00	pCi/L	U
3323	650998002	1/8/2024	Cerium-141	-2.54E-01	1.84E+00	5.81E+00	pCi/L	U
3323	654193002	2/6/2024	Cerium-141	-1.50E+00	1.87E+00	5.47E+00	pCi/L	U
3323	663093002	4/3/2024	Cerium-141	-1.35E+00	1.49E+00	4.57E+00	pCi/L	U
3323	665208002	5/1/2024	Cerium-141	-4.20E+00	2.23E+00	6.62E+00	pCi/L	U
3323	669066002	5/28/2024	Cerium-141	-1.33E-01	1.72E+00	5.60E+00	pCi/L	U
3323	672777002	6/25/2024	Cerium-141	-2.27E+00	2.70E+00	8.06E+00	pCi/L	U
3323	676806002	7/23/2024	Cerium-141	5.49E-01	1.70E+00	5.08E+00	pCi/L	U
3323	681493003	8/20/2024	Cerium-141	1.16E+00	2.07E+00	6.86E+00	pCi/L	U
3323	685846002	9/17/2024	Cerium-141	1.49E+00	1.92E+00	5.90E+00	pCi/L	U
3323	690097002	10/15/2024	Cerium-141	-2.84E+00	1.04E+00	3.18E+00	pCi/L	U
3323	694915002	11/12/2024	Cerium-141	-1.31E+00	2.02E+00	5.93E+00	pCi/L	U
3323	699437001	12/10/2024	Cerium-141	1.23E+00	2.00E+00	6.54E+00	pCi/L	U
3323	650998002	1/8/2024	Cerium-144	6.07E-01	5.73E+00	1.84E+01	pCi/L	U
3323	654193002	2/6/2024	Cerium-144	-5.69E+00	7.20E+00	2.20E+01	pCi/L	U
3323	663093002	4/3/2024	Cerium-144	-8.81E+00	5.14E+00	1.54E+01	pCi/L	U
3323	665208002	5/1/2024	Cerium-144	-1.56E+01	8.16E+00	2.30E+01	pCi/L	U
3323	669066002	5/28/2024	Cerium-144	-5.48E-01	5.76E+00	1.89E+01	pCi/L	U
3323	672777002	6/25/2024	Cerium-144	-1.46E+00	7.80E+00	2.60E+01	pCi/L	U
3323	676806002	7/23/2024	Cerium-144	3.08E+00	5.61E+00	1.84E+01	pCi/L	U
3323	681493003	8/20/2024	Cerium-144	-8.36E+00	7.57E+00	2.34E+01	pCi/L	U
3323	685846002	9/17/2024	Cerium-144	-7.12E+00	6.68E+00	2.02E+01	pCi/L	U
3323	690097002	10/15/2024	Cerium-144	-2.40E+00	3.10E+00	1.00E+01	pCi/L	U
3323	694915002	11/12/2024	Cerium-144	3.92E+00	6.79E+00	2.23E+01	pCi/L	U
3323	699437001	12/10/2024	Cerium-144	-3.49E+00	6.85E+00	2.14E+01	pCi/L	U
3323	650998002	1/8/2024	Cesium-134	-3.62E-01	1.04E+00	3.27E+00	pCi/L	U
3323	654193002	2/6/2024	Cesium-134	-1.13E+00	1.06E+00	2.91E+00	pCi/L	U
3323	663093002	4/3/2024	Cesium-134	5.98E-01	9.39E-01	3.13E+00	pCi/L	U
3323	665208002	5/1/2024	Cesium-134	-6.82E-01	1.41E+00	3.81E+00	pCi/L	U
3323	669066002	5/28/2024	Cesium-134	1.52E+00	1.06E+00	3.98E+00	pCi/L	U
3323	672777002	6/25/2024	Cesium-134	1.09E-01	9.20E-01	3.14E+00	pCi/L	U
3323	676806002	7/23/2024	Cesium-134	1.90E+00	1.18E+00	4.31E+00	pCi/L	U
3323	681493003	8/20/2024	Cesium-134	4.36E-01	1.26E+00	4.20E+00	pCi/L	U
3323	685846002	9/17/2024	Cesium-134	3.34E-01	1.08E+00	3.58E+00	pCi/L	U
3323	690097002	10/15/2024	Cesium-134	7.00E-02	8.57E-01	2.45E+00	pCi/L	U
3323	694915002	11/12/2024	Cesium-134	4.69E-01	9.82E-01	3.02E+00	pCi/L	U
3323	699437001	12/10/2024	Cesium-134	6.81E-01	9.34E-01	3.25E+00	pCi/L	U
3323	650998002	1/8/2024	Cesium-137	-1.63E+00	1.24E+00	3.41E+00	pCi/L	U
3323	654193002	2/6/2024	Cesium-137	-1.24E-01	1.19E+00	3.73E+00	pCi/L	U
3323	657413003	3/4/2024	Cesium-137	5.71E-01			pCi/L	
3323	663093002	4/3/2024	Cesium-137	-1.31E-01	8.21E-01	2.32E+00	pCi/L	U
3323	665208002	5/1/2024	Cesium-137	2.27E+00	1.21E+00	4.54E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	669066002	5/28/2024	Cesium-137	1.57E+00	1.12E+00	4.16E+00	pCi/L	U
3323	672777002	6/25/2024	Cesium-137	1.07E+00	2.17E+00	3.06E+00	pCi/L	U
3323	676806002	7/23/2024	Cesium-137	5.59E-01	1.04E+00	3.53E+00	pCi/L	U
3323	681493003	8/20/2024	Cesium-137	-1.10E+00	1.43E+00	4.12E+00	pCi/L	U
3323	685846002	9/17/2024	Cesium-137	-8.03E-01	9.40E-01	2.80E+00	pCi/L	U
3323	690097002	10/15/2024	Cesium-137	3.01E-01	6.27E-01	2.09E+00	pCi/L	U
3323	694915002	11/12/2024	Cesium-137	2.69E+00	1.11E+00	4.26E+00	pCi/L	U
3323	699437001	12/10/2024	Cesium-137	5.37E-01	8.92E-01	3.07E+00	pCi/L	U
3323	650998002	1/8/2024	Chromium-51	-7.00E+00	8.67E+00	2.84E+01	pCi/L	U
3323	654193002	2/6/2024	Chromium-51	-3.04E+00	1.01E+01	2.96E+01	pCi/L	U
3323	663093002	4/3/2024	Chromium-51	1.55E+01	8.33E+00	3.03E+01	pCi/L	U
3323	665208002	5/1/2024	Chromium-51	-2.75E+00	1.05E+01	3.57E+01	pCi/L	U
3323	669066002	5/28/2024	Chromium-51	1.90E+01	9.01E+00	3.13E+01	pCi/L	U
3323	672777002	6/25/2024	Chromium-51	1.64E+01	1.16E+01	4.10E+01	pCi/L	U
3323	676806002	7/23/2024	Chromium-51	-2.48E-01	8.53E+00	2.87E+01	pCi/L	U
3323	681493003	8/20/2024	Chromium-51	6.59E+00	1.05E+01	3.71E+01	pCi/L	U
3323	685846002	9/17/2024	Chromium-51	-1.56E+01	9.38E+00	2.89E+01	pCi/L	U
3323	690097002	10/15/2024	Chromium-51	-1.45E+00	6.19E+00	2.11E+01	pCi/L	U
3323	694915002	11/12/2024	Chromium-51	2.58E+00	8.61E+00	2.97E+01	pCi/L	U
3323	699437001	12/10/2024	Chromium-51	1.38E+00	8.48E+00	2.91E+01	pCi/L	U
3323	650998002	1/8/2024	Cobalt-57	-5.99E-02	7.67E-01	2.45E+00	pCi/L	U
3323	654193002	2/6/2024	Cobalt-57	-1.44E+00	8.81E-01	2.59E+00	pCi/L	U
3323	663093002	4/3/2024	Cobalt-57	1.53E+00	6.74E-01	2.34E+00	pCi/L	U
3323	665208002	5/1/2024	Cobalt-57	-2.11E-01	1.06E+00	3.44E+00	pCi/L	U
3323	669066002	5/28/2024	Cobalt-57	-7.56E-01	8.26E-01	2.38E+00	pCi/L	U
3323	672777002	6/25/2024	Cobalt-57	6.25E-01	9.52E-01	3.28E+00	pCi/L	U
3323	676806002	7/23/2024	Cobalt-57	1.52E+00	7.73E-01	2.73E+00	pCi/L	U
3323	681493003	8/20/2024	Cobalt-57	1.04E+00	1.03E+00	3.51E+00	pCi/L	U
3323	685846002	9/17/2024	Cobalt-57	9.61E-02	8.49E-01	2.74E+00	pCi/L	U
3323	690097002	10/15/2024	Cobalt-57	3.23E-01	3.98E-01	1.35E+00	pCi/L	U
3323	694915002	11/12/2024	Cobalt-57	-3.35E-01	9.24E-01	2.91E+00	pCi/L	U
3323	699437001	12/10/2024	Cobalt-57	-2.21E-01	8.53E-01	2.70E+00	pCi/L	U
3323	650998002	1/8/2024	Cobalt-58	0.00E+00	8.40E-01	2.70E+00	pCi/L	U
3323	654193002	2/6/2024	Cobalt-58	1.62E+00	1.63E+00	3.40E+00	pCi/L	U
3323	663093002	4/3/2024	Cobalt-58	-1.01E+00	8.80E-01	2.53E+00	pCi/L	U
3323	665208002	5/1/2024	Cobalt-58	5.28E-01	1.20E+00	4.06E+00	pCi/L	U
3323	669066002	5/28/2024	Cobalt-58	7.76E-01	9.71E-01	3.46E+00	pCi/L	U
3323	672777002	6/25/2024	Cobalt-58	1.02E-01	1.05E+00	3.56E+00	pCi/L	U
3323	676806002	7/23/2024	Cobalt-58	-6.24E-01	1.06E+00	3.14E+00	pCi/L	U
3323	681493003	8/20/2024	Cobalt-58	1.70E+00	1.13E+00	4.16E+00	pCi/L	U
3323	685846002	9/17/2024	Cobalt-58	3.86E-01	1.14E+00	3.76E+00	pCi/L	U
3323	690097002	10/15/2024	Cobalt-58	4.58E-01	7.41E-01	2.44E+00	pCi/L	U
3323	694915002	11/12/2024	Cobalt-58	-7.25E-01	8.72E-01	2.51E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	699437001	12/10/2024	Cobalt-58	-1.12E-01	1.30E+00	3.54E+00	pCi/L	U
3323	650998002	1/8/2024	Cobalt-60	-1.94E-01	7.62E-01	2.47E+00	pCi/L	U
3323	654193002	2/6/2024	Cobalt-60	-1.12E+00	9.74E-01	2.63E+00	pCi/L	U
3323	663093002	4/3/2024	Cobalt-60	3.69E-01	7.39E-01	2.56E+00	pCi/L	U
3323	665208002	5/1/2024	Cobalt-60	7.80E-01	1.21E+00	4.34E+00	pCi/L	U
3323	669066002	5/28/2024	Cobalt-60	3.56E-01	6.92E-01	2.44E+00	pCi/L	U
3323	672777002	6/25/2024	Cobalt-60	-2.28E-01	9.64E-01	3.05E+00	pCi/L	U
3323	676806002	7/23/2024	Cobalt-60	5.09E-01	1.21E+00	4.15E+00	pCi/L	U
3323	681493003	8/20/2024	Cobalt-60	1.84E+00	1.15E+00	4.51E+00	pCi/L	U
3323	685846002	9/17/2024	Cobalt-60	2.08E+00	1.02E+00	4.16E+00	pCi/L	U
3323	690097002	10/15/2024	Cobalt-60	-8.12E-01	6.62E-01	1.96E+00	pCi/L	U
3323	694915002	11/12/2024	Cobalt-60	3.07E-02	1.18E+00	3.94E+00	pCi/L	U
3323	699437001	12/10/2024	Cobalt-60	-8.26E-01	1.09E+00	3.15E+00	pCi/L	U
3323	650998002	1/8/2024	Iodine-131	-1.89E+00	2.08E+00	6.70E+00	pCi/L	U
3323	650998002	1/8/2024	Iodine-131	3.45E-01	2.81E-01	8.86E-01	pCi/L	U
3323	654193002	2/6/2024	Iodine-131	1.49E+00	1.40E+00	5.00E+00	pCi/L	U
3323	654193002	2/6/2024	Iodine-131	5.54E-02	2.33E-01	7.58E-01	pCi/L	U
3323	657413003	3/4/2024	Iodine-131	-2.95E-02			pCi/L	
3323	663093002	4/3/2024	Iodine-131	-1.46E+00	2.22E+00	7.21E+00	pCi/L	U
3323	663093002	4/3/2024	Iodine-131	1.52E-01	2.21E-01	7.12E-01	pCi/L	U
3323	665208002	5/1/2024	Iodine-131	4.06E-01	2.64E-01	8.32E-01	pCi/L	U
3323	669066002	5/28/2024	Iodine-131	1.38E-01	1.81E+00	5.68E+00	pCi/L	U
3323	669066002	5/28/2024	Iodine-131	-1.40E-01	2.02E-01	6.77E-01	pCi/L	U
3323	672777002	6/25/2024	Iodine-131	1.70E-01	2.42E-01	7.77E-01	pCi/L	U
3323	676806002	7/23/2024	Iodine-131	-6.22E-01	1.85E-01	7.32E-01	pCi/L	U
3323	676806002	7/23/2024	Iodine-131	1.52E+00	1.60E+00	5.69E+00	pCi/L	U
3323	681493003	8/20/2024	Iodine-131	3.26E+00	2.21E+00	8.12E+00	pCi/L	U
3323	681493003	8/20/2024	Iodine-131	2.92E-01	2.56E-01	8.25E-01	pCi/L	U
3323	685846002	9/17/2024	Iodine-131	1.97E+00	1.87E+00	6.68E+00	pCi/L	U
3323	685846002	9/17/2024	Iodine-131	1.28E-01	2.57E-01	8.23E-01	pCi/L	U
3323	690097002	10/15/2024	Iodine-131	2.81E-01	2.33E-01	7.49E-01	pCi/L	U
3323	690097002	10/15/2024	Iodine-131	-2.37E+00	1.80E+00	5.83E+00	pCi/L	U
3323	694915002	11/12/2024	Iodine-131	9.50E-02	2.48E-01	7.96E-01	pCi/L	U
3323	699437001	12/10/2024	Iodine-131	5.53E-02	3.84E-01	1.26E+00	pCi/L	U
3323	650998002	1/8/2024	Iron-59	7.75E-02	1.53E+00	5.20E+00	pCi/L	U
3323	654193002	2/6/2024	Iron-59	-4.56E-01	1.82E+00	5.84E+00	pCi/L	U
3323	663093002	4/3/2024	Iron-59	9.22E-01	1.63E+00	5.69E+00	pCi/L	U
3323	665208002	5/1/2024	Iron-59	-2.55E+00	1.87E+00	5.18E+00	pCi/L	U
3323	669066002	5/28/2024	Iron-59	1.36E+00	1.96E+00	6.86E+00	pCi/L	U
3323	672777002	6/25/2024	Iron-59	-1.48E-01	2.20E+00	6.98E+00	pCi/L	U
3323	676806002	7/23/2024	Iron-59	-6.49E-02	2.24E+00	7.44E+00	pCi/L	U
3323	681493003	8/20/2024	Iron-59	2.67E-01	1.98E+00	6.82E+00	pCi/L	U
3323	685846002	9/17/2024	Iron-59	-4.07E-01	1.36E+00	4.39E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	690097002	10/15/2024	Iron-59	-5.15E+00	2.52E+00	4.59E+00	pCi/L	U
3323	694915002	11/12/2024	Iron-59	-1.34E+00	1.68E+00	5.08E+00	pCi/L	U
3323	699437001	12/10/2024	Iron-59	-1.56E+00	1.76E+00	4.69E+00	pCi/L	U
3323	650998002	1/8/2024	Lanthanum-140	-1.11E+00	2.08E+00	6.49E+00	pCi/L	U
3323	654193002	2/6/2024	Lanthanum-140	-4.25E+00	1.64E+00	2.73E+00	pCi/L	U
3323	663093002	4/3/2024	Lanthanum-140	-5.51E-01	2.12E+00	6.69E+00	pCi/L	U
3323	665208002	5/1/2024	Lanthanum-140	-1.14E+00	1.40E+00	3.77E+00	pCi/L	U
3323	669066002	5/28/2024	Lanthanum-140	-7.96E-01	1.55E+00	4.79E+00	pCi/L	U
3323	672777002	6/25/2024	Lanthanum-140	-2.27E+00	1.92E+00	4.78E+00	pCi/L	U
3323	676806002	7/23/2024	Lanthanum-140	-1.35E-01	1.38E+00	4.37E+00	pCi/L	U
3323	681493003	8/20/2024	Lanthanum-140	-3.20E+00	1.88E+00	4.44E+00	pCi/L	U
3323	685846002	9/17/2024	Lanthanum-140	-5.25E-01	1.72E+00	5.41E+00	pCi/L	U
3323	690097002	10/15/2024	Lanthanum-140	-2.99E+00	2.12E+00	4.91E+00	pCi/L	U
3323	694915002	11/12/2024	Lanthanum-140	-3.09E+00	1.64E+00	3.59E+00	pCi/L	U
3323	699437001	12/10/2024	Lanthanum-140	-2.53E+00	1.97E+00	5.27E+00	pCi/L	U
3323	650998002	1/8/2024	Lead-210	-2.69E+02	2.00E+02	5.59E+02	pCi/L	U
3323	654193002	2/6/2024	Lead-210	9.80E+01	1.12E+02	1.82E+02	pCi/L	U
3323	663093002	4/3/2024	Lead-210	2.24E+01	1.91E+02	3.42E+02	pCi/L	U
3323	665208002	5/1/2024	Lead-210	-9.40E+01	1.79E+02	5.32E+02	pCi/L	U
3323	669066002	5/28/2024	Lead-210	-4.08E+01	3.71E+01	1.20E+02	pCi/L	U
3323	672777002	6/25/2024	Lead-210	3.58E+00	2.73E+02	5.06E+02	pCi/L	U
3323	676806002	7/23/2024	Lead-210	-1.72E+02	9.28E+01	2.58E+02	pCi/L	U
3323	681493003	8/20/2024	Lead-210	-4.77E+00	1.89E+02	5.99E+02	pCi/L	U
3323	685846002	9/17/2024	Lead-210	-5.22E+02	1.88E+02	5.70E+02	pCi/L	U
3323	690097002	10/15/2024	Lead-210	1.57E+00	1.61E+01	4.51E+01	pCi/L	U
3323	694915002	11/12/2024	Lead-210	3.34E+02	3.08E+02	5.23E+02	pCi/L	U
3323	699437001	12/10/2024	Lead-210	7.55E+01	2.48E+02	5.33E+02	pCi/L	U
3323	650998002	1/8/2024	Lead-212	7.12E-01	2.72E+00	6.60E+00	pCi/L	U
3323	654193002	2/6/2024	Lead-212	2.93E-01	2.83E+00	7.20E+00	pCi/L	U
3323	663093002	4/3/2024	Lead-212	-6.13E-01	2.35E+00	7.13E+00	pCi/L	U
3323	665208002	5/1/2024	Lead-212	3.11E+00	3.03E+00	8.07E+00	pCi/L	U
3323	669066002	5/28/2024	Lead-212	-3.45E+00	2.14E+00	6.88E+00	pCi/L	U
3323	672777002	6/25/2024	Lead-212	5.43E+00	5.34E+00	6.67E+00	pCi/L	U
3323	676806002	7/23/2024	Lead-212	3.81E+00	2.29E+00	6.63E+00	pCi/L	U
3323	681493003	8/20/2024	Lead-212	2.99E+00	3.86E+00	8.44E+00	pCi/L	U
3323	685846002	9/17/2024	Lead-212	5.49E+00	4.12E+00	7.69E+00	pCi/L	U
3323	690097002	10/15/2024	Lead-212	7.20E-01	2.22E+00	3.07E+00	pCi/L	U
3323	694915002	11/12/2024	Lead-212	-7.13E-01	2.43E+00	7.69E+00	pCi/L	U
3323	699437001	12/10/2024	Lead-212	-1.09E+00	2.18E+00	7.39E+00	pCi/L	U
3323	650998002	1/8/2024	Lead-214	-3.80E+00	2.42E+00	6.95E+00	pCi/L	U
3323	654193002	2/6/2024	Lead-214	3.36E+00	2.88E+00	9.63E+00	pCi/L	U
3323	663093002	4/3/2024	Lead-214	6.41E+00	4.53E+00	6.32E+00	pCi/L	UI
3323	665208002	5/1/2024	Lead-214	3.82E+00	3.13E+00	1.05E+01	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	669066002	5/28/2024	Lead-214	-4.49E+00	2.83E+00	7.75E+00	pCi/L	U
3323	672777002	6/25/2024	Lead-214	4.16E+00	3.17E+00	1.05E+01	pCi/L	U
3323	676806002	7/23/2024	Lead-214	9.38E-01	2.63E+00	8.54E+00	pCi/L	U
3323	681493003	8/20/2024	Lead-214	-4.36E+00	3.60E+00	1.06E+01	pCi/L	U
3323	685846002	9/17/2024	Lead-214	1.02E-01	2.59E+00	8.28E+00	pCi/L	U
3323	690097002	10/15/2024	Lead-214	-6.44E-01	1.88E+00	4.93E+00	pCi/L	U
3323	694915002	11/12/2024	Lead-214	-1.82E+00	2.56E+00	7.94E+00	pCi/L	U
3323	699437001	12/10/2024	Lead-214	1.42E+01	3.97E+00	1.03E+01	pCi/L	UI
3323	650998002	1/8/2024	Manganese-54	1.54E+00	1.00E+00	2.93E+00	pCi/L	U
3323	654193002	2/6/2024	Manganese-54	-7.96E-01	8.25E-01	2.51E+00	pCi/L	U
3323	663093002	4/3/2024	Manganese-54	-4.89E-01	8.20E-01	2.11E+00	pCi/L	U
3323	665208002	5/1/2024	Manganese-54	-5.18E-01	1.10E+00	3.38E+00	pCi/L	U
3323	669066002	5/28/2024	Manganese-54	-6.36E-01	9.14E-01	2.76E+00	pCi/L	U
3323	672777002	6/25/2024	Manganese-54	4.60E-01	7.06E-01	2.56E+00	pCi/L	U
3323	676806002	7/23/2024	Manganese-54	-6.14E-01	9.04E-01	2.88E+00	pCi/L	U
3323	681493003	8/20/2024	Manganese-54	1.20E-01	1.11E+00	3.63E+00	pCi/L	U
3323	685846002	9/17/2024	Manganese-54	-2.27E+00	1.05E+00	2.59E+00	pCi/L	U
3323	690097002	10/15/2024	Manganese-54	3.39E+00	1.10E+00	2.09E+00	pCi/L	UI
3323	694915002	11/12/2024	Manganese-54	-3.01E-02	1.03E+00	3.28E+00	pCi/L	U
3323	699437001	12/10/2024	Manganese-54	1.08E+00	9.36E-01	3.35E+00	pCi/L	U
3323	650998002	1/8/2024	Molybdenum-99	-5.82E+01	9.59E+01	2.94E+02	pCi/L	U
3323	654193002	2/6/2024	Molybdenum-99	-1.82E+01	3.26E+01	9.67E+01	pCi/L	U
3323	663093002	4/3/2024	Molybdenum-99	3.15E+02	1.66E+02	5.47E+02	pCi/L	U
3323	665208002	5/1/2024	Molybdenum-99	-1.32E+01	9.23E+01	2.97E+02	pCi/L	U
3323	669066002	5/28/2024	Molybdenum-99	1.16E+00	5.45E+01	1.81E+02	pCi/L	U
3323	672777002	6/25/2024	Molybdenum-99	-7.06E+01	1.32E+02	4.26E+02	pCi/L	U
3323	676806002	7/23/2024	Molybdenum-99	2.03E+01	5.60E+01	1.84E+02	pCi/L	U
3323	681493003	8/20/2024	Molybdenum-99	1.32E+01	5.73E+01	1.91E+02	pCi/L	U
3323	685846002	9/17/2024	Molybdenum-99	0.00E+00	3.70E+01	1.19E+02	pCi/L	U
3323	690097002	10/15/2024	Molybdenum-99	-1.38E+02	2.57E+02	8.03E+02	pCi/L	U
3323	694915002	11/12/2024	Molybdenum-99	4.05E+01	5.65E+01	1.95E+02	pCi/L	U
3323	699437001	12/10/2024	Molybdenum-99	7.57E+00	8.09E+01	2.63E+02	pCi/L	U
3323	650998002	1/8/2024	Niobium-95	1.56E-01	1.12E+00	3.16E+00	pCi/L	U
3323	654193002	2/6/2024	Niobium-95	-1.04E-02	8.78E-01	2.98E+00	pCi/L	U
3323	663093002	4/3/2024	Niobium-95	6.37E-01	8.49E-01	2.87E+00	pCi/L	U
3323	665208002	5/1/2024	Niobium-95	2.72E-01	1.16E+00	3.86E+00	pCi/L	U
3323	669066002	5/28/2024	Niobium-95	-2.27E-01	9.89E-01	3.19E+00	pCi/L	U
3323	672777002	6/25/2024	Niobium-95	7.72E-01	1.19E+00	4.22E+00	pCi/L	U
3323	676806002	7/23/2024	Niobium-95	3.96E+00	1.09E+00	2.47E+00	pCi/L	UI
3323	681493003	8/20/2024	Niobium-95	1.29E-01	1.06E+00	3.47E+00	pCi/L	U
3323	685846002	9/17/2024	Niobium-95	1.05E+00	9.20E-01	3.30E+00	pCi/L	U
3323	690097002	10/15/2024	Niobium-95	6.66E-01	7.49E-01	2.52E+00	pCi/L	U
3323	694915002	11/12/2024	Niobium-95	-7.20E-01	1.06E+00	3.18E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	699437001	12/10/2024	Niobium-95	5.26E-01	6.15E-01	2.10E+00	pCi/L	U
3323	650998002	1/8/2024	Potassium-40	-5.75E+00	1.39E+01	4.83E+01	pCi/L	U
3323	654193002	2/6/2024	Potassium-40	1.73E+00	1.95E+01	3.09E+01	pCi/L	U
3323	663093002	4/3/2024	Potassium-40	2.16E+01	2.13E+01	2.58E+01	pCi/L	U
3323	665208002	5/1/2024	Potassium-40	-1.84E+01	1.55E+01	4.66E+01	pCi/L	U
3323	669066002	5/28/2024	Potassium-40	2.94E+01	1.45E+01	3.07E+01	pCi/L	U
3323	672777002	6/25/2024	Potassium-40	-1.89E+01	1.63E+01	5.43E+01	pCi/L	U
3323	676806002	7/23/2024	Potassium-40	9.25E+00	1.34E+01	5.22E+01	pCi/L	U
3323	681493003	8/20/2024	Potassium-40	-3.17E+01	1.47E+01	4.29E+01	pCi/L	U
3323	685846002	9/17/2024	Potassium-40	3.60E+00	1.14E+01	4.31E+01	pCi/L	U
3323	690097002	10/15/2024	Potassium-40	-1.21E+01	1.32E+01	2.92E+01	pCi/L	U
3323	694915002	11/12/2024	Potassium-40	-1.00E+01	1.63E+01	5.00E+01	pCi/L	U
3323	699437001	12/10/2024	Potassium-40	3.12E+01	1.75E+01	3.17E+01	pCi/L	U
3323	650998002	1/8/2024	Radium-226	3.12E+01	4.02E+01	5.93E+01	pCi/L	U
3323	654193002	2/6/2024	Radium-226	9.04E+01	3.69E+01	5.74E+01	pCi/L	UI
3323	663093002	4/3/2024	Radium-226	1.34E+01	2.97E+01	4.54E+01	pCi/L	U
3323	665208002	5/1/2024	Radium-226	1.02E+01	4.98E+01	8.10E+01	pCi/L	U
3323	669066002	5/28/2024	Radium-226	2.29E+01	3.24E+01	5.01E+01	pCi/L	U
3323	672777002	6/25/2024	Radium-226	8.25E+01	5.18E+01	6.93E+01	pCi/L	UI
3323	676806002	7/23/2024	Radium-226	-2.00E+01	2.82E+01	9.55E+01	pCi/L	U
3323	681493003	8/20/2024	Radium-226	1.67E+01	4.69E+01	1.01E+02	pCi/L	U
3323	685846002	9/17/2024	Radium-226	3.13E+01	4.76E+01	1.01E+02	pCi/L	U
3323	690097002	10/15/2024	Radium-226	-7.17E+01	2.15E+01	5.93E+01	pCi/L	U
3323	694915002	11/12/2024	Radium-226	-5.25E+01	2.87E+01	9.41E+01	pCi/L	U
3323	699437001	12/10/2024	Radium-226	-2.76E+01	3.00E+01	1.01E+02	pCi/L	U
3323	650998002	1/8/2024	Radium-228	8.90E+00	6.47E+00	1.43E+01	pCi/L	U
3323	654193002	2/6/2024	Radium-228	4.10E+00	5.19E+00	1.88E+01	pCi/L	U
3323	663093002	4/3/2024	Radium-228	-5.85E+00	4.22E+00	1.11E+01	pCi/L	U
3323	665208002	5/1/2024	Radium-228	-8.02E+00	5.69E+00	1.68E+01	pCi/L	U
3323	669066002	5/28/2024	Radium-228	-3.77E+00	4.02E+00	1.14E+01	pCi/L	U
3323	672777002	6/25/2024	Radium-228	-1.86E-01	4.69E+00	1.52E+01	pCi/L	U
3323	676806002	7/23/2024	Radium-228	-4.95E+00	4.10E+00	1.23E+01	pCi/L	U
3323	681493003	8/20/2024	Radium-228	-1.36E+00	5.53E+00	1.78E+01	pCi/L	U
3323	685846002	9/17/2024	Radium-228	2.51E+00	4.29E+00	1.49E+01	pCi/L	U
3323	690097002	10/15/2024	Radium-228	3.68E+00	2.75E+00	9.86E+00	pCi/L	U
3323	694915002	11/12/2024	Radium-228	-4.21E+00	5.14E+00	1.48E+01	pCi/L	U
3323	699437001	12/10/2024	Radium-228	-4.20E+00	4.38E+00	1.40E+01	pCi/L	U
3323	650998002	1/8/2024	Ruthenium-103	1.43E+00	8.78E-01	3.18E+00	pCi/L	U
3323	654193002	2/6/2024	Ruthenium-103	-2.71E+00	1.10E+00	2.90E+00	pCi/L	U
3323	663093002	4/3/2024	Ruthenium-103	5.18E-02	9.63E-01	2.85E+00	pCi/L	U
3323	665208002	5/1/2024	Ruthenium-103	-1.47E+00	1.26E+00	3.89E+00	pCi/L	U
3323	669066002	5/28/2024	Ruthenium-103	-5.94E-02	9.86E-01	3.34E+00	pCi/L	U
3323	672777002	6/25/2024	Ruthenium-103	-6.30E-01	1.24E+00	3.82E+00	pCi/L	U

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Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	676806002	7/23/2024	Ruthenium-103	-5.93E-01	9.85E-01	3.07E+00	pCi/L	U
3323	681493003	8/20/2024	Ruthenium-103	9.91E-01	1.30E+00	4.55E+00	pCi/L	U
3323	685846002	9/17/2024	Ruthenium-103	-5.99E-01	1.06E+00	3.36E+00	pCi/L	U
3323	690097002	10/15/2024	Ruthenium-103	-1.52E+00	8.74E-01	2.37E+00	pCi/L	U
3323	694915002	11/12/2024	Ruthenium-103	8.14E-02	1.15E+00	3.81E+00	pCi/L	U
3323	699437001	12/10/2024	Ruthenium-103	-8.37E-01	1.06E+00	3.31E+00	pCi/L	U
3323	650998002	1/8/2024	Ruthenium-106	4.49E+00	7.55E+00	2.33E+01	pCi/L	U
3323	654193002	2/6/2024	Ruthenium-106	-1.94E+01	9.11E+00	2.32E+01	pCi/L	U
3323	663093002	4/3/2024	Ruthenium-106	1.11E+00	7.00E+00	2.29E+01	pCi/L	U
3323	665208002	5/1/2024	Ruthenium-106	-4.29E+00	9.12E+00	2.88E+01	pCi/L	U
3323	669066002	5/28/2024	Ruthenium-106	7.71E-01	7.21E+00	2.44E+01	pCi/L	U
3323	672777002	6/25/2024	Ruthenium-106	3.74E+01	1.39E+01	2.35E+01	pCi/L	UI
3323	676806002	7/23/2024	Ruthenium-106	8.30E+00	1.06E+01	2.68E+01	pCi/L	U
3323	681493003	8/20/2024	Ruthenium-106	-1.03E+00	1.04E+01	3.42E+01	pCi/L	U
3323	685846002	9/17/2024	Ruthenium-106	2.96E+00	8.55E+00	2.88E+01	pCi/L	U
3323	690097002	10/15/2024	Ruthenium-106	-1.78E+00	5.92E+00	1.91E+01	pCi/L	U
3323	694915002	11/12/2024	Ruthenium-106	-8.40E+00	9.77E+00	2.98E+01	pCi/L	U
3323	699437001	12/10/2024	Ruthenium-106	2.22E+00	8.50E+00	2.84E+01	pCi/L	U
3323	650998002	1/8/2024	Selenium-75	7.57E-01	1.11E+00	3.90E+00	pCi/L	U
3323	654193002	2/6/2024	Selenium-75	3.34E-01	1.35E+00	4.63E+00	pCi/L	U
3323	663093002	4/3/2024	Selenium-75	1.06E+00	1.03E+00	3.67E+00	pCi/L	U
3323	665208002	5/1/2024	Selenium-75	3.01E+00	2.46E+00	6.03E+00	pCi/L	U
3323	669066002	5/28/2024	Selenium-75	-5.94E-01	1.31E+00	4.03E+00	pCi/L	U
3323	672777002	6/25/2024	Selenium-75	-1.15E+00	1.50E+00	4.70E+00	pCi/L	U
3323	676806002	7/23/2024	Selenium-75	1.13E+00	1.09E+00	3.95E+00	pCi/L	U
3323	681493003	8/20/2024	Selenium-75	2.21E+00	1.50E+00	5.13E+00	pCi/L	U
3323	685846002	9/17/2024	Selenium-75	-1.67E-01	1.23E+00	4.19E+00	pCi/L	U
3323	690097002	10/15/2024	Selenium-75	-4.27E-01	7.29E-01	2.24E+00	pCi/L	U
3323	694915002	11/12/2024	Selenium-75	9.81E-01	1.30E+00	4.61E+00	pCi/L	U
3323	699437001	12/10/2024	Selenium-75	-6.79E-01	1.17E+00	3.86E+00	pCi/L	U
3323	650998002	1/8/2024	Silver-108m	-7.26E-02	7.13E-01	2.37E+00	pCi/L	U
3323	654193002	2/6/2024	Silver-108m	5.49E-01	8.29E-01	2.86E+00	pCi/L	U
3323	663093002	4/3/2024	Silver-108m	-7.01E-01	6.66E-01	2.09E+00	pCi/L	U
3323	665208002	5/1/2024	Silver-108m	-1.47E+00	1.21E+00	3.52E+00	pCi/L	U
3323	669066002	5/28/2024	Silver-108m	3.45E-01	8.24E-01	2.90E+00	pCi/L	U
3323	672777002	6/25/2024	Silver-108m	-7.30E-01	9.02E-01	2.71E+00	pCi/L	U
3323	676806002	7/23/2024	Silver-108m	5.30E-01	8.89E-01	3.06E+00	pCi/L	U
3323	681493003	8/20/2024	Silver-108m	1.67E+00	1.08E+00	3.95E+00	pCi/L	U
3323	685846002	9/17/2024	Silver-108m	-1.97E+00	1.02E+00	2.50E+00	pCi/L	U
3323	690097002	10/15/2024	Silver-108m	-1.20E-01	4.76E-01	1.59E+00	pCi/L	U
3323	694915002	11/12/2024	Silver-108m	6.23E-01	7.65E-01	2.49E+00	pCi/L	U
3323	699437001	12/10/2024	Silver-108m	-1.09E-01	8.98E-01	2.97E+00	pCi/L	U
3323	650998002	1/8/2024	Silver-110m	-4.25E-01	1.19E+00	3.69E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	654193002	2/6/2024	Silver-110m	4.08E-01	1.28E+00	4.42E+00	pCi/L	U
3323	663093002	4/3/2024	Silver-110m	6.13E-01	1.09E+00	3.83E+00	pCi/L	U
3323	665208002	5/1/2024	Silver-110m	9.76E-01	1.38E+00	4.79E+00	pCi/L	U
3323	669066002	5/28/2024	Silver-110m	-5.54E-01	1.25E+00	3.85E+00	pCi/L	U
3323	672777002	6/25/2024	Silver-110m	-2.29E-01	1.24E+00	4.08E+00	pCi/L	U
3323	676806002	7/23/2024	Silver-110m	1.88E+00	1.18E+00	4.59E+00	pCi/L	U
3323	681493003	8/20/2024	Silver-110m	1.68E+00	1.38E+00	5.02E+00	pCi/L	U
3323	685846002	9/17/2024	Silver-110m	-8.33E-01	1.49E+00	4.49E+00	pCi/L	U
3323	690097002	10/15/2024	Silver-110m	-1.56E+00	1.06E+00	2.78E+00	pCi/L	U
3323	694915002	11/12/2024	Silver-110m	-4.49E-01	1.23E+00	3.74E+00	pCi/L	U
3323	699437001	12/10/2024	Silver-110m	1.18E+00	1.27E+00	4.47E+00	pCi/L	U
3323	650998002	1/8/2024	Tellurium-132	-3.61E+00	9.29E+00	2.84E+01	pCi/L	U
3323	654193002	2/6/2024	Tellurium-132	-1.91E+00	3.03E+00	8.93E+00	pCi/L	U
3323	663093002	4/3/2024	Tellurium-132	2.10E+01	1.30E+01	4.34E+01	pCi/L	U
3323	665208002	5/1/2024	Tellurium-132	1.20E+01	7.95E+00	2.70E+01	pCi/L	U
3323	669066002	5/28/2024	Tellurium-132	-1.00E+00	4.74E+00	1.50E+01	pCi/L	U
3323	672777002	6/25/2024	Tellurium-132	-1.44E+01	1.09E+01	3.35E+01	pCi/L	U
3323	676806002	7/23/2024	Tellurium-132	-2.71E+00	3.59E+00	1.19E+01	pCi/L	U
3323	681493003	8/20/2024	Tellurium-132	8.77E+00	6.04E+00	2.06E+01	pCi/L	U
3323	685846002	9/17/2024	Tellurium-132	-6.64E+00	4.95E+00	1.41E+01	pCi/L	U
3323	690097002	10/15/2024	Tellurium-132	-5.25E-02	1.28E+01	4.07E+01	pCi/L	U
3323	694915002	11/12/2024	Tellurium-132	3.80E+00	5.30E+00	1.72E+01	pCi/L	U
3323	699437001	12/10/2024	Tellurium-132	1.01E+00	6.11E+00	1.92E+01	pCi/L	U
3323	650998002	1/8/2024	Thallium-208	1.10E+00	2.31E+00	2.68E+00	pCi/L	U
3323	654193002	2/6/2024	Thallium-208	1.56E+00	1.37E+00	4.55E+00	pCi/L	U
3323	663093002	4/3/2024	Thallium-208	1.79E+00	1.79E+00	2.36E+00	pCi/L	U
3323	665208002	5/1/2024	Thallium-208	-2.19E+00	1.41E+00	3.97E+00	pCi/L	U
3323	669066002	5/28/2024	Thallium-208	4.88E-01	1.22E+00	4.17E+00	pCi/L	U
3323	672777002	6/25/2024	Thallium-208	1.05E+00	2.09E+00	4.12E+00	pCi/L	U
3323	676806002	7/23/2024	Thallium-208	4.59E+00	1.59E+00	2.20E+00	pCi/L	UI
3323	681493003	8/20/2024	Thallium-208	-1.24E+00	1.32E+00	3.85E+00	pCi/L	U
3323	685846002	9/17/2024	Thallium-208	1.69E+00	1.35E+00	3.16E+00	pCi/L	U
3323	690097002	10/15/2024	Thallium-208	5.73E-01	1.54E+00	2.10E+00	pCi/L	U
3323	694915002	11/12/2024	Thallium-208	8.28E-01	1.25E+00	4.08E+00	pCi/L	U
3323	699437001	12/10/2024	Thallium-208	2.91E+00	1.63E+00	3.07E+00	pCi/L	U
3323	650998002	1/8/2024	Thorium-228	7.12E-01	2.72E+00	6.60E+00	pCi/L	U
3323	654193002	2/6/2024	Thorium-228	2.93E-01	2.83E+00	7.20E+00	pCi/L	U
3323	663093002	4/3/2024	Thorium-228	-6.13E-01	2.35E+00	7.13E+00	pCi/L	U
3323	665208002	5/1/2024	Thorium-228	3.11E+00	3.03E+00	8.07E+00	pCi/L	U
3323	669066002	5/28/2024	Thorium-228	-3.45E+00	2.14E+00	6.88E+00	pCi/L	U
3323	672777002	6/25/2024	Thorium-228	5.43E+00	5.34E+00	6.67E+00	pCi/L	U
3323	676806002	7/23/2024	Thorium-228	3.81E+00	2.29E+00	6.63E+00	pCi/L	U
3323	681493003	8/20/2024	Thorium-228	2.99E+00	3.86E+00	8.44E+00	pCi/L	U

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	685846002	9/17/2024	Thorium-228	5.49E+00	4.12E+00	7.69E+00	pCi/L	U
3323	690097002	10/15/2024	Thorium-228	7.20E-01	2.22E+00	3.07E+00	pCi/L	U
3323	694915002	11/12/2024	Thorium-228	-7.13E-01	2.43E+00	7.69E+00	pCi/L	U
3323	699437001	12/10/2024	Thorium-228	-1.09E+00	2.18E+00	7.39E+00	pCi/L	U
3323	650998002	1/8/2024	Thorium-230	-2.53E+02	3.90E+02	1.25E+03	pCi/L	U
3323	654193002	2/6/2024	Thorium-230	9.59E+02	4.95E+02	1.02E+03	pCi/L	U
3323	663093002	4/3/2024	Thorium-230	1.27E+03	6.15E+02	8.38E+02	pCi/L	UI
3323	665208002	5/1/2024	Thorium-230	1.35E+03	1.19E+03	1.44E+03	pCi/L	U
3323	669066002	5/28/2024	Thorium-230	8.78E+01	2.42E+02	8.30E+02	pCi/L	U
3323	672777002	6/25/2024	Thorium-230	1.79E+03	6.95E+02	1.30E+03	pCi/L	UI
3323	676806002	7/23/2024	Thorium-230	9.46E+02	2.95E+02	1.10E+03	pCi/L	U
3323	681493003	8/20/2024	Thorium-230	1.30E+03	6.68E+02	1.37E+03	pCi/L	U
3323	685846002	9/17/2024	Thorium-230	2.04E+03	8.58E+02	1.41E+03	pCi/L	UI
3323	690097002	10/15/2024	Thorium-230	3.05E+02	1.05E+02	2.93E+02	pCi/L	UI
3323	694915002	11/12/2024	Thorium-230	9.67E+02	7.12E+02	1.36E+03	pCi/L	U
3323	699437001	12/10/2024	Thorium-230	-5.11E+02	4.45E+02	1.24E+03	pCi/L	U
3323	650998002	1/8/2024	Thorium-232	8.15E+02	9.62E+02	2.07E+03	pCi/L	U
3323	654193002	2/6/2024	Thorium-232	2.81E+01	6.90E+02	1.64E+03	pCi/L	U
3323	663093002	4/3/2024	Thorium-232	2.48E+03	1.07E+03	1.44E+03	pCi/L	UI
3323	665208002	5/1/2024	Thorium-232	-1.43E+03	9.38E+02	2.73E+03	pCi/L	U
3323	669066002	5/28/2024	Thorium-232	-1.27E+03	4.38E+02	1.31E+03	pCi/L	U
3323	672777002	6/25/2024	Thorium-232	3.97E+02	1.26E+03	2.65E+03	pCi/L	U
3323	676806002	7/23/2024	Thorium-232	4.74E+02	8.40E+02	1.33E+03	pCi/L	U
3323	681493003	8/20/2024	Thorium-232	-7.05E+02	8.83E+02	2.73E+03	pCi/L	U
3323	685846002	9/17/2024	Thorium-232	1.20E+03	1.36E+03	2.41E+03	pCi/L	U
3323	690097002	10/15/2024	Thorium-232	-1.58E+03	2.94E+02	8.10E+02	pCi/L	U
3323	694915002	11/12/2024	Thorium-232	-7.42E+02	8.98E+02	2.80E+03	pCi/L	U
3323	699437001	12/10/2024	Thorium-232	-7.05E+02	9.09E+02	2.84E+03	pCi/L	U
3323	665208002	5/1/2024	Thorium-234	-6.38E+01	6.70E+01	2.01E+02	pCi/L	U
3323	672777002	6/25/2024	Thorium-234	2.79E+01	8.82E+01	1.55E+02	pCi/L	U
3323	694915002	11/12/2024	Thorium-234	-4.82E+01	6.49E+01	2.03E+02	pCi/L	U
3323	699437001	12/10/2024	Thorium-234	-4.20E+01	6.58E+01	2.07E+02	pCi/L	U
3323	650998002	1/8/2024	Tritium	1.92E+01	1.02E+02	3.33E+02	pCi/L	U
3323	654193002	2/6/2024	Tritium	6.18E+01	7.38E+01	2.22E+02	pCi/L	U
3323	657413003	3/4/2024	Tritium	7.11E+01			pCi/L	
3323	663093002	4/3/2024	Tritium	5.52E+01	1.01E+02	3.23E+02	pCi/L	U
3323	665208002	5/1/2024	Tritium	-8.05E+00	1.00E+02	3.31E+02	pCi/L	U
3323	669066002	5/28/2024	Tritium	3.47E+01	9.51E+01	3.06E+02	pCi/L	U
3323	672777002	6/25/2024	Tritium	5.51E+02	1.13E+02	1.95E+02	pCi/L	
3323	676806002	7/23/2024	Tritium	7.09E+02	2.92E+02	3.97E+02	pCi/L	
3323	681493003	8/20/2024	Tritium	6.17E+02	1.36E+02	3.65E+02	pCi/L	
3323	685846002	9/17/2024	Tritium	2.39E+02	9.16E+01	2.67E+02	pCi/L	U
3323	690097002	10/15/2024	Tritium	5.42E+02	2.29E+02	2.64E+02	pCi/L	

Table 16: Complete REMP Results – Drinking Water (pCi/L)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
3323	690097002	10/15/2024	Tritium	3.60E+02	1.07E+02	3.06E+02	pCi/L	M
3323	694915002	11/12/2024	Tritium	4.39E+02	1.21E+02	3.45E+02	pCi/L	
3323	699437001	12/10/2024	Tritium	4.78E+02	9.80E+01	2.64E+02	pCi/L	
3323	650998002	1/8/2024	Uranium-234	5.97E+03	4.97E+03	7.89E+03	pCi/L	U
3323	654193002	2/6/2024	Uranium-234	4.29E+03	2.89E+03	4.54E+03	pCi/L	U
3323	663093002	4/3/2024	Uranium-234	9.35E+02	1.91E+03	6.48E+03	pCi/L	U
3323	665208002	5/1/2024	Uranium-234	2.14E+02	3.37E+03	1.14E+04	pCi/L	U
3323	669066002	5/28/2024	Uranium-234	-2.01E+03	9.91E+02	2.87E+03	pCi/L	U
3323	672777002	6/25/2024	Uranium-234	-1.57E+03	3.01E+03	9.59E+03	pCi/L	U
3323	676806002	7/23/2024	Uranium-234	1.57E+03	1.50E+03	5.22E+03	pCi/L	U
3323	681493003	8/20/2024	Uranium-234	1.66E+03	3.01E+03	1.04E+04	pCi/L	U
3323	685846002	9/17/2024	Uranium-234	7.80E+03	5.50E+03	9.56E+03	pCi/L	U
3323	690097002	10/15/2024	Uranium-234	6.58E+02	7.28E+02	9.86E+02	pCi/L	U
3323	694915002	11/12/2024	Uranium-234	-2.84E+03	3.48E+03	9.94E+03	pCi/L	U
3323	699437001	12/10/2024	Uranium-234	2.43E+03	3.24E+03	1.04E+04	pCi/L	U
3323	650998002	1/8/2024	Zinc-65	-1.05E+00	1.80E+00	5.78E+00	pCi/L	U
3323	654193002	2/6/2024	Zinc-65	-2.63E+00	2.15E+00	6.16E+00	pCi/L	U
3323	663093002	4/3/2024	Zinc-65	1.98E+00	1.67E+00	5.62E+00	pCi/L	U
3323	665208002	5/1/2024	Zinc-65	3.01E+00	2.15E+00	8.30E+00	pCi/L	U
3323	669066002	5/28/2024	Zinc-65	-1.32E+00	1.94E+00	5.61E+00	pCi/L	U
3323	672777002	6/25/2024	Zinc-65	-3.92E-01	2.26E+00	7.34E+00	pCi/L	U
3323	676806002	7/23/2024	Zinc-65	1.42E-01	1.72E+00	5.80E+00	pCi/L	U
3323	681493003	8/20/2024	Zinc-65	-2.34E+00	2.02E+00	5.88E+00	pCi/L	U
3323	685846002	9/17/2024	Zinc-65	5.98E-01	1.89E+00	6.23E+00	pCi/L	U
3323	690097002	10/15/2024	Zinc-65	1.58E+00	1.45E+00	5.13E+00	pCi/L	U
3323	694915002	11/12/2024	Zinc-65	-1.75E-01	2.14E+00	7.08E+00	pCi/L	U
3323	699437001	12/10/2024	Zinc-65	1.74E-01	2.00E+00	6.82E+00	pCi/L	U
3323	650998002	1/8/2024	Zirconium-95	-3.38E+00	1.62E+00	4.32E+00	pCi/L	U
3323	654193002	2/6/2024	Zirconium-95	-5.23E-01	1.79E+00	5.96E+00	pCi/L	U
3323	663093002	4/3/2024	Zirconium-95	-2.89E-02	1.33E+00	4.25E+00	pCi/L	U
3323	665208002	5/1/2024	Zirconium-95	1.46E+00	1.90E+00	6.64E+00	pCi/L	U
3323	669066002	5/28/2024	Zirconium-95	-6.02E-01	1.54E+00	4.85E+00	pCi/L	U
3323	672777002	6/25/2024	Zirconium-95	-4.92E-01	1.81E+00	5.97E+00	pCi/L	U
3323	676806002	7/23/2024	Zirconium-95	-1.59E-01	1.25E+00	3.43E+00	pCi/L	U
3323	681493003	8/20/2024	Zirconium-95	-1.21E+00	2.01E+00	6.13E+00	pCi/L	U
3323	685846002	9/17/2024	Zirconium-95	1.04E-01	1.49E+00	4.83E+00	pCi/L	U
3323	690097002	10/15/2024	Zirconium-95	2.48E-01	1.29E+00	4.20E+00	pCi/L	U
3323	694915002	11/12/2024	Zirconium-95	1.22E+00	1.94E+00	6.61E+00	pCi/L	U
3323	699437001	12/10/2024	Zirconium-95	-3.43E-01	1.69E+00	5.32E+00	pCi/L	U
2140	679647003	6/25/2024	Tritium	2.31E+02	9.28E+01	2.62E+02	pCi/L	U
2141	679647002	6/25/2024	Tritium	4.07E+02	1.47E+02	4.18E+02	pCi/L	U
2142	679647001	6/24/2024	Tritium	-1.95E+01	8.20E+01	2.74E+02	pCi/L	U

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Table 17: Complete REMP Results – Shoreline Sediment (pCi/kg)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2250	654191003	2/6/2024	Actinium-228	6.32E+02	3.03E+02	6.14E+02	pCi/kg	UI
2250	654191003	2/6/2024	Americium-241	3.52E+02	1.45E+02	5.67E+02	pCi/kg	U
2250	654191003	2/6/2024	Antimony-124	6.50E+01	1.06E+02	3.89E+02	pCi/kg	U
2250	654191003	2/6/2024	Antimony-125	1.46E+02	9.55E+01	3.66E+02	pCi/kg	U
2250	654191003	2/6/2024	Barium-140	-6.22E+02	6.48E+02	1.97E+03	pCi/kg	U
2250	654191003	2/6/2024	Beryllium-7	7.46E+02	4.87E+02	1.52E+03	pCi/kg	U
2250	654191003	2/6/2024	Bismuth-214	8.80E+02	1.81E+02	2.80E+02	pCi/kg	
2250	654191003	2/6/2024	Cerium-141	-3.36E+01	9.06E+01	2.96E+02	pCi/kg	U
2250	654191003	2/6/2024	Cerium-144	-3.82E+01	2.12E+02	7.03E+02	pCi/kg	U
2250	654191003	2/6/2024	Cesium-134	9.76E+00	3.73E+01	1.26E+02	pCi/kg	U
2250	654191003	2/6/2024	Cesium-137	5.65E+01	5.86E+01	1.18E+02	pCi/kg	U
2250	654191003	2/6/2024	Chromium-51	6.34E+02	5.65E+02	2.11E+03	pCi/kg	U
2250	654191003	2/6/2024	Cobalt-57	1.43E+01	2.58E+01	8.98E+01	pCi/kg	U
2250	654191003	2/6/2024	Cobalt-58	1.31E+02	9.92E+01	1.62E+02	pCi/kg	U
2250	654191003	2/6/2024	Cobalt-60	6.68E+01	3.86E+01	1.61E+02	pCi/kg	U
2250	654191003	2/6/2024	Iodine-131	-5.90E+01	3.59E+02	1.23E+03	pCi/kg	U
2250	654191003	2/6/2024	Iron-59	-2.34E+01	1.13E+02	3.75E+02	pCi/kg	U
2250	654191003	2/6/2024	Lanthanum-140	-3.59E+02	2.39E+02	5.80E+02	pCi/kg	U
2250	654191003	2/6/2024	Lead-210	1.17E+04	7.67E+03	1.23E+04	pCi/kg	U
2250	654191003	2/6/2024	Lead-212	1.22E+03	1.34E+02	2.11E+02	pCi/kg	
2250	654191003	2/6/2024	Lead-214	1.07E+03	1.88E+02	2.85E+02	pCi/kg	
2250	654191003	2/6/2024	Manganese-54	1.12E+01	5.23E+01	1.73E+02	pCi/kg	U
2250	654191003	2/6/2024	Molybdenum-99	-1.92E+05	4.09E+05	0.00E+00	pCi/kg	U
2250	654191003	2/6/2024	Niobium-95	1.49E+02	4.97E+01	1.65E+02	pCi/kg	U
2250	654191003	2/6/2024	Potassium-40	5.79E+03	1.00E+03	1.04E+03	pCi/kg	
2250	654191003	2/6/2024	Radium-226	1.07E+03	1.88E+02	2.85E+02	pCi/kg	
2250	654191003	2/6/2024	Radium-228	6.32E+02	3.03E+02	6.14E+02	pCi/kg	UI
2250	654191003	2/6/2024	Ruthenium-103	3.51E+01	5.96E+01	2.12E+02	pCi/kg	U
2250	654191003	2/6/2024	Ruthenium-106	-3.76E+02	3.58E+02	1.04E+03	pCi/kg	U
2250	654191003	2/6/2024	Selenium-75	-2.36E+01	5.64E+01	1.75E+02	pCi/kg	U
2250	654191003	2/6/2024	Silver-108m	3.34E+01	5.06E+01	1.37E+02	pCi/kg	U
2250	654191003	2/6/2024	Silver-110m	-5.00E+01	4.74E+01	1.26E+02	pCi/kg	U
2250	654191003	2/6/2024	Tellurium-132	6.38E+03	1.31E+04	4.38E+04	pCi/kg	U
2250	654191003	2/6/2024	Thallium-208	3.06E+02	1.07E+02	1.40E+02	pCi/kg	
2250	654191003	2/6/2024	Thorium-228	1.22E+03	1.34E+02	2.11E+02	pCi/kg	
2250	654191003	2/6/2024	Thorium-230	1.07E+03	1.88E+02	2.85E+02	pCi/kg	
2250	654191003	2/6/2024	Thorium-232	6.32E+02	3.03E+02	6.14E+02	pCi/kg	
2250	654191003	2/6/2024	Thorium-234	6.03E+02	1.34E+03	4.78E+03	pCi/kg	U
2250	654191003	2/6/2024	Uranium-234	1.07E+03	1.88E+02	2.85E+02	pCi/kg	
2250	654191003	2/6/2024	Zinc-65	5.52E+01	9.51E+01	3.13E+02	pCi/kg	U
2250	654191003	2/6/2024	Zirconium-95	-5.34E+01	9.03E+01	2.75E+02	pCi/kg	U
2254	654191002	2/6/2024	Actinium-228	1.31E+03	2.42E+02	3.59E+02	pCi/kg	
2254	654191002	2/6/2024	Americium-241	-3.71E+01	1.51E+02	5.31E+02	pCi/kg	U

Table 17: Complete REMP Results – Shoreline Sediment (pCi/kg)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2254	654191002	2/6/2024	Antimony-124	2.24E+01	7.73E+01	2.60E+02	pCi/kg	U
2254	654191002	2/6/2024	Antimony-125	2.34E+01	7.23E+01	2.26E+02	pCi/kg	U
2254	654191002	2/6/2024	Barium-140	-5.64E+02	3.18E+02	9.08E+02	pCi/kg	U
2254	654191002	2/6/2024	Beryllium-7	1.26E+03	4.93E+02	7.71E+02	pCi/kg	UI
2254	654191002	2/6/2024	Bismuth-214	7.97E+02	1.36E+02	1.96E+02	pCi/kg	
2254	654191002	2/6/2024	Cerium-141	-1.40E+00	6.46E+01	2.10E+02	pCi/kg	U
2254	654191002	2/6/2024	Cerium-144	-9.47E+01	1.36E+02	4.27E+02	pCi/kg	U
2254	654191002	2/6/2024	Cesium-134	5.22E+01	3.06E+01	1.15E+02	pCi/kg	U
2254	654191002	2/6/2024	Cesium-137	5.62E+00	2.79E+01	9.31E+01	pCi/kg	U
2254	654191002	2/6/2024	Chromium-51	-2.90E+02	3.65E+02	1.16E+03	pCi/kg	U
2254	654191002	2/6/2024	Cobalt-57	-3.81E+00	2.06E+01	6.77E+01	pCi/kg	U
2254	654191002	2/6/2024	Cobalt-58	-2.48E+01	2.94E+01	9.30E+01	pCi/kg	U
2254	654191002	2/6/2024	Cobalt-60	3.64E+00	2.84E+01	9.58E+01	pCi/kg	U
2254	654191002	2/6/2024	Iodine-131	-3.39E+01	2.67E+02	8.66E+02	pCi/kg	U
2254	654191002	2/6/2024	Iron-59	1.89E+01	5.93E+01	1.85E+02	pCi/kg	U
2254	654191002	2/6/2024	Lanthanum-140	6.86E+01	1.19E+02	4.18E+02	pCi/kg	U
2254	654191002	2/6/2024	Lead-210	1.18E+04	5.53E+03	2.18E+04	pCi/kg	U
2254	654191002	2/6/2024	Lead-212	1.17E+03	9.45E+01	1.45E+02	pCi/kg	
2254	654191002	2/6/2024	Lead-214	8.84E+02	1.16E+02	1.40E+02	pCi/kg	
2254	654191002	2/6/2024	Manganese-54	-6.69E+00	2.44E+01	8.06E+01	pCi/kg	U
2254	654191002	2/6/2024	Molybdenum-99	1.71E+05	2.08E+05	0.00E+00	pCi/kg	UI
2254	654191002	2/6/2024	Niobium-95	6.54E+01	3.56E+01	1.34E+02	pCi/kg	U
2254	654191002	2/6/2024	Potassium-40	4.23E+03	5.91E+02	6.43E+02	pCi/kg	UI
2254	654191002	2/6/2024	Radium-226	8.84E+02	1.16E+02	1.40E+02	pCi/kg	
2254	654191002	2/6/2024	Radium-228	1.31E+03	2.42E+02	3.59E+02	pCi/kg	
2254	654191002	2/6/2024	Ruthenium-103	-3.41E+01	3.39E+01	1.07E+02	pCi/kg	U
2254	654191002	2/6/2024	Ruthenium-106	1.75E+02	1.65E+02	6.02E+02	pCi/kg	U
2254	654191002	2/6/2024	Selenium-75	-6.14E+01	4.04E+01	1.10E+02	pCi/kg	U
2254	654191002	2/6/2024	Silver-108m	-4.01E+01	2.03E+01	4.88E+01	pCi/kg	U
2254	654191002	2/6/2024	Silver-110m	-2.22E+01	3.89E+01	1.25E+02	pCi/kg	U
2254	654191002	2/6/2024	Tellurium-132	-1.41E+04	8.32E+03	2.62E+04	pCi/kg	U
2254	654191002	2/6/2024	Thallium-208	3.68E+02	6.22E+01	7.04E+01	pCi/kg	
2254	654191002	2/6/2024	Thorium-228	1.17E+03	9.45E+01	1.45E+02	pCi/kg	
2254	654191002	2/6/2024	Thorium-230	8.84E+02	1.16E+02	1.40E+02	pCi/kg	
2254	654191002	2/6/2024	Thorium-232	1.31E+03	2.42E+02	3.59E+02	pCi/kg	
2254	654191002	2/6/2024	Thorium-234	2.04E+03	1.22E+03	4.54E+03	pCi/kg	U
2254	654191002	2/6/2024	Uranium-234	8.84E+02	1.16E+02	1.40E+02	pCi/kg	
2254	654191002	2/6/2024	Zinc-65	-3.34E+00	7.94E+01	2.22E+02	pCi/kg	U
2254	654191002	2/6/2024	Zirconium-95	-2.05E+01	5.45E+01	1.55E+02	pCi/kg	U
2255	654191001	2/6/2024	Actinium-228	7.04E+02	1.02E+02	1.62E+02	pCi/kg	
2255	654191001	2/6/2024	Americium-241	8.55E+00	4.81E+01	1.76E+02	pCi/kg	U
2255	654191001	2/6/2024	Antimony-124	-1.24E+00	2.80E+01	9.29E+01	pCi/kg	U
2255	654191001	2/6/2024	Antimony-125	3.80E+01	3.08E+01	1.12E+02	pCi/kg	U
2255	654191001	2/6/2024	Barium-140	1.34E+02	2.89E+02	5.84E+02	pCi/kg	U
2255	654191001	2/6/2024	Beryllium-7	-1.07E+01	1.29E+02	4.34E+02	pCi/kg	U
2255	654191001	2/6/2024	Bismuth-214	6.98E+02	6.09E+01	7.39E+01	pCi/kg	

Table 17: Complete REMP Results – Shoreline Sediment (pCi/kg)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2255	654191001	2/6/2024	Cerium-141	-2.68E+01	2.44E+01	7.26E+01	pCi/kg	U
2255	654191001	2/6/2024	Cerium-144	9.74E-01	5.64E+01	1.88E+02	pCi/kg	U
2255	654191001	2/6/2024	Cesium-134	-1.62E+01	1.41E+01	4.49E+01	pCi/kg	U
2255	654191001	2/6/2024	Cesium-137	1.87E+01	1.31E+01	4.69E+01	pCi/kg	U
2255	654191001	2/6/2024	Chromium-51	5.76E+00	1.53E+02	5.39E+02	pCi/kg	U
2255	654191001	2/6/2024	Cobalt-57	4.50E+00	6.76E+00	2.40E+01	pCi/kg	U
2255	654191001	2/6/2024	Cobalt-58	1.04E+01	1.46E+01	4.75E+01	pCi/kg	U
2255	654191001	2/6/2024	Cobalt-60	-4.55E+00	1.32E+01	4.09E+01	pCi/kg	U
2255	654191001	2/6/2024	Iodine-131	-7.70E+01	9.96E+01	3.30E+02	pCi/kg	U
2255	654191001	2/6/2024	Iron-59	-2.32E+01	2.61E+01	7.73E+01	pCi/kg	U
2255	654191001	2/6/2024	Lanthanum-140	3.35E+01	6.99E+01	2.46E+02	pCi/kg	U
2255	654191001	2/6/2024	Lead-210	-2.36E+02	1.32E+03	4.66E+03	pCi/kg	U
2255	654191001	2/6/2024	Lead-212	7.70E+02	4.30E+01	4.95E+01	pCi/kg	
2255	654191001	2/6/2024	Lead-214	8.87E+02	7.31E+01	7.08E+01	pCi/kg	
2255	654191001	2/6/2024	Manganese-54	1.16E+01	1.22E+01	4.44E+01	pCi/kg	U
2255	654191001	2/6/2024	Molybdenum-99	3.84E+05	3.47E+05	0.00E+00	pCi/kg	UI
2255	654191001	2/6/2024	Niobium-95	1.24E+01	1.86E+01	5.65E+01	pCi/kg	U
2255	654191001	2/6/2024	Potassium-40	3.74E+03	3.46E+02	3.51E+02	pCi/kg	
2255	654191001	2/6/2024	Radium-226	8.87E+02	7.31E+01	7.08E+01	pCi/kg	
2255	654191001	2/6/2024	Radium-228	7.04E+02	1.02E+02	1.62E+02	pCi/kg	
2255	654191001	2/6/2024	Ruthenium-103	1.45E-01	1.49E+01	5.02E+01	pCi/kg	U
2255	654191001	2/6/2024	Ruthenium-106	-2.39E+01	1.01E+02	3.25E+02	pCi/kg	U
2255	654191001	2/6/2024	Selenium-75	1.58E+01	1.63E+01	5.43E+01	pCi/kg	U
2255	654191001	2/6/2024	Silver-108m	5.63E+00	1.03E+01	3.61E+01	pCi/kg	U
2255	654191001	2/6/2024	Silver-110m	-1.87E+01	1.49E+01	4.50E+01	pCi/kg	U
2255	654191001	2/6/2024	Tellurium-132	6.35E+03	5.97E+03	1.26E+04	pCi/kg	U
2255	654191001	2/6/2024	Thallium-208	2.09E+02	2.36E+01	2.83E+01	pCi/kg	
2255	654191001	2/6/2024	Thorium-228	7.70E+02	4.30E+01	4.95E+01	pCi/kg	
2255	654191001	2/6/2024	Thorium-230	8.87E+02	7.31E+01	7.08E+01	pCi/kg	
2255	654191001	2/6/2024	Thorium-232	7.04E+02	1.02E+02	1.62E+02	pCi/kg	
2255	654191001	2/6/2024	Thorium-234	6.16E+00	4.50E+02	1.56E+03	pCi/kg	U
2255	654191001	2/6/2024	Uranium-234	8.87E+02	7.31E+01	7.08E+01	pCi/kg	
2255	654191001	2/6/2024	Zinc-65	-1.27E+01	2.69E+01	7.27E+01	pCi/kg	U
2255	654191001	2/6/2024	Zirconium-95	1.45E+00	2.44E+01	7.88E+01	pCi/kg	U
2250	681491003	8/20/2024	Actinium-228	1.94E+03	2.17E+02	2.56E+02	pCi/kg	
2250	681491003	8/20/2024	Americium-241	5.27E+00	9.79E+01	3.68E+02	pCi/kg	U
2250	681491003	8/20/2024	Antimony-124	1.12E+02	7.10E+01	2.87E+02	pCi/kg	U
2250	681491003	8/20/2024	Antimony-125	2.24E+01	5.66E+01	2.02E+02	pCi/kg	U
2250	681491003	8/20/2024	Barium-140	2.74E+02	3.36E+02	1.22E+03	pCi/kg	U
2250	681491003	8/20/2024	Beryllium-7	1.54E+02	2.52E+02	8.69E+02	pCi/kg	U
2250	681491003	8/20/2024	Bismuth-214	1.44E+03	1.45E+02	1.71E+02	pCi/kg	
2250	681491003	8/20/2024	Cerium-141	-4.44E+01	5.13E+01	1.72E+02	pCi/kg	U
2250	681491003	8/20/2024	Cerium-144	-1.29E+02	1.19E+02	4.01E+02	pCi/kg	U
2250	681491003	8/20/2024	Cesium-134	2.42E+01	2.98E+01	1.01E+02	pCi/kg	U
2250	681491003	8/20/2024	Cesium-137	2.04E+01	2.51E+01	8.87E+01	pCi/kg	U
2250	681491003	8/20/2024	Chromium-51	-5.79E+02	3.11E+02	9.94E+02	pCi/kg	U

Table 17: Complete REMP Results – Shoreline Sediment (pCi/kg)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2250	681491003	8/20/2024	Cobalt-57	-2.70E+00	1.48E+01	5.23E+01	pCi/kg	U
2250	681491003	8/20/2024	Cobalt-58	4.50E+01	2.81E+01	1.10E+02	pCi/kg	U
2250	681491003	8/20/2024	Cobalt-60	-1.59E+01	2.25E+01	6.52E+01	pCi/kg	U
2250	681491003	8/20/2024	Iodine-131	-8.06E+00	2.47E+02	7.84E+02	pCi/kg	U
2250	681491003	8/20/2024	Iron-59	7.11E+01	6.90E+01	2.55E+02	pCi/kg	U
2250	681491003	8/20/2024	Lanthanum-140	-9.63E+00	1.08E+02	3.60E+02	pCi/kg	U
2250	681491003	8/20/2024	Lead-210	6.29E+03	6.38E+03	1.11E+04	pCi/kg	U
2250	681491003	8/20/2024	Lead-212	2.18E+03	1.11E+02	1.41E+02	pCi/kg	
2250	681491003	8/20/2024	Lead-214	1.73E+03	1.47E+02	1.60E+02	pCi/kg	
2250	681491003	8/20/2024	Manganese-54	1.25E+01	2.76E+01	8.85E+01	pCi/kg	U
2250	681491003	8/20/2024	Molybdenum-99	-6.56E+02	3.00E+05	0.00E+00	pCi/kg	U
2250	681491003	8/20/2024	Niobium-95	1.66E+01	3.21E+01	1.03E+02	pCi/kg	U
2250	681491003	8/20/2024	Potassium-40	7.59E+03	6.89E+02	3.09E+02	pCi/kg	
2250	681491003	8/20/2024	Radium-226	1.73E+03	1.47E+02	1.60E+02	pCi/kg	
2250	681491003	8/20/2024	Radium-228	1.94E+03	2.17E+02	2.56E+02	pCi/kg	
2250	681491003	8/20/2024	Ruthenium-103	-1.02E+01	2.95E+01	9.82E+01	pCi/kg	U
2250	681491003	8/20/2024	Ruthenium-106	-1.02E+02	1.96E+02	6.22E+02	pCi/kg	U
2250	681491003	8/20/2024	Selenium-75	-2.89E+01	3.25E+01	1.01E+02	pCi/kg	U
2250	681491003	8/20/2024	Silver-108m	-1.96E+00	1.68E+01	5.79E+01	pCi/kg	U
2250	681491003	8/20/2024	Silver-110m	1.00E+02	4.24E+01	1.07E+02	pCi/kg	U
2250	681491003	8/20/2024	Tellurium-132	-3.65E+03	1.02E+04	3.35E+04	pCi/kg	U
2250	681491003	8/20/2024	Thallium-208	4.67E+02	7.29E+01	8.93E+01	pCi/kg	
2250	681491003	8/20/2024	Thorium-228	2.18E+03	1.11E+02	1.41E+02	pCi/kg	
2250	681491003	8/20/2024	Thorium-230	1.73E+03	1.47E+02	1.60E+02	pCi/kg	
2250	681491003	8/20/2024	Thorium-232	1.94E+03	2.17E+02	2.56E+02	pCi/kg	
2250	681491003	8/20/2024	Thorium-234	-1.86E+02	8.67E+02	3.30E+03	pCi/kg	U
2250	681491003	8/20/2024	Uranium-234	1.73E+03	1.47E+02	1.60E+02	pCi/kg	
2250	681491003	8/20/2024	Zinc-65	-2.64E+00	6.06E+01	1.77E+02	pCi/kg	U
2250	681491003	8/20/2024	Zirconium-95	-4.27E+01	4.76E+01	1.53E+02	pCi/kg	U
2254	681491002	8/20/2024	Actinium-228	8.44E+02	1.30E+02	1.78E+02	pCi/kg	
2254	681491002	8/20/2024	Americium-241	1.04E+02	4.28E+01	1.63E+02	pCi/kg	U
2254	681491002	8/20/2024	Antimony-124	-9.13E+00	3.62E+01	1.09E+02	pCi/kg	U
2254	681491002	8/20/2024	Antimony-125	-1.52E+01	3.13E+01	1.01E+02	pCi/kg	U
2254	681491002	8/20/2024	Barium-140	-3.24E+01	2.73E+02	9.16E+02	pCi/kg	U
2254	681491002	8/20/2024	Beryllium-7	3.90E+02	1.50E+02	5.42E+02	pCi/kg	U
2254	681491002	8/20/2024	Bismuth-214	5.65E+02	6.33E+01	8.23E+01	pCi/kg	
2254	681491002	8/20/2024	Cerium-141	9.01E+01	7.25E+01	9.90E+01	pCi/kg	U
2254	681491002	8/20/2024	Cerium-144	3.00E+01	8.32E+01	2.85E+02	pCi/kg	U
2254	681491002	8/20/2024	Cesium-134	2.22E+01	2.12E+01	7.57E+01	pCi/kg	U
2254	681491002	8/20/2024	Cesium-137	1.48E+01	1.68E+01	6.00E+01	pCi/kg	U
2254	681491002	8/20/2024	Chromium-51	1.27E+02	2.28E+02	8.24E+02	pCi/kg	U
2254	681491002	8/20/2024	Cobalt-57	1.37E+01	1.07E+01	3.89E+01	pCi/kg	U
2254	681491002	8/20/2024	Cobalt-58	-1.03E+01	1.95E+01	5.85E+01	pCi/kg	U
2254	681491002	8/20/2024	Cobalt-60	-5.46E+00	1.56E+01	4.84E+01	pCi/kg	U
2254	681491002	8/20/2024	Iodine-131	-2.78E+01	1.59E+02	5.41E+02	pCi/kg	U
2254	681491002	8/20/2024	Iron-59	-5.71E+01	4.47E+01	1.24E+02	pCi/kg	U

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Table 17: Complete REMP Results – Shoreline Sediment (pCi/kg)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2254	681491002	8/20/2024	Lanthanum-140	2.58E+01	6.95E+01	2.44E+02	pCi/kg	U
2254	681491002	8/20/2024	Lead-210	9.65E+02	8.83E+02	3.33E+03	pCi/kg	U
2254	681491002	8/20/2024	Lead-212	6.83E+02	6.22E+01	7.93E+01	pCi/kg	
2254	681491002	8/20/2024	Lead-214	4.09E+02	6.99E+01	1.02E+02	pCi/kg	
2254	681491002	8/20/2024	Manganese-54	8.07E+00	1.47E+01	5.37E+01	pCi/kg	U
2254	681491002	8/20/2024	Molybdenum-99	-4.96E+04	1.67E+05	0.00E+00	pCi/kg	U
2254	681491002	8/20/2024	Niobium-95	-1.53E+01	2.40E+01	6.24E+01	pCi/kg	U
2254	681491002	8/20/2024	Potassium-40	4.40E+02	3.94E+02	6.04E+02	pCi/kg	U
2254	681491002	8/20/2024	Radium-226	4.09E+02	6.99E+01	1.02E+02	pCi/kg	
2254	681491002	8/20/2024	Radium-228	8.44E+02	1.30E+02	1.78E+02	pCi/kg	
2254	681491002	8/20/2024	Ruthenium-103	-1.97E+01	2.16E+01	6.62E+01	pCi/kg	U
2254	681491002	8/20/2024	Ruthenium-106	1.26E+02	1.48E+02	5.29E+02	pCi/kg	U
2254	681491002	8/20/2024	Selenium-75	1.20E+01	2.00E+01	7.32E+01	pCi/kg	U
2254	681491002	8/20/2024	Silver-108m	-3.86E+00	1.16E+01	3.82E+01	pCi/kg	U
2254	681491002	8/20/2024	Silver-110m	1.17E+01	2.19E+01	7.95E+01	pCi/kg	U
2254	681491002	8/20/2024	Tellurium-132	-6.56E+02	5.25E+03	1.86E+04	pCi/kg	U
2254	681491002	8/20/2024	Thallium-208	1.96E+02	4.09E+01	4.88E+01	pCi/kg	
2254	681491002	8/20/2024	Thorium-228	6.83E+02	6.22E+01	7.93E+01	pCi/kg	
2254	681491002	8/20/2024	Thorium-230	4.09E+02	6.99E+01	1.02E+02	pCi/kg	
2254	681491002	8/20/2024	Thorium-232	8.44E+02	1.30E+02	1.78E+02	pCi/kg	
2254	681491002	8/20/2024	Thorium-234	1.72E+03	9.14E+02	1.44E+03	pCi/kg	UI
2254	681491002	8/20/2024	Uranium-234	4.09E+02	6.99E+01	1.02E+02	pCi/kg	
2254	681491002	8/20/2024	Zinc-65	-9.29E+00	3.57E+01	9.98E+01	pCi/kg	U
2254	681491002	8/20/2024	Zirconium-95	1.65E+00	4.24E+01	9.70E+01	pCi/kg	U
2255	681491001	8/20/2024	Actinium-228	1.60E+03	2.66E+02	9.47E+02	pCi/kg	UI
2255	681491001	8/20/2024	Americium-241	5.47E+01	3.28E+02	1.12E+03	pCi/kg	U
2255	681491001	8/20/2024	Antimony-124	2.17E+01	5.12E+01	1.82E+02	pCi/kg	U
2255	681491001	8/20/2024	Antimony-125	-8.35E+01	8.03E+01	2.54E+02	pCi/kg	U
2255	681491001	8/20/2024	Barium-140	-4.49E+02	5.57E+02	1.77E+03	pCi/kg	U
2255	681491001	8/20/2024	Beryllium-7	5.44E+02	3.96E+02	1.42E+03	pCi/kg	U
2255	681491001	8/20/2024	Bismuth-214	1.26E+03	1.45E+02	1.97E+02	pCi/kg	
2255	681491001	8/20/2024	Cerium-141	-5.03E+01	9.17E+01	2.97E+02	pCi/kg	U
2255	681491001	8/20/2024	Cerium-144	-1.45E+02	2.16E+02	6.96E+02	pCi/kg	U
2255	681491001	8/20/2024	Cesium-134	7.74E+01	3.74E+01	1.39E+02	pCi/kg	U
2255	681491001	8/20/2024	Cesium-137	6.00E+01	3.68E+01	1.22E+02	pCi/kg	U
2255	681491001	8/20/2024	Chromium-51	-1.71E+01	5.27E+02	1.59E+03	pCi/kg	U
2255	681491001	8/20/2024	Cobalt-57	6.99E+00	2.79E+01	9.38E+01	pCi/kg	U
2255	681491001	8/20/2024	Cobalt-58	1.28E+01	3.58E+01	1.20E+02	pCi/kg	U
2255	681491001	8/20/2024	Cobalt-60	3.76E+01	3.15E+01	1.08E+02	pCi/kg	U
2255	681491001	8/20/2024	Iodine-131	2.08E+02	4.56E+02	1.41E+03	pCi/kg	U
2255	681491001	8/20/2024	Iron-59	-9.37E+01	9.00E+01	2.24E+02	pCi/kg	U
2255	681491001	8/20/2024	Lanthanum-140	2.82E-01	1.65E+02	5.41E+02	pCi/kg	U
2255	681491001	8/20/2024	Lead-210	3.14E+04	2.15E+04	6.89E+04	pCi/kg	U
2255	681491001	8/20/2024	Lead-212	1.44E+03	1.18E+02	2.07E+02	pCi/kg	
2255	681491001	8/20/2024	Lead-214	1.54E+03	1.81E+02	2.32E+02	pCi/kg	
2255	681491001	8/20/2024	Manganese-54	-2.96E+01	2.96E+01	8.70E+01	pCi/kg	U

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Table 17: Complete REMP Results – Shoreline Sediment (pCi/kg)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2255	681491001	8/20/2024	Molybdenum-99	4.63E+05	3.91E+05	0.00E+00	pCi/kg	UI
2255	681491001	8/20/2024	Niobium-95	7.73E+01	3.87E+01	1.35E+02	pCi/kg	U
2255	681491001	8/20/2024	Potassium-40	4.85E+03	6.08E+02	7.87E+02	pCi/kg	
2255	681491001	8/20/2024	Radium-226	1.54E+03	1.81E+02	2.32E+02	pCi/kg	
2255	681491001	8/20/2024	Radium-228	1.60E+03	2.66E+02	9.47E+02	pCi/kg	UI
2255	681491001	8/20/2024	Ruthenium-103	-9.30E+01	4.29E+01	1.22E+02	pCi/kg	U
2255	681491001	8/20/2024	Ruthenium-106	2.35E+02	3.13E+02	1.08E+03	pCi/kg	U
2255	681491001	8/20/2024	Selenium-75	3.61E+01	5.09E+01	1.69E+02	pCi/kg	U
2255	681491001	8/20/2024	Silver-108m	2.11E+01	2.63E+01	9.26E+01	pCi/kg	U
2255	681491001	8/20/2024	Silver-110m	1.50E+01	3.94E+01	1.32E+02	pCi/kg	U
2255	681491001	8/20/2024	Tellurium-132	-3.10E+03	1.60E+04	5.13E+04	pCi/kg	U
2255	681491001	8/20/2024	Thallium-208	3.94E+02	7.89E+01	9.64E+01	pCi/kg	
2255	681491001	8/20/2024	Thorium-228	1.44E+03	1.18E+02	2.07E+02	pCi/kg	
2255	681491001	8/20/2024	Thorium-230	1.54E+03	1.81E+02	2.32E+02	pCi/kg	
2255	681491001	8/20/2024	Thorium-232	1.60E+03	2.66E+02	9.47E+02	pCi/kg	UI
2255	681491001	8/20/2024	Thorium-234	-5.02E+02	2.39E+03	8.02E+03	pCi/kg	U
2255	681491001	8/20/2024	Uranium-234	1.54E+03	1.81E+02	2.32E+02	pCi/kg	
2255	681491001	8/20/2024	Zinc-65	9.14E+01	7.97E+01	2.63E+02	pCi/kg	U

Table 18: Complete REMP Results – Soil (pCi/kg)								
Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	662057001	4/8/2024	Actinium-228	7.05E+02	1.01E+02	1.39E+02	pCi/kg	
2102	662057001	4/8/2024	Americium-241	-3.39E+01	6.97E+01	2.28E+02	pCi/kg	U
2102	662057001	4/8/2024	Antimony-124	6.95E+01	3.36E+01	1.32E+02	pCi/kg	U
2102	662057001	4/8/2024	Antimony-125	-2.99E+01	3.11E+01	9.97E+01	pCi/kg	U
2102	662057001	4/8/2024	Barium-140	2.19E+02	3.06E+02	1.04E+03	pCi/kg	U
2102	662057001	4/8/2024	Beryllium-7	3.70E+02	2.28E+02	4.82E+02	pCi/kg	U
2102	662057001	4/8/2024	Bismuth-214	6.18E+02	5.36E+01	6.46E+01	pCi/kg	
2102	662057001	4/8/2024	Cerium-141	-2.69E+01	3.52E+01	1.06E+02	pCi/kg	U
2102	662057001	4/8/2024	Cerium-144	-6.78E+00	7.25E+01	2.26E+02	pCi/kg	U
2102	662057001	4/8/2024	Cesium-134	3.49E+01	1.42E+01	5.29E+01	pCi/kg	U
2102	662057001	4/8/2024	Cesium-137	6.28E+01	1.84E+01	4.13E+01	pCi/kg	M
2102	662057001	4/8/2024	Chromium-51	-6.40E+01	2.22E+02	7.03E+02	pCi/kg	U
2102	662057001	4/8/2024	Cobalt-57	-3.34E+00	9.48E+00	2.94E+01	pCi/kg	U
2102	662057001	4/8/2024	Cobalt-58	-1.39E+01	1.58E+01	4.97E+01	pCi/kg	U
2102	662057001	4/8/2024	Cobalt-60	6.43E+00	1.44E+01	4.90E+01	pCi/kg	U
2102	662057001	4/8/2024	Iodine-131	-5.49E+02	3.02E+02	8.73E+02	pCi/kg	U
2102	662057001	4/8/2024	Iron-59	9.53E+01	4.89E+01	1.74E+02	pCi/kg	U
2102	662057001	4/8/2024	Lanthanum-140	-6.67E+01	1.10E+02	3.36E+02	pCi/kg	U
2102	662057001	4/8/2024	Lead-210	-5.25E+02	2.60E+03	8.72E+03	pCi/kg	U
2102	662057001	4/8/2024	Lead-212	6.22E+02	4.10E+01	5.90E+01	pCi/kg	

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Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2102	662057001	4/8/2024	Lead-214	6.35E+02	5.17E+01	7.60E+01	pCi/kg	
2102	662057001	4/8/2024	Manganese-54	1.16E+01	1.48E+01	5.08E+01	pCi/kg	U
2102	662057001	4/8/2024	Molybdenum-99	1.06E+06	1.30E+06	0.00E+00	pCi/kg	UI
2102	662057001	4/8/2024	Niobium-95	1.55E+01	1.79E+01	6.20E+01	pCi/kg	U
2102	662057001	4/8/2024	Potassium-40	8.02E+03	4.13E+02	3.42E+02	pCi/kg	
2102	662057001	4/8/2024	Radium-226	6.35E+02	5.17E+01	7.60E+01	pCi/kg	
2102	662057001	4/8/2024	Radium-228	7.05E+02	1.01E+02	1.39E+02	pCi/kg	
2102	662057001	4/8/2024	Ruthenium-103	-3.87E+00	1.97E+01	6.44E+01	pCi/kg	U
2102	662057001	4/8/2024	Ruthenium-106	7.25E+01	1.13E+02	3.77E+02	pCi/kg	U
2102	662057001	4/8/2024	Selenium-75	4.04E+00	1.76E+01	5.20E+01	pCi/kg	U
2102	662057001	4/8/2024	Silver-108m	-5.74E+00	9.61E+00	3.13E+01	pCi/kg	U
2102	662057001	4/8/2024	Silver-110m	-2.85E+00	1.86E+01	6.08E+01	pCi/kg	U
2102	662057001	4/8/2024	Strontium-89	3.68E+01	7.68E+01	2.47E+02	pCi/kg	U
2102	662057001	4/8/2024	Strontium-90	1.40E+01	3.48E+01	1.61E+02	pCi/kg	U
2102	662057001	4/8/2024	Tellurium-132	4.96E+04	3.20E+04	0.00E+00	pCi/kg	UI
2102	662057001	4/8/2024	Thallium-208	1.53E+02	2.42E+01	3.84E+01	pCi/kg	
2102	662057001	4/8/2024	Thorium-228	6.22E+02	4.10E+01	5.90E+01	pCi/kg	
2102	662057001	4/8/2024	Thorium-230	6.35E+02	5.17E+01	7.60E+01	pCi/kg	
2102	662057001	4/8/2024	Thorium-232	7.05E+02	1.01E+02	1.39E+02	pCi/kg	
2102	662057001	4/8/2024	Thorium-234	9.94E+02	8.57E+02	1.89E+03	pCi/kg	U
2102	662057001	4/8/2024	Uranium-234	6.35E+02	5.17E+01	7.60E+01	pCi/kg	
2102	662057001	4/8/2024	Zinc-65	3.66E+01	3.72E+01	1.12E+02	pCi/kg	U
2102	662057001	4/8/2024	Zirconium-95	-1.34E+01	2.95E+01	9.60E+01	pCi/kg	U
2106	662057002	4/8/2024	Actinium-228	9.21E+02	1.14E+02	1.50E+02	pCi/kg	
2106	662057002	4/8/2024	Americium-241	2.60E+01	1.09E+01	3.80E+01	pCi/kg	U
2106	662057002	4/8/2024	Antimony-124	5.76E+00	4.06E+01	1.39E+02	pCi/kg	U
2106	662057002	4/8/2024	Antimony-125	2.09E+01	2.68E+01	9.60E+01	pCi/kg	U
2106	662057002	4/8/2024	Barium-140	-5.96E+02	3.14E+02	9.26E+02	pCi/kg	U
2106	662057002	4/8/2024	Beryllium-7	2.25E+01	1.41E+02	4.83E+02	pCi/kg	U
2106	662057002	4/8/2024	Bismuth-214	7.77E+02	7.02E+01	5.54E+01	pCi/kg	
2106	662057002	4/8/2024	Cerium-141	-4.78E+01	2.58E+01	7.49E+01	pCi/kg	U
2106	662057002	4/8/2024	Cerium-144	1.35E+01	4.53E+01	1.60E+02	pCi/kg	U
2106	662057002	4/8/2024	Cesium-134	1.96E+01	1.84E+01	6.37E+01	pCi/kg	U
2106	662057002	4/8/2024	Cesium-137	2.54E+02	3.00E+01	4.22E+01	pCi/kg	
2106	662057002	4/8/2024	Chromium-51	7.46E+01	1.89E+02	6.22E+02	pCi/kg	U
2106	662057002	4/8/2024	Cobalt-57	8.53E-01	5.22E+00	1.85E+01	pCi/kg	U
2106	662057002	4/8/2024	Cobalt-58	1.94E+01	1.57E+01	5.62E+01	pCi/kg	U
2106	662057002	4/8/2024	Cobalt-60	3.49E+01	1.44E+01	5.88E+01	pCi/kg	U
2106	662057002	4/8/2024	Iodine-131	3.86E+01	2.49E+02	7.97E+02	pCi/kg	U
2106	662057002	4/8/2024	Iron-59	3.43E+01	3.71E+01	1.36E+02	pCi/kg	U
2106	662057002	4/8/2024	Lanthanum-140	-1.29E+02	1.45E+02	3.26E+02	pCi/kg	U
2106	662057002	4/8/2024	Lead-210	1.79E+03	2.38E+02	2.75E+02	pCi/kg	
2106	662057002	4/8/2024	Lead-212	8.11E+02	3.92E+01	5.46E+01	pCi/kg	
2106	662057002	4/8/2024	Lead-214	1.03E+03	7.10E+01	6.80E+01	pCi/kg	
2106	662057002	4/8/2024	Manganese-54	3.89E+00	1.43E+01	4.68E+01	pCi/kg	U
2106	662057002	4/8/2024	Molybdenum-99	-2.53E+06	1.48E+06	0.00E+00	pCi/kg	U

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Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2106	662057002	4/8/2024	Niobium-95	-1.03E+01	2.24E+01	6.13E+01	pCi/kg	U
2106	662057002	4/8/2024	Potassium-40	3.85E+03	5.66E+02	5.10E+02	pCi/kg	
2106	662057002	4/8/2024	Radium-226	1.03E+03	7.10E+01	6.80E+01	pCi/kg	
2106	662057002	4/8/2024	Radium-228	9.21E+02	1.14E+02	1.50E+02	pCi/kg	
2106	662057002	4/8/2024	Ruthenium-103	-2.99E+01	1.84E+01	5.58E+01	pCi/kg	U
2106	662057002	4/8/2024	Ruthenium-106	-1.56E+01	1.16E+02	3.81E+02	pCi/kg	U
2106	662057002	4/8/2024	Selenium-75	-1.06E+01	1.33E+01	4.18E+01	pCi/kg	U
2106	662057002	4/8/2024	Silver-108m	-1.00E+01	9.69E+00	3.16E+01	pCi/kg	U
2106	662057002	4/8/2024	Silver-110m	6.83E+00	1.99E+01	6.52E+01	pCi/kg	U
2106	662057002	4/8/2024	Strontium-89	7.57E+01	3.34E+01	8.73E+01	pCi/kg	U
2106	662057002	4/8/2024	Strontium-90	-6.39E+01	2.69E+01	1.39E+02	pCi/kg	U
2106	662057002	4/8/2024	Tellurium-132	-7.26E+03	2.71E+04	0.00E+00	pCi/kg	U
2106	662057002	4/8/2024	Thallium-208	2.39E+02	3.41E+01	3.90E+01	pCi/kg	
2106	662057002	4/8/2024	Thorium-228	8.11E+02	3.92E+01	5.46E+01	pCi/kg	
2106	662057002	4/8/2024	Thorium-230	1.03E+03	7.10E+01	6.80E+01	pCi/kg	
2106	662057002	4/8/2024	Thorium-232	9.21E+02	1.14E+02	1.50E+02	pCi/kg	
2106	662057002	4/8/2024	Thorium-234	1.00E+03	2.95E+02	3.60E+02	pCi/kg	UI
2106	662057002	4/8/2024	Uranium-234	1.03E+03	7.10E+01	6.80E+01	pCi/kg	
2106	662057002	4/8/2024	Zinc-65	2.27E+00	3.74E+01	1.10E+02	pCi/kg	U
2106	662057002	4/8/2024	Zirconium-95	4.41E+01	5.40E+01	1.23E+02	pCi/kg	U
2107	662057003	4/8/2024	Actinium-228	7.24E+02	1.06E+02	1.27E+02	pCi/kg	
2107	662057003	4/8/2024	Americium-241	-2.21E+01	4.27E+01	1.34E+02	pCi/kg	U
2107	662057003	4/8/2024	Antimony-124	-3.80E+01	3.28E+01	8.79E+01	pCi/kg	U
2107	662057003	4/8/2024	Antimony-125	-4.89E+01	2.99E+01	7.98E+01	pCi/kg	U
2107	662057003	4/8/2024	Barium-140	-1.25E+02	2.42E+02	7.78E+02	pCi/kg	U
2107	662057003	4/8/2024	Beryllium-7	2.15E+02	1.36E+02	4.95E+02	pCi/kg	U
2107	662057003	4/8/2024	Bismuth-214	6.88E+02	6.72E+01	8.52E+01	pCi/kg	
2107	662057003	4/8/2024	Cerium-141	-6.68E+01	3.09E+01	9.32E+01	pCi/kg	U
2107	662057003	4/8/2024	Cerium-144	1.92E+01	6.76E+01	2.09E+02	pCi/kg	U
2107	662057003	4/8/2024	Cesium-134	1.21E+01	1.60E+01	4.88E+01	pCi/kg	U
2107	662057003	4/8/2024	Cesium-137	1.76E+02	2.30E+01	3.87E+01	pCi/kg	M
2107	662057003	4/8/2024	Chromium-51	6.86E+00	1.86E+02	6.45E+02	pCi/kg	U
2107	662057003	4/8/2024	Cobalt-57	8.85E+00	7.54E+00	2.62E+01	pCi/kg	U
2107	662057003	4/8/2024	Cobalt-58	1.90E+01	1.46E+01	5.18E+01	pCi/kg	U
2107	662057003	4/8/2024	Cobalt-60	1.26E+01	1.14E+01	3.97E+01	pCi/kg	U
2107	662057003	4/8/2024	Iodine-131	-1.62E+02	2.54E+02	7.50E+02	pCi/kg	U
2107	662057003	4/8/2024	Iron-59	-3.95E+01	3.17E+01	9.46E+01	pCi/kg	U
2107	662057003	4/8/2024	Lanthanum-140	1.21E+01	9.98E+01	3.29E+02	pCi/kg	U
2107	662057003	4/8/2024	Lead-210	3.80E+03	2.66E+03	2.91E+03	pCi/kg	UI
2107	662057003	4/8/2024	Lead-212	6.38E+02	3.83E+01	5.56E+01	pCi/kg	
2107	662057003	4/8/2024	Lead-214	9.34E+02	5.94E+01	7.81E+01	pCi/kg	
2107	662057003	4/8/2024	Manganese-54	3.26E+01	1.22E+01	4.64E+01	pCi/kg	U
2107	662057003	4/8/2024	Molybdenum-99	7.99E+05	1.17E+06	0.00E+00	pCi/kg	UI
2107	662057003	4/8/2024	Niobium-95	2.64E+01	1.72E+01	5.65E+01	pCi/kg	U
2107	662057003	4/8/2024	Potassium-40	3.70E+03	2.96E+02	1.30E+02	pCi/kg	
2107	662057003	4/8/2024	Radium-226	9.34E+02	5.94E+01	7.81E+01	pCi/kg	

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Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2107	662057003	4/8/2024	Radium-228	7.24E+02	1.06E+02	1.27E+02	pCi/kg	
2107	662057003	4/8/2024	Ruthenium-103	-6.07E+00	1.65E+01	5.41E+01	pCi/kg	U
2107	662057003	4/8/2024	Ruthenium-106	-1.84E+02	9.25E+01	2.59E+02	pCi/kg	U
2107	662057003	4/8/2024	Selenium-75	2.57E+01	1.48E+01	4.82E+01	pCi/kg	U
2107	662057003	4/8/2024	Silver-108m	3.01E+01	9.48E+00	2.93E+01	pCi/kg	UI
2107	662057003	4/8/2024	Silver-110m	-1.27E+01	1.42E+01	4.14E+01	pCi/kg	U
2107	662057003	4/8/2024	Strontium-89	7.08E-01	2.85E+01	9.37E+01	pCi/kg	U
2107	662057003	4/8/2024	Strontium-90	4.27E+00	1.67E+01	7.80E+01	pCi/kg	U
2107	662057003	4/8/2024	Tellurium-132	-1.29E+04	2.71E+04	0.00E+00	pCi/kg	U
2107	662057003	4/8/2024	Thallium-208	2.13E+02	2.69E+01	3.07E+01	pCi/kg	
2107	662057003	4/8/2024	Thorium-228	6.38E+02	3.83E+01	5.56E+01	pCi/kg	
2107	662057003	4/8/2024	Thorium-230	9.34E+02	5.94E+01	7.81E+01	pCi/kg	
2107	662057003	4/8/2024	Thorium-232	7.24E+02	1.06E+02	1.27E+02	pCi/kg	
2107	662057003	4/8/2024	Thorium-234	4.91E+02	6.88E+02	1.32E+03	pCi/kg	U
2107	662057003	4/8/2024	Uranium-234	9.34E+02	5.94E+01	7.81E+01	pCi/kg	
2107	662057003	4/8/2024	Zinc-65	-1.83E+01	2.60E+01	7.05E+01	pCi/kg	U
2107	662057003	4/8/2024	Zirconium-95	-1.51E+01	2.79E+01	8.69E+01	pCi/kg	U
2112	662057004	4/9/2024	Actinium-228	1.02E+03	1.97E+02	2.11E+02	pCi/kg	
2112	662057004	4/9/2024	Americium-241	-4.46E+01	1.44E+02	5.01E+02	pCi/kg	U
2112	662057004	4/9/2024	Antimony-124	-4.35E-03	2.97E+01	9.82E+01	pCi/kg	U
2112	662057004	4/9/2024	Antimony-125	5.12E+01	4.89E+01	1.78E+02	pCi/kg	U
2112	662057004	4/9/2024	Barium-140	-8.86E+01	3.24E+02	1.08E+03	pCi/kg	U
2112	662057004	4/9/2024	Beryllium-7	1.19E+02	2.39E+02	8.40E+02	pCi/kg	U
2112	662057004	4/9/2024	Bismuth-214	1.16E+03	1.12E+02	1.22E+02	pCi/kg	
2112	662057004	4/9/2024	Cerium-141	1.75E+01	8.02E+01	1.87E+02	pCi/kg	U
2112	662057004	4/9/2024	Cerium-144	8.75E+01	1.17E+02	4.38E+02	pCi/kg	U
2112	662057004	4/9/2024	Cesium-134	3.96E+00	2.37E+01	6.99E+01	pCi/kg	U
2112	662057004	4/9/2024	Cesium-137	-2.41E+01	2.12E+01	6.51E+01	pCi/kg	U
2112	662057004	4/9/2024	Chromium-51	-2.79E+01	2.90E+02	1.01E+03	pCi/kg	U
2112	662057004	4/9/2024	Cobalt-57	4.09E+00	1.56E+01	5.75E+01	pCi/kg	U
2112	662057004	4/9/2024	Cobalt-58	1.86E+01	2.45E+01	7.73E+01	pCi/kg	U
2112	662057004	4/9/2024	Cobalt-60	-7.49E-01	1.38E+01	4.60E+01	pCi/kg	U
2112	662057004	4/9/2024	Iodine-131	-4.89E+02	2.80E+02	7.40E+02	pCi/kg	U
2112	662057004	4/9/2024	Iron-59	-6.40E+01	4.70E+01	1.37E+02	pCi/kg	U
2112	662057004	4/9/2024	Lanthanum-140	-2.09E+02	8.36E+01	1.28E+02	pCi/kg	U
2112	662057004	4/9/2024	Lead-210	-5.66E+03	3.96E+03	1.34E+04	pCi/kg	U
2112	662057004	4/9/2024	Lead-212	1.33E+03	7.45E+01	1.05E+02	pCi/kg	
2112	662057004	4/9/2024	Lead-214	1.70E+03	1.24E+02	1.31E+02	pCi/kg	
2112	662057004	4/9/2024	Manganese-54	1.60E+00	2.04E+01	6.78E+01	pCi/kg	U
2112	662057004	4/9/2024	Molybdenum-99	-2.21E+05	3.26E+05	0.00E+00	pCi/kg	U
2112	662057004	4/9/2024	Niobium-95	8.37E+01	3.26E+01	1.16E+02	pCi/kg	U
2112	662057004	4/9/2024	Potassium-40	2.79E+03	4.51E+02	5.54E+02	pCi/kg	
2112	662057004	4/9/2024	Radium-226	1.70E+03	1.24E+02	1.31E+02	pCi/kg	
2112	662057004	4/9/2024	Radium-228	1.02E+03	1.97E+02	2.11E+02	pCi/kg	
2112	662057004	4/9/2024	Ruthenium-103	-1.46E+01	2.91E+01	9.62E+01	pCi/kg	U
2112	662057004	4/9/2024	Ruthenium-106	2.23E+01	1.90E+02	6.44E+02	pCi/kg	U

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Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2112	662057004	4/9/2024	Selenium-75	2.79E+01	2.71E+01	9.96E+01	pCi/kg	U
2112	662057004	4/9/2024	Silver-108m	1.74E+01	1.64E+01	5.97E+01	pCi/kg	U
2112	662057004	4/9/2024	Silver-110m	-4.55E+01	2.47E+01	6.48E+01	pCi/kg	U
2112	662057004	4/9/2024	Strontium-89	3.81E+01	2.04E+01	6.46E+01	pCi/kg	U
2112	662057004	4/9/2024	Strontium-90	-4.38E+00	3.10E+01	1.48E+02	pCi/kg	U
2112	662057004	4/9/2024	Tellurium-132	1.78E+04	1.25E+04	4.67E+04	pCi/kg	U
2112	662057004	4/9/2024	Thallium-208	3.55E+02	6.08E+01	5.67E+01	pCi/kg	
2112	662057004	4/9/2024	Thorium-228	1.33E+03	7.45E+01	1.05E+02	pCi/kg	
2112	662057004	4/9/2024	Thorium-230	1.70E+03	1.24E+02	1.31E+02	pCi/kg	
2112	662057004	4/9/2024	Thorium-232	1.02E+03	1.97E+02	2.11E+02	pCi/kg	
2112	662057004	4/9/2024	Thorium-234	-2.16E+02	1.28E+03	4.49E+03	pCi/kg	U
2112	662057004	4/9/2024	Uranium-234	1.70E+03	1.24E+02	1.31E+02	pCi/kg	
2112	662057004	4/9/2024	Zinc-65	2.52E+01	4.74E+01	1.50E+02	pCi/kg	U
2112	662057004	4/9/2024	Zirconium-95	4.18E+01	4.53E+01	1.61E+02	pCi/kg	U
2115	662057005	4/9/2024	Actinium-228	4.57E+02	1.10E+02	1.05E+02	pCi/kg	
2115	662057005	4/9/2024	Americium-241	3.63E+01	6.69E+01	2.53E+02	pCi/kg	U
2115	662057005	4/9/2024	Antimony-124	-3.44E+01	3.28E+01	8.92E+01	pCi/kg	U
2115	662057005	4/9/2024	Antimony-125	-3.86E+01	3.02E+01	9.92E+01	pCi/kg	U
2115	662057005	4/9/2024	Barium-140	-3.68E+01	2.52E+02	8.56E+02	pCi/kg	U
2115	662057005	4/9/2024	Beryllium-7	-4.56E+00	1.45E+02	5.06E+02	pCi/kg	U
2115	662057005	4/9/2024	Bismuth-214	4.03E+02	7.13E+01	8.49E+01	pCi/kg	
2115	662057005	4/9/2024	Cerium-141	-1.74E+00	3.34E+01	1.12E+02	pCi/kg	U
2115	662057005	4/9/2024	Cerium-144	-1.43E+02	7.66E+01	2.37E+02	pCi/kg	U
2115	662057005	4/9/2024	Cesium-134	5.57E+01	2.05E+01	5.42E+01	pCi/kg	UI
2115	662057005	4/9/2024	Cesium-137	7.08E+02	4.34E+01	4.15E+01	pCi/kg	
2115	662057005	4/9/2024	Chromium-51	3.93E+02	2.08E+02	7.79E+02	pCi/kg	U
2115	662057005	4/9/2024	Cobalt-57	1.37E+01	8.70E+00	3.22E+01	pCi/kg	U
2115	662057005	4/9/2024	Cobalt-58	1.15E+01	1.50E+01	5.43E+01	pCi/kg	U
2115	662057005	4/9/2024	Cobalt-60	9.61E+00	1.41E+01	5.01E+01	pCi/kg	U
2115	662057005	4/9/2024	Iodine-131	5.45E+02	2.22E+02	8.53E+02	pCi/kg	U
2115	662057005	4/9/2024	Iron-59	-2.07E+01	3.79E+01	1.19E+02	pCi/kg	U
2115	662057005	4/9/2024	Lanthanum-140	-4.86E+01	9.19E+01	2.83E+02	pCi/kg	U
2115	662057005	4/9/2024	Lead-210	1.52E+03	2.44E+03	9.44E+03	pCi/kg	U
2115	662057005	4/9/2024	Lead-212	4.91E+02	4.54E+01	6.27E+01	pCi/kg	
2115	662057005	4/9/2024	Lead-214	5.62E+02	7.66E+01	7.37E+01	pCi/kg	
2115	662057005	4/9/2024	Manganese-54	1.20E+01	1.15E+01	4.22E+01	pCi/kg	U
2115	662057005	4/9/2024	Molybdenum-99	-3.89E+05	8.13E+05	0.00E+00	pCi/kg	U
2115	662057005	4/9/2024	Niobium-95	-1.36E+01	1.59E+01	5.19E+01	pCi/kg	U
2115	662057005	4/9/2024	Potassium-40	6.86E+03	4.11E+02	2.25E+02	pCi/kg	
2115	662057005	4/9/2024	Radium-226	5.62E+02	7.66E+01	7.37E+01	pCi/kg	
2115	662057005	4/9/2024	Radium-228	4.57E+02	1.10E+02	1.05E+02	pCi/kg	
2115	662057005	4/9/2024	Ruthenium-103	-3.41E+01	1.80E+01	5.46E+01	pCi/kg	U
2115	662057005	4/9/2024	Ruthenium-106	1.98E+02	1.12E+02	3.43E+02	pCi/kg	U
2115	662057005	4/9/2024	Selenium-75	-2.16E+01	1.63E+01	5.29E+01	pCi/kg	U
2115	662057005	4/9/2024	Silver-108m	2.84E+00	1.01E+01	3.62E+01	pCi/kg	U
2115	662057005	4/9/2024	Silver-110m	-1.05E+01	1.53E+01	4.92E+01	pCi/kg	U

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Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2115	662057005	4/9/2024	Strontium-89	-2.38E-02	3.51E+01	1.15E+02	pCi/kg	U
2115	662057005	4/9/2024	Strontium-90	1.29E+01	2.58E+01	1.19E+02	pCi/kg	U
2115	662057005	4/9/2024	Tellurium-132	-1.23E+04	2.29E+04	0.00E+00	pCi/kg	U
2115	662057005	4/9/2024	Thallium-208	1.28E+02	2.86E+01	4.32E+01	pCi/kg	
2115	662057005	4/9/2024	Thorium-228	4.91E+02	4.54E+01	6.27E+01	pCi/kg	
2115	662057005	4/9/2024	Thorium-230	5.62E+02	7.66E+01	7.37E+01	pCi/kg	
2115	662057005	4/9/2024	Thorium-232	4.57E+02	1.10E+02	1.05E+02	pCi/kg	
2115	662057005	4/9/2024	Thorium-234	-3.36E+02	5.51E+02	1.96E+03	pCi/kg	U
2115	662057005	4/9/2024	Uranium-234	5.62E+02	7.66E+01	7.37E+01	pCi/kg	
2115	662057005	4/9/2024	Zinc-65	4.11E+01	3.14E+01	1.03E+02	pCi/kg	U
2115	662057005	4/9/2024	Zirconium-95	-1.09E+01	3.11E+01	9.55E+01	pCi/kg	U
2116	662057012	4/10/2024	Actinium-228	5.26E+02	1.43E+02	1.48E+02	pCi/kg	
2116	662057012	4/10/2024	Americium-241	-2.22E+01	1.15E+01	3.57E+01	pCi/kg	U
2116	662057012	4/10/2024	Antimony-124	1.80E+01	3.33E+01	1.26E+02	pCi/kg	U
2116	662057012	4/10/2024	Antimony-125	-4.53E+01	2.68E+01	8.54E+01	pCi/kg	U
2116	662057012	4/10/2024	Barium-140	4.42E+01	1.90E+02	6.19E+02	pCi/kg	U
2116	662057012	4/10/2024	Beryllium-7	6.04E+01	1.10E+02	4.11E+02	pCi/kg	U
2116	662057012	4/10/2024	Bismuth-214	7.14E+02	7.37E+01	6.73E+01	pCi/kg	
2116	662057012	4/10/2024	Cerium-141	1.09E+00	1.84E+01	6.98E+01	pCi/kg	U
2116	662057012	4/10/2024	Cerium-144	3.23E+01	3.65E+01	1.45E+02	pCi/kg	U
2116	662057012	4/10/2024	Cesium-134	-7.83E+00	1.52E+01	4.78E+01	pCi/kg	U
2116	662057012	4/10/2024	Cesium-137	6.08E+01	1.85E+01	3.64E+01	pCi/kg	M
2116	662057012	4/10/2024	Chromium-51	3.76E+01	1.37E+02	4.79E+02	pCi/kg	U
2116	662057012	4/10/2024	Cobalt-57	1.12E+00	4.43E+00	1.73E+01	pCi/kg	U
2116	662057012	4/10/2024	Cobalt-58	-6.07E+00	1.36E+01	4.26E+01	pCi/kg	U
2116	662057012	4/10/2024	Cobalt-60	-1.75E+01	1.46E+01	3.93E+01	pCi/kg	U
2116	662057012	4/10/2024	Iodine-131	1.02E+02	1.12E+02	4.09E+02	pCi/kg	U
2116	662057012	4/10/2024	Iron-59	-4.20E+01	3.80E+01	1.12E+02	pCi/kg	U
2116	662057012	4/10/2024	Lanthanum-140	-1.86E+02	9.95E+01	2.16E+02	pCi/kg	U
2116	662057012	4/10/2024	Lead-210	1.07E+03	2.86E+02	2.83E+02	pCi/kg	UI
2116	662057012	4/10/2024	Lead-212	6.28E+02	4.43E+01	4.84E+01	pCi/kg	
2116	662057012	4/10/2024	Lead-214	8.73E+02	6.64E+01	6.31E+01	pCi/kg	
2116	662057012	4/10/2024	Manganese-54	-1.70E+01	1.28E+01	3.51E+01	pCi/kg	U
2116	662057012	4/10/2024	Molybdenum-99	-7.47E+04	1.83E+05	0.00E+00	pCi/kg	U
2116	662057012	4/10/2024	Niobium-95	1.40E+01	1.63E+01	5.51E+01	pCi/kg	U
2116	662057012	4/10/2024	Potassium-40	4.01E+03	4.07E+02	3.57E+02	pCi/kg	
2116	662057012	4/10/2024	Radium-226	8.73E+02	6.64E+01	6.31E+01	pCi/kg	
2116	662057012	4/10/2024	Radium-228	5.26E+02	1.43E+02	1.48E+02	pCi/kg	
2116	662057012	4/10/2024	Ruthenium-103	-1.40E+01	1.31E+01	4.17E+01	pCi/kg	U
2116	662057012	4/10/2024	Ruthenium-106	1.79E+02	9.68E+01	3.75E+02	pCi/kg	U
2116	662057012	4/10/2024	Selenium-75	2.45E+00	1.10E+01	3.91E+01	pCi/kg	U
2116	662057012	4/10/2024	Silver-108m	2.68E+00	8.58E+00	3.19E+01	pCi/kg	U
2116	662057012	4/10/2024	Silver-110m	-3.08E+00	1.97E+01	6.37E+01	pCi/kg	U
2116	662057012	4/10/2024	Strontium-89	-3.51E+01	1.70E+01	5.85E+01	pCi/kg	U
2116	662057012	4/10/2024	Strontium-90	-7.12E+01	1.66E+01	1.01E+02	pCi/kg	U
2116	662057012	4/10/2024	Tellurium-132	-3.15E+03	4.51E+03	1.55E+04	pCi/kg	U

Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2116	662057012	4/10/2024	Thallium-208	1.72E+02	3.30E+01	3.69E+01	pCi/kg	
2116	662057012	4/10/2024	Thorium-228	6.28E+02	4.43E+01	4.84E+01	pCi/kg	
2116	662057012	4/10/2024	Thorium-230	8.72E+02	6.64E+01	6.31E+01	pCi/kg	
2116	662057012	4/10/2024	Thorium-232	5.26E+02	1.43E+02	1.48E+02	pCi/kg	
2116	662057012	4/10/2024	Thorium-234	2.20E+02	1.18E+02	4.49E+02	pCi/kg	U
2116	662057012	4/10/2024	Uranium-234	8.72E+02	6.64E+01	6.31E+01	pCi/kg	
2116	662057012	4/10/2024	Zinc-65	2.35E+01	2.43E+01	8.80E+01	pCi/kg	U
2116	662057012	4/10/2024	Zirconium-95	-2.73E+01	3.15E+01	6.97E+01	pCi/kg	U
2223	662057006	4/9/2024	Actinium-228	7.46E+02	9.71E+01	1.09E+02	pCi/kg	
2223	662057006	4/9/2024	Americium-241	-7.44E+00	8.55E+01	2.97E+02	pCi/kg	U
2223	662057006	4/9/2024	Antimony-124	-3.12E+01	3.44E+01	9.82E+01	pCi/kg	U
2223	662057006	4/9/2024	Antimony-125	1.27E+01	2.25E+01	7.93E+01	pCi/kg	U
2223	662057006	4/9/2024	Barium-140	3.19E+02	2.33E+02	8.38E+02	pCi/kg	U
2223	662057006	4/9/2024	Beryllium-7	2.98E+01	1.25E+02	4.27E+02	pCi/kg	U
2223	662057006	4/9/2024	Bismuth-214	5.24E+02	5.85E+01	5.08E+01	pCi/kg	
2223	662057006	4/9/2024	Cerium-141	-1.36E+01	2.86E+01	9.59E+01	pCi/kg	U
2223	662057006	4/9/2024	Cerium-144	-4.79E+01	5.85E+01	1.98E+02	pCi/kg	U
2223	662057006	4/9/2024	Cesium-134	4.32E+00	1.04E+01	3.51E+01	pCi/kg	U
2223	662057006	4/9/2024	Cesium-137	1.22E+02	2.53E+01	3.62E+01	pCi/kg	UI
2223	662057006	4/9/2024	Chromium-51	2.32E+01	1.63E+02	5.78E+02	pCi/kg	U
2223	662057006	4/9/2024	Cobalt-57	7.72E+00	7.13E+00	2.61E+01	pCi/kg	U
2223	662057006	4/9/2024	Cobalt-58	-1.06E+01	1.30E+01	3.49E+01	pCi/kg	U
2223	662057006	4/9/2024	Cobalt-60	2.25E+00	1.07E+01	3.67E+01	pCi/kg	U
2223	662057006	4/9/2024	Iodine-131	-5.83E+01	2.03E+02	6.93E+02	pCi/kg	U
2223	662057006	4/9/2024	Iron-59	1.61E+00	2.89E+01	9.99E+01	pCi/kg	U
2223	662057006	4/9/2024	Lanthanum-140	2.89E+01	9.30E+01	3.14E+02	pCi/kg	U
2223	662057006	4/9/2024	Lead-210	1.33E+04	1.04E+04	1.85E+04	pCi/kg	U
2223	662057006	4/9/2024	Lead-212	7.57E+02	4.15E+01	5.25E+01	pCi/kg	
2223	662057006	4/9/2024	Lead-214	7.12E+02	6.96E+01	6.83E+01	pCi/kg	
2223	662057006	4/9/2024	Manganese-54	1.68E+01	9.06E+00	3.47E+01	pCi/kg	U
2223	662057006	4/9/2024	Molybdenum-99	1.24E+06	7.54E+05	0.00E+00	pCi/kg	UI
2223	662057006	4/9/2024	Niobium-95	8.75E+00	1.42E+01	5.01E+01	pCi/kg	U
2223	662057006	4/9/2024	Potassium-40	3.99E+03	3.79E+02	4.12E+02	pCi/kg	UI
2223	662057006	4/9/2024	Radium-226	7.12E+02	6.96E+01	6.83E+01	pCi/kg	
2223	662057006	4/9/2024	Radium-228	7.46E+02	9.71E+01	1.09E+02	pCi/kg	
2223	662057006	4/9/2024	Ruthenium-103	-8.34E+00	1.60E+01	5.18E+01	pCi/kg	U
2223	662057006	4/9/2024	Ruthenium-106	9.98E+01	8.04E+01	3.02E+02	pCi/kg	U
2223	662057006	4/9/2024	Selenium-75	1.20E+01	1.35E+01	4.81E+01	pCi/kg	U
2223	662057006	4/9/2024	Silver-108m	4.03E+00	7.83E+00	2.74E+01	pCi/kg	U
2223	662057006	4/9/2024	Silver-110m	1.10E+01	1.57E+01	5.51E+01	pCi/kg	U
2223	662057006	4/9/2024	Strontium-89	-2.23E+01	3.11E+01	1.10E+02	pCi/kg	U
2223	662057006	4/9/2024	Strontium-90	-3.39E+01	2.55E+01	1.29E+02	pCi/kg	U
2223	662057006	4/9/2024	Tellurium-132	-1.83E+04	2.06E+04	0.00E+00	pCi/kg	U
2223	662057006	4/9/2024	Thallium-208	1.52E+02	2.65E+01	3.31E+01	pCi/kg	
2223	662057006	4/9/2024	Thorium-228	7.57E+02	4.15E+01	5.25E+01	pCi/kg	
2223	662057006	4/9/2024	Thorium-230	7.12E+02	6.95E+01	6.83E+01	pCi/kg	

Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2223	662057006	4/9/2024	Thorium-232	7.46E+02	9.71E+01	1.09E+02	pCi/kg	
2223	662057006	4/9/2024	Thorium-234	3.80E+03	1.41E+03	1.93E+03	pCi/kg	UI
2223	662057006	4/9/2024	Uranium-234	7.12E+02	6.95E+01	6.83E+01	pCi/kg	
2223	662057006	4/9/2024	Zinc-65	-2.29E+01	2.99E+01	8.27E+01	pCi/kg	U
2223	662057006	4/9/2024	Zirconium-95	1.57E+01	2.15E+01	7.70E+01	pCi/kg	U
2224	662057007	4/9/2024	Actinium-228	7.13E+02	1.05E+02	1.24E+02	pCi/kg	
2224	662057007	4/9/2024	Americium-241	2.46E+01	4.56E+01	1.72E+02	pCi/kg	U
2224	662057007	4/9/2024	Antimony-124	3.11E+01	3.23E+01	1.19E+02	pCi/kg	U
2224	662057007	4/9/2024	Antimony-125	-8.59E+00	2.48E+01	8.54E+01	pCi/kg	U
2224	662057007	4/9/2024	Barium-140	-1.28E+02	2.47E+02	8.15E+02	pCi/kg	U
2224	662057007	4/9/2024	Beryllium-7	6.78E+01	1.24E+02	4.41E+02	pCi/kg	U
2224	662057007	4/9/2024	Bismuth-214	9.75E+02	5.57E+01	6.02E+01	pCi/kg	
2224	662057007	4/9/2024	Cerium-141	5.97E+00	2.58E+01	9.41E+01	pCi/kg	U
2224	662057007	4/9/2024	Cerium-144	1.49E+01	5.10E+01	1.88E+02	pCi/kg	U
2224	662057007	4/9/2024	Cesium-134	5.72E+01	2.25E+01	5.43E+01	pCi/kg	UI
2224	662057007	4/9/2024	Cesium-137	1.22E+02	2.26E+01	3.37E+01	pCi/kg	M
2224	662057007	4/9/2024	Chromium-51	-1.74E+02	1.77E+02	6.18E+02	pCi/kg	U
2224	662057007	4/9/2024	Cobalt-57	-3.08E+00	6.04E+00	2.19E+01	pCi/kg	U
2224	662057007	4/9/2024	Cobalt-58	-1.33E+00	1.24E+01	4.27E+01	pCi/kg	U
2224	662057007	4/9/2024	Cobalt-60	-1.32E+01	1.25E+01	3.98E+01	pCi/kg	U
2224	662057007	4/9/2024	Iodine-131	-1.23E+01	1.91E+02	6.83E+02	pCi/kg	U
2224	662057007	4/9/2024	Iron-59	-1.67E+01	3.40E+01	1.08E+02	pCi/kg	U
2224	662057007	4/9/2024	Lanthanum-140	-5.45E+01	8.47E+01	2.62E+02	pCi/kg	U
2224	662057007	4/9/2024	Lead-210	-1.83E+03	1.72E+03	5.53E+03	pCi/kg	U
2224	662057007	4/9/2024	Lead-212	9.44E+02	4.36E+01	5.62E+01	pCi/kg	
2224	662057007	4/9/2024	Lead-214	1.20E+03	6.81E+01	7.63E+01	pCi/kg	
2224	662057007	4/9/2024	Manganese-54	4.67E+00	1.11E+01	3.91E+01	pCi/kg	U
2224	662057007	4/9/2024	Molybdenum-99	1.30E+06	6.99E+05	0.00E+00	pCi/kg	UI
2224	662057007	4/9/2024	Niobium-95	3.46E+00	1.68E+01	5.26E+01	pCi/kg	U
2224	662057007	4/9/2024	Potassium-40	3.20E+03	3.51E+02	4.14E+02	pCi/kg	
2224	662057007	4/9/2024	Radium-226	1.20E+03	6.81E+01	7.63E+01	pCi/kg	
2224	662057007	4/9/2024	Radium-228	7.13E+02	1.05E+02	1.24E+02	pCi/kg	
2224	662057007	4/9/2024	Ruthenium-103	-2.83E-01	1.67E+01	5.73E+01	pCi/kg	U
2224	662057007	4/9/2024	Ruthenium-106	-7.72E+01	8.17E+01	2.52E+02	pCi/kg	U
2224	662057007	4/9/2024	Selenium-75	-1.08E+01	1.59E+01	4.72E+01	pCi/kg	U
2224	662057007	4/9/2024	Silver-108m	9.94E+00	8.31E+00	3.08E+01	pCi/kg	U
2224	662057007	4/9/2024	Silver-110m	-1.63E+01	2.03E+01	5.55E+01	pCi/kg	U
2224	662057007	4/9/2024	Strontium-89	4.98E+01	5.16E+01	1.59E+02	pCi/kg	U
2224	662057007	4/9/2024	Strontium-90	-5.08E+01	4.05E+01	2.00E+02	pCi/kg	U
2224	662057007	4/9/2024	Tellurium-132	7.23E+04	4.94E+04	0.00E+00	pCi/kg	UI
2224	662057007	4/9/2024	Thallium-208	2.87E+02	2.91E+01	3.20E+01	pCi/kg	
2224	662057007	4/9/2024	Thorium-228	9.44E+02	4.36E+01	5.62E+01	pCi/kg	
2224	662057007	4/9/2024	Thorium-230	1.20E+03	6.81E+01	7.63E+01	pCi/kg	
2224	662057007	4/9/2024	Thorium-232	7.13E+02	1.05E+02	1.24E+02	pCi/kg	
2224	662057007	4/9/2024	Thorium-234	8.92E+02	1.09E+03	1.38E+03	pCi/kg	U
2224	662057007	4/9/2024	Uranium-234	1.20E+03	6.81E+01	7.63E+01	pCi/kg	

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Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2224	662057007	4/9/2024	Zinc-65	2.72E+01	2.71E+01	8.77E+01	pCi/kg	U
2224	662057007	4/9/2024	Zirconium-95	3.78E+01	2.42E+01	9.27E+01	pCi/kg	U
2225	662057008	4/9/2024	Actinium-228	1.03E+03	1.41E+02	1.79E+02	pCi/kg	
2225	662057008	4/9/2024	Americium-241	-7.36E+00	1.46E+01	4.83E+01	pCi/kg	U
2225	662057008	4/9/2024	Antimony-124	5.64E+01	4.59E+01	1.86E+02	pCi/kg	U
2225	662057008	4/9/2024	Antimony-125	4.90E+01	3.24E+01	1.27E+02	pCi/kg	U
2225	662057008	4/9/2024	Barium-140	1.33E+02	2.57E+02	8.46E+02	pCi/kg	U
2225	662057008	4/9/2024	Beryllium-7	4.14E+02	2.48E+02	5.90E+02	pCi/kg	U
2225	662057008	4/9/2024	Bismuth-214	9.27E+02	8.76E+01	1.05E+02	pCi/kg	
2225	662057008	4/9/2024	Cerium-141	-3.53E+01	2.78E+01	8.94E+01	pCi/kg	U
2225	662057008	4/9/2024	Cerium-144	-1.13E+01	5.36E+01	1.97E+02	pCi/kg	U
2225	662057008	4/9/2024	Cesium-134	1.09E+01	1.63E+01	5.76E+01	pCi/kg	U
2225	662057008	4/9/2024	Cesium-137	1.10E+00	1.63E+01	5.56E+01	pCi/kg	U
2225	662057008	4/9/2024	Chromium-51	-1.24E+02	2.12E+02	6.83E+02	pCi/kg	U
2225	662057008	4/9/2024	Cobalt-57	-1.25E+01	6.04E+00	2.06E+01	pCi/kg	U
2225	662057008	4/9/2024	Cobalt-58	-4.07E+01	2.06E+01	5.25E+01	pCi/kg	U
2225	662057008	4/9/2024	Cobalt-60	8.21E+00	1.34E+01	4.90E+01	pCi/kg	U
2225	662057008	4/9/2024	Iodine-131	1.18E+02	1.75E+02	5.65E+02	pCi/kg	U
2225	662057008	4/9/2024	Iron-59	-1.56E+01	4.80E+01	1.57E+02	pCi/kg	U
2225	662057008	4/9/2024	Lanthanum-140	-2.21E+02	1.09E+02	2.07E+02	pCi/kg	U
2225	662057008	4/9/2024	Lead-210	2.84E+03	3.67E+02	3.46E+02	pCi/kg	
2225	662057008	4/9/2024	Lead-212	1.09E+03	5.93E+01	6.62E+01	pCi/kg	
2225	662057008	4/9/2024	Lead-214	1.07E+03	9.02E+01	7.29E+01	pCi/kg	
2225	662057008	4/9/2024	Manganese-54	4.18E+01	2.37E+01	4.44E+01	pCi/kg	U
2225	662057008	4/9/2024	Molybdenum-99	-1.80E+05	2.89E+05	0.00E+00	pCi/kg	U
2225	662057008	4/9/2024	Niobium-95	1.49E-01	2.42E+01	7.17E+01	pCi/kg	U
2225	662057008	4/9/2024	Potassium-40	7.20E+03	6.26E+02	3.31E+02	pCi/kg	
2225	662057008	4/9/2024	Radium-226	1.07E+03	9.02E+01	7.29E+01	pCi/kg	
2225	662057008	4/9/2024	Radium-228	1.03E+03	1.41E+02	1.79E+02	pCi/kg	
2225	662057008	4/9/2024	Ruthenium-103	-1.48E+00	1.89E+01	5.90E+01	pCi/kg	U
2225	662057008	4/9/2024	Ruthenium-106	-1.13E+02	1.33E+02	4.21E+02	pCi/kg	U
2225	662057008	4/9/2024	Selenium-75	3.17E+00	1.64E+01	5.69E+01	pCi/kg	U
2225	662057008	4/9/2024	Silver-108m	-3.94E+00	9.87E+00	3.42E+01	pCi/kg	U
2225	662057008	4/9/2024	Silver-110m	3.18E+01	3.63E+01	7.27E+01	pCi/kg	U
2225	662057008	4/9/2024	Strontium-89	1.19E+01	1.23E+01	3.95E+01	pCi/kg	U
2225	662057008	4/9/2024	Strontium-90	-1.96E+00	2.22E+01	1.05E+02	pCi/kg	U
2225	662057008	4/9/2024	Tellurium-132	6.86E+03	7.21E+03	2.64E+04	pCi/kg	U
2225	662057008	4/9/2024	Thallium-208	3.05E+02	4.04E+01	5.20E+01	pCi/kg	
2225	662057008	4/9/2024	Thorium-228	1.09E+03	5.93E+01	6.62E+01	pCi/kg	
2225	662057008	4/9/2024	Thorium-230	1.07E+03	9.02E+01	7.29E+01	pCi/kg	
2225	662057008	4/9/2024	Thorium-232	1.03E+03	1.41E+02	1.79E+02	pCi/kg	
2225	662057008	4/9/2024	Thorium-234	1.29E+03	4.02E+02	4.98E+02	pCi/kg	UI
2225	662057008	4/9/2024	Uranium-234	1.07E+03	9.02E+01	7.29E+01	pCi/kg	
2225	662057008	4/9/2024	Zinc-65	-1.59E+01	3.88E+01	1.08E+02	pCi/kg	U
2225	662057008	4/9/2024	Zirconium-95	-2.28E+01	4.32E+01	1.37E+02	pCi/kg	U
2229	662057009	4/8/2024	Actinium-228	1.49E+03	1.54E+02	1.87E+02	pCi/kg	

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Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2229	662057009	4/8/2024	Americium-241	-8.76E+01	1.89E+02	6.32E+02	pCi/kg	U
2229	662057009	4/8/2024	Antimony-124	6.19E+01	3.77E+01	1.53E+02	pCi/kg	U
2229	662057009	4/8/2024	Antimony-125	4.27E+01	5.05E+01	1.77E+02	pCi/kg	U
2229	662057009	4/8/2024	Barium-140	-6.90E+02	3.78E+02	1.13E+03	pCi/kg	U
2229	662057009	4/8/2024	Beryllium-7	-4.07E+01	2.17E+02	7.17E+02	pCi/kg	U
2229	662057009	4/8/2024	Bismuth-214	8.81E+02	1.03E+02	1.30E+02	pCi/kg	
2229	662057009	4/8/2024	Cerium-141	1.29E+02	6.10E+01	2.13E+02	pCi/kg	U
2229	662057009	4/8/2024	Cerium-144	-3.51E+00	1.40E+02	4.13E+02	pCi/kg	U
2229	662057009	4/8/2024	Cesium-134	4.09E+01	2.12E+01	7.74E+01	pCi/kg	U
2229	662057009	4/8/2024	Cesium-137	1.81E+01	1.97E+01	6.80E+01	pCi/kg	U
2229	662057009	4/8/2024	Chromium-51	8.99E+02	3.74E+02	1.07E+03	pCi/kg	U
2229	662057009	4/8/2024	Cobalt-57	3.64E+01	1.71E+01	6.04E+01	pCi/kg	U
2229	662057009	4/8/2024	Cobalt-58	-4.41E+00	2.04E+01	6.49E+01	pCi/kg	U
2229	662057009	4/8/2024	Cobalt-60	7.41E+00	1.77E+01	6.10E+01	pCi/kg	U
2229	662057009	4/8/2024	Iodine-131	3.55E+02	2.69E+02	9.64E+02	pCi/kg	U
2229	662057009	4/8/2024	Iron-59	2.03E+01	4.97E+01	1.72E+02	pCi/kg	U
2229	662057009	4/8/2024	Lanthanum-140	-3.12E+02	1.35E+02	2.13E+02	pCi/kg	U
2229	662057009	4/8/2024	Lead-210	7.13E+02	1.09E+04	3.73E+04	pCi/kg	U
2229	662057009	4/8/2024	Lead-212	1.22E+03	7.77E+01	1.26E+02	pCi/kg	
2229	662057009	4/8/2024	Lead-214	1.39E+03	1.10E+02	1.28E+02	pCi/kg	
2229	662057009	4/8/2024	Manganese-54	6.93E-03	2.44E+01	7.87E+01	pCi/kg	U
2229	662057009	4/8/2024	Molybdenum-99	4.43E+05	4.35E+05	0.00E+00	pCi/kg	UI
2229	662057009	4/8/2024	Niobium-95	2.14E+01	3.26E+01	9.75E+01	pCi/kg	U
2229	662057009	4/8/2024	Potassium-40	6.56E+03	5.40E+02	5.14E+02	pCi/kg	
2229	662057009	4/8/2024	Radium-226	1.39E+03	1.10E+02	1.28E+02	pCi/kg	
2229	662057009	4/8/2024	Radium-228	1.49E+03	1.54E+02	1.87E+02	pCi/kg	
2229	662057009	4/8/2024	Ruthenium-103	-9.86E+00	2.67E+01	8.70E+01	pCi/kg	U
2229	662057009	4/8/2024	Ruthenium-106	-2.41E+02	1.49E+02	4.33E+02	pCi/kg	U
2229	662057009	4/8/2024	Selenium-75	-4.28E+01	3.19E+01	9.00E+01	pCi/kg	U
2229	662057009	4/8/2024	Silver-108m	1.24E+00	1.67E+01	5.22E+01	pCi/kg	U
2229	662057009	4/8/2024	Silver-110m	2.63E+01	2.67E+01	9.20E+01	pCi/kg	U
2229	662057009	4/8/2024	Strontium-89	7.98E+01	5.24E+01	1.56E+02	pCi/kg	U
2229	662057009	4/8/2024	Strontium-90	-9.51E+01	3.24E+01	1.70E+02	pCi/kg	U
2229	662057009	4/8/2024	Tellurium-132	2.95E+04	1.82E+04	6.22E+04	pCi/kg	U
2229	662057009	4/8/2024	Thallium-208	3.30E+02	5.05E+01	4.72E+01	pCi/kg	
2229	662057009	4/8/2024	Thorium-228	1.22E+03	7.77E+01	1.26E+02	pCi/kg	
2229	662057009	4/8/2024	Thorium-230	1.39E+03	1.10E+02	1.28E+02	pCi/kg	
2229	662057009	4/8/2024	Thorium-232	1.49E+03	1.54E+02	1.87E+02	pCi/kg	
2229	662057009	4/8/2024	Thorium-234	9.94E+02	1.51E+03	5.14E+03	pCi/kg	U
2229	662057009	4/8/2024	Uranium-234	1.39E+03	1.10E+02	1.28E+02	pCi/kg	
2229	662057009	4/8/2024	Zinc-65	-8.61E+00	4.24E+01	1.21E+02	pCi/kg	U
2229	662057009	4/8/2024	Zirconium-95	-4.10E+01	4.19E+01	1.26E+02	pCi/kg	U
2233	662057010	4/9/2024	Actinium-228	1.12E+03	2.08E+02	7.16E+02	pCi/kg	UI
2233	662057010	4/9/2024	Americium-241	-4.16E+01	5.00E+01	1.59E+02	pCi/kg	U
2233	662057010	4/9/2024	Antimony-124	-9.95E+01	8.39E+01	2.14E+02	pCi/kg	U
2233	662057010	4/9/2024	Antimony-125	-3.47E+01	6.67E+01	2.21E+02	pCi/kg	U

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Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2233	662057010	4/9/2024	Barium-140	7.54E+01	3.95E+02	1.35E+03	pCi/kg	U
2233	662057010	4/9/2024	Beryllium-7	-1.02E+02	2.64E+02	8.22E+02	pCi/kg	U
2233	662057010	4/9/2024	Bismuth-214	8.03E+02	1.13E+02	1.41E+02	pCi/kg	
2233	662057010	4/9/2024	Cerium-141	1.01E+02	8.97E+01	1.60E+02	pCi/kg	U
2233	662057010	4/9/2024	Cerium-144	1.14E+01	1.12E+02	3.80E+02	pCi/kg	U
2233	662057010	4/9/2024	Cesium-134	5.32E+01	3.39E+01	1.14E+02	pCi/kg	U
2233	662057010	4/9/2024	Cesium-137	7.20E+01	2.79E+01	1.08E+02	pCi/kg	U
2233	662057010	4/9/2024	Chromium-51	5.06E+02	3.06E+02	1.18E+03	pCi/kg	U
2233	662057010	4/9/2024	Cobalt-57	3.30E+00	1.37E+01	4.71E+01	pCi/kg	U
2233	662057010	4/9/2024	Cobalt-58	2.82E+01	2.65E+01	1.01E+02	pCi/kg	U
2233	662057010	4/9/2024	Cobalt-60	-2.50E+01	1.90E+01	5.60E+01	pCi/kg	U
2233	662057010	4/9/2024	Iodine-131	-2.06E+02	2.78E+02	9.16E+02	pCi/kg	U
2233	662057010	4/9/2024	Iron-59	3.26E+01	7.44E+01	2.63E+02	pCi/kg	U
2233	662057010	4/9/2024	Lanthanum-140	5.41E+01	1.40E+02	4.83E+02	pCi/kg	U
2233	662057010	4/9/2024	Lead-210	3.64E+03	9.91E+02	1.26E+03	pCi/kg	UI
2233	662057010	4/9/2024	Lead-212	1.08E+03	8.74E+01	1.10E+02	pCi/kg	
2233	662057010	4/9/2024	Lead-214	7.37E+02	9.51E+01	1.34E+02	pCi/kg	
2233	662057010	4/9/2024	Manganese-54	-6.75E+00	2.51E+01	8.48E+01	pCi/kg	U
2233	662057010	4/9/2024	Molybdenum-99	-1.93E+05	4.04E+05	0.00E+00	pCi/kg	U
2233	662057010	4/9/2024	Niobium-95	-2.51E+00	3.79E+01	1.22E+02	pCi/kg	U
2233	662057010	4/9/2024	Potassium-40	8.53E+03	8.67E+02	6.46E+02	pCi/kg	
2233	662057010	4/9/2024	Radium-226	7.37E+02	9.51E+01	1.34E+02	pCi/kg	
2233	662057010	4/9/2024	Radium-228	1.12E+03	2.08E+02	7.16E+02	pCi/kg	UI
2233	662057010	4/9/2024	Ruthenium-103	-3.03E+01	3.00E+01	9.12E+01	pCi/kg	U
2233	662057010	4/9/2024	Ruthenium-106	-2.00E+02	2.23E+02	6.74E+02	pCi/kg	U
2233	662057010	4/9/2024	Selenium-75	1.57E+01	2.78E+01	9.78E+01	pCi/kg	U
2233	662057010	4/9/2024	Silver-108m	-2.72E+00	1.93E+01	6.55E+01	pCi/kg	U
2233	662057010	4/9/2024	Silver-110m	-1.06E+01	2.95E+01	9.77E+01	pCi/kg	U
2233	662057010	4/9/2024	Strontium-89	3.84E+01	3.16E+01	9.24E+01	pCi/kg	U
2233	662057010	4/9/2024	Strontium-90	2.66E+01	2.84E+01	1.29E+02	pCi/kg	U
2233	662057010	4/9/2024	Tellurium-132	1.32E+04	1.39E+04	5.22E+04	pCi/kg	U
2233	662057010	4/9/2024	Thallium-208	3.56E+02	6.10E+01	6.40E+01	pCi/kg	
2233	662057010	4/9/2024	Thorium-228	1.08E+03	8.74E+01	1.10E+02	pCi/kg	
2233	662057010	4/9/2024	Thorium-230	7.37E+02	9.51E+01	1.34E+02	pCi/kg	
2233	662057010	4/9/2024	Thorium-232	1.12E+03	2.08E+02	7.16E+02	pCi/kg	UI
2233	662057010	4/9/2024	Thorium-234	6.28E+02	1.10E+03	1.59E+03	pCi/kg	U
2233	662057010	4/9/2024	Uranium-234	7.37E+02	9.51E+01	1.34E+02	pCi/kg	
2233	662057010	4/9/2024	Zinc-65	5.94E+01	2.72E+01	1.28E+02	pCi/kg	U
2233	662057010	4/9/2024	Zirconium-95	-6.06E+01	6.00E+01	1.67E+02	pCi/kg	U
2234	662057011	4/9/2024	Actinium-228	7.21E+02	1.48E+02	2.08E+02	pCi/kg	
2234	662057011	4/9/2024	Americium-241	6.37E+01	1.36E+02	4.96E+02	pCi/kg	U
2234	662057011	4/9/2024	Antimony-124	-7.68E+01	4.39E+01	9.13E+01	pCi/kg	U
2234	662057011	4/9/2024	Antimony-125	-4.97E+00	3.90E+01	1.33E+02	pCi/kg	U
2234	662057011	4/9/2024	Barium-140	2.83E+02	2.66E+02	9.62E+02	pCi/kg	U
2234	662057011	4/9/2024	Beryllium-7	7.68E+01	1.54E+02	5.41E+02	pCi/kg	U
2234	662057011	4/9/2024	Bismuth-214	1.05E+03	9.20E+01	8.84E+01	pCi/kg	

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Table 18: Complete REMP Results – Soil (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2234	662057011	4/9/2024	Cerium-141	4.09E+00	4.28E+01	1.51E+02	pCi/kg	U
2234	662057011	4/9/2024	Cerium-144	-6.99E+01	9.25E+01	3.18E+02	pCi/kg	U
2234	662057011	4/9/2024	Cesium-134	6.07E+01	3.66E+01	7.60E+01	pCi/kg	U
2234	662057011	4/9/2024	Cesium-137	6.48E+01	3.33E+01	5.74E+01	pCi/kg	UI
2234	662057011	4/9/2024	Chromium-51	-3.09E+02	2.32E+02	7.69E+02	pCi/kg	U
2234	662057011	4/9/2024	Cobalt-57	2.77E+00	1.08E+01	3.90E+01	pCi/kg	U
2234	662057011	4/9/2024	Cobalt-58	-1.25E+01	1.77E+01	5.64E+01	pCi/kg	U
2234	662057011	4/9/2024	Cobalt-60	-2.45E+01	1.66E+01	4.58E+01	pCi/kg	U
2234	662057011	4/9/2024	Iodine-131	1.88E+02	1.81E+02	6.75E+02	pCi/kg	U
2234	662057011	4/9/2024	Iron-59	-3.52E+01	4.52E+01	1.45E+02	pCi/kg	U
2234	662057011	4/9/2024	Lanthanum-140	-5.49E+01	9.12E+01	2.72E+02	pCi/kg	U
2234	662057011	4/9/2024	Lead-210	-6.56E+03	8.10E+03	3.07E+04	pCi/kg	U
2234	662057011	4/9/2024	Lead-212	1.15E+03	6.83E+01	7.77E+01	pCi/kg	
2234	662057011	4/9/2024	Lead-214	1.45E+03	1.10E+02	9.81E+01	pCi/kg	
2234	662057011	4/9/2024	Manganese-54	2.56E+01	1.57E+01	5.99E+01	pCi/kg	U
2234	662057011	4/9/2024	Molybdenum-99	2.97E+05	2.22E+05	0.00E+00	pCi/kg	UI
2234	662057011	4/9/2024	Niobium-95	8.20E+00	2.57E+01	7.97E+01	pCi/kg	U
2234	662057011	4/9/2024	Potassium-40	6.80E+03	5.12E+02	4.12E+02	pCi/kg	
2234	662057011	4/9/2024	Radium-226	1.45E+03	1.10E+02	9.81E+01	pCi/kg	
2234	662057011	4/9/2024	Radium-228	7.21E+02	1.48E+02	2.08E+02	pCi/kg	
2234	662057011	4/9/2024	Ruthenium-103	-3.82E+00	2.20E+01	7.35E+01	pCi/kg	U
2234	662057011	4/9/2024	Ruthenium-106	5.38E+01	1.06E+02	3.90E+02	pCi/kg	U
2234	662057011	4/9/2024	Selenium-75	-2.42E+01	2.06E+01	6.71E+01	pCi/kg	U
2234	662057011	4/9/2024	Silver-108m	-7.24E-01	1.11E+01	3.79E+01	pCi/kg	U
2234	662057011	4/9/2024	Silver-110m	3.41E+01	2.05E+01	7.93E+01	pCi/kg	U
2234	662057011	4/9/2024	Strontium-89	7.95E+01	4.84E+01	1.42E+02	pCi/kg	U
2234	662057011	4/9/2024	Strontium-90	-1.75E+01	1.83E+01	9.22E+01	pCi/kg	U
2234	662057011	4/9/2024	Tellurium-132	-1.32E+03	9.67E+03	3.57E+04	pCi/kg	U
2234	662057011	4/9/2024	Thallium-208	3.29E+02	4.10E+01	4.73E+01	pCi/kg	
2234	662057011	4/9/2024	Thorium-228	1.15E+03	6.83E+01	7.77E+01	pCi/kg	
2234	662057011	4/9/2024	Thorium-230	1.45E+03	1.10E+02	9.81E+01	pCi/kg	
2234	662057011	4/9/2024	Thorium-232	7.21E+02	1.48E+02	2.08E+02	pCi/kg	
2234	662057011	4/9/2024	Thorium-234	6.52E+03	2.99E+03	3.21E+03	pCi/kg	UI
2234	662057011	4/9/2024	Uranium-234	1.45E+03	1.10E+02	9.81E+01	pCi/kg	
2234	662057011	4/9/2024	Zinc-65	2.81E+01	3.55E+01	1.19E+02	pCi/kg	U
2234	662057011	4/9/2024	Zirconium-95	-1.88E+00	3.66E+01	1.26E+02	pCi/kg	U

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	650211001	1/4/2024	Actinium-228	1.65E+01	3.46E+01	1.15E+02	pCi/kg	U
2126	654190001	2/7/2024	Actinium-228	3.07E+02	7.31E+01	9.82E+01	pCi/kg	

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	657419002	3/6/2024	Actinium-228	9.36E+00	1.41E+01	4.48E+01	pCi/kg	U
2126	660796001	4/3/2024	Actinium-228	-3.39E+01	2.90E+01	6.55E+01	pCi/kg	U
2126	666124001	5/7/2024	Actinium-228	-1.13E+02	6.07E+01	1.53E+02	pCi/kg	U
2126	669757001	6/4/2024	Actinium-228	-1.07E+01	2.18E+01	6.03E+01	pCi/kg	U
2126	673677002	7/6/2024	Actinium-228	8.01E+01	6.58E+01	1.38E+02	pCi/kg	U
2126	679205002	8/7/2024	Actinium-228	1.09E+01	2.61E+01	5.98E+01	pCi/kg	U
2126	683695001	9/2/2024	Actinium-228	8.39E+01	5.50E+01	1.06E+02	pCi/kg	U
2126	687854002	9/30/2024	Actinium-228	3.19E+01	2.77E+01	6.02E+01	pCi/kg	U
2126	693534002	11/6/2024	Actinium-228	8.01E+01	4.07E+01	8.04E+01	pCi/kg	U
2126	698167002	12/2/2024	Actinium-228	6.07E+01	2.82E+01	5.69E+01	pCi/kg	U
2126	650211001	1/4/2024	Americium-241	3.73E+01	5.98E+01	2.11E+02	pCi/kg	U
2126	654190001	2/7/2024	Americium-241	1.31E+02	9.25E+01	2.23E+02	pCi/kg	U
2126	657419002	3/6/2024	Americium-241	-2.65E+00	1.15E+01	3.56E+01	pCi/kg	U
2126	660796001	4/3/2024	Americium-241	4.18E+00	2.16E+01	6.75E+01	pCi/kg	U
2126	666124001	5/7/2024	Americium-241	9.18E+01	6.24E+01	2.15E+02	pCi/kg	U
2126	669757001	6/4/2024	Americium-241	-1.85E+01	2.37E+01	7.46E+01	pCi/kg	U
2126	673677002	7/6/2024	Americium-241	1.85E+01	5.34E+01	1.83E+02	pCi/kg	U
2126	679205002	8/7/2024	Americium-241	1.12E+01	1.60E+01	5.62E+01	pCi/kg	U
2126	683695001	9/2/2024	Americium-241	-1.05E+01	2.44E+01	6.63E+01	pCi/kg	U
2126	687854002	9/30/2024	Americium-241	-2.07E+00	1.46E+01	4.89E+01	pCi/kg	U
2126	693534002	11/6/2024	Americium-241	3.47E+01	2.19E+01	7.22E+01	pCi/kg	U
2126	698167002	12/2/2024	Americium-241	-1.69E+01	2.88E+01	8.74E+01	pCi/kg	U
2126	650211001	1/4/2024	Antimony-124	1.12E+01	1.16E+01	4.62E+01	pCi/kg	U
2126	654190001	2/7/2024	Antimony-124	-6.99E+01	2.36E+01	4.77E+01	pCi/kg	U
2126	657419002	3/6/2024	Antimony-124	-3.69E+00	6.05E+00	1.90E+01	pCi/kg	U
2126	660796001	4/3/2024	Antimony-124	1.01E+01	1.02E+01	3.61E+01	pCi/kg	U
2126	666124001	5/7/2024	Antimony-124	1.93E+01	2.47E+01	8.79E+01	pCi/kg	U
2126	669757001	6/4/2024	Antimony-124	2.53E+00	8.85E+00	3.03E+01	pCi/kg	U
2126	673677002	7/6/2024	Antimony-124	-4.50E+00	1.51E+01	4.70E+01	pCi/kg	U
2126	679205002	8/7/2024	Antimony-124	-8.57E+00	8.75E+00	2.60E+01	pCi/kg	U
2126	683695001	9/2/2024	Antimony-124	4.76E+00	1.75E+01	5.85E+01	pCi/kg	U
2126	687854002	9/30/2024	Antimony-124	6.10E+00	7.80E+00	2.79E+01	pCi/kg	U
2126	693534002	11/6/2024	Antimony-124	-1.37E+01	1.07E+01	3.03E+01	pCi/kg	U
2126	698167002	12/2/2024	Antimony-124	-6.72E+00	9.09E+00	2.77E+01	pCi/kg	U
2126	650211001	1/4/2024	Antimony-125	-5.03E+00	1.82E+01	6.04E+01	pCi/kg	U
2126	654190001	2/7/2024	Antimony-125	-1.28E+01	2.25E+01	7.39E+01	pCi/kg	U
2126	657419002	3/6/2024	Antimony-125	7.67E+00	8.13E+00	2.73E+01	pCi/kg	U
2126	660796001	4/3/2024	Antimony-125	-2.98E+00	1.25E+01	4.01E+01	pCi/kg	U
2126	666124001	5/7/2024	Antimony-125	1.88E+01	2.69E+01	8.89E+01	pCi/kg	U
2126	669757001	6/4/2024	Antimony-125	-1.44E+01	9.71E+00	2.89E+01	pCi/kg	U
2126	673677002	7/6/2024	Antimony-125	3.37E+01	1.77E+01	6.49E+01	pCi/kg	U
2126	679205002	8/7/2024	Antimony-125	2.48E+00	8.46E+00	2.85E+01	pCi/kg	U
2126	683695001	9/2/2024	Antimony-125	-6.88E+00	1.89E+01	5.44E+01	pCi/kg	U
2126	687854002	9/30/2024	Antimony-125	-1.95E+01	9.20E+00	2.78E+01	pCi/kg	U
2126	693534002	11/6/2024	Antimony-125	9.83E+00	1.68E+01	4.75E+01	pCi/kg	U
2126	698167002	12/2/2024	Antimony-125	1.57E+00	8.66E+00	2.93E+01	pCi/kg	U

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	650211001	1/4/2024	Barium-140	-4.66E+01	3.51E+01	1.05E+02	pCi/kg	U
2126	654190001	2/7/2024	Barium-140	-2.18E+01	4.15E+01	1.34E+02	pCi/kg	U
2126	657419002	3/6/2024	Barium-140	3.85E+00	1.54E+01	4.22E+01	pCi/kg	U
2126	660796001	4/3/2024	Barium-140	5.67E+01	3.11E+01	1.10E+02	pCi/kg	U
2126	666124001	5/7/2024	Barium-140	-1.17E+02	4.69E+01	1.31E+02	pCi/kg	U
2126	669757001	6/4/2024	Barium-140	-1.67E+01	2.18E+01	6.65E+01	pCi/kg	U
2126	673677002	7/6/2024	Barium-140	5.67E+01	3.74E+01	1.35E+02	pCi/kg	U
2126	679205002	8/7/2024	Barium-140	2.49E+00	2.21E+01	7.26E+01	pCi/kg	U
2126	683695001	9/2/2024	Barium-140	-1.59E+01	4.35E+01	1.32E+02	pCi/kg	U
2126	687854002	9/30/2024	Barium-140	4.38E+01	2.18E+01	7.94E+01	pCi/kg	U
2126	693534002	11/6/2024	Barium-140	-2.24E+01	3.40E+01	1.10E+02	pCi/kg	U
2126	698167002	12/2/2024	Barium-140	2.89E+01	2.51E+01	8.72E+01	pCi/kg	U
2126	650211001	1/4/2024	Beryllium-7	6.26E+03	2.66E+02	1.59E+02	pCi/kg	
2126	654190001	2/7/2024	Beryllium-7	4.94E+03	2.44E+02	2.31E+02	pCi/kg	
2126	657419002	3/6/2024	Beryllium-7	2.25E+03	9.08E+01	8.58E+01	pCi/kg	
2126	660796001	4/3/2024	Beryllium-7	1.15E+03	1.10E+02	1.53E+02	pCi/kg	
2126	666124001	5/7/2024	Beryllium-7	3.26E+03	2.38E+02	2.93E+02	pCi/kg	
2126	669757001	6/4/2024	Beryllium-7	5.38E+02	7.71E+01	9.88E+01	pCi/kg	
2126	673677002	7/6/2024	Beryllium-7	1.72E+03	1.69E+02	2.07E+02	pCi/kg	
2126	679205002	8/7/2024	Beryllium-7	2.81E+02	6.19E+01	8.76E+01	pCi/kg	
2126	683695001	9/2/2024	Beryllium-7	5.06E+02	1.22E+02	1.81E+02	pCi/kg	
2126	687854002	9/30/2024	Beryllium-7	7.01E+02	7.64E+01	1.02E+02	pCi/kg	
2126	693534002	11/6/2024	Beryllium-7	1.39E+03	1.27E+02	1.43E+02	pCi/kg	
2126	698167002	12/2/2024	Beryllium-7	1.79E+03	8.83E+01	9.10E+01	pCi/kg	
2126	650211001	1/4/2024	Bismuth-214	2.96E+01	2.82E+01	4.96E+01	pCi/kg	U
2126	654190001	2/7/2024	Bismuth-214	1.04E+02	4.92E+01	6.68E+01	pCi/kg	UI
2126	657419002	3/6/2024	Bismuth-214	-5.50E+00	8.35E+00	2.40E+01	pCi/kg	U
2126	660796001	4/3/2024	Bismuth-214	2.31E+01	1.52E+01	3.83E+01	pCi/kg	U
2126	666124001	5/7/2024	Bismuth-214	4.53E+01	3.59E+01	8.40E+01	pCi/kg	U
2126	669757001	6/4/2024	Bismuth-214	-1.92E+01	1.16E+01	2.94E+01	pCi/kg	U
2126	673677002	7/6/2024	Bismuth-214	2.77E+01	2.54E+01	4.48E+01	pCi/kg	U
2126	679205002	8/7/2024	Bismuth-214	2.07E+01	1.36E+01	3.01E+01	pCi/kg	U
2126	683695001	9/2/2024	Bismuth-214	-5.95E+00	1.75E+01	5.03E+01	pCi/kg	U
2126	687854002	9/30/2024	Bismuth-214	2.53E+01	1.48E+01	2.61E+01	pCi/kg	U
2126	693534002	11/6/2024	Bismuth-214	6.71E+00	2.18E+01	4.06E+01	pCi/kg	U
2126	698167002	12/2/2024	Bismuth-214	1.93E-01	1.65E+01	2.17E+01	pCi/kg	U
2126	650211001	1/4/2024	Cerium-141	-1.86E+00	1.08E+01	3.24E+01	pCi/kg	U
2126	654190001	2/7/2024	Cerium-141	-1.31E+01	1.64E+01	4.78E+01	pCi/kg	U
2126	657419002	3/6/2024	Cerium-141	-8.99E+00	4.01E+00	1.26E+01	pCi/kg	U
2126	660796001	4/3/2024	Cerium-141	1.94E+01	1.78E+01	2.37E+01	pCi/kg	U
2126	666124001	5/7/2024	Cerium-141	3.63E+01	2.17E+01	3.61E+01	pCi/kg	UI
2126	669757001	6/4/2024	Cerium-141	-2.21E+01	7.65E+00	1.90E+01	pCi/kg	U
2126	673677002	7/6/2024	Cerium-141	-3.42E-01	1.13E+01	3.65E+01	pCi/kg	U
2126	679205002	8/7/2024	Cerium-141	-1.47E+01	6.45E+00	1.67E+01	pCi/kg	U
2126	683695001	9/2/2024	Cerium-141	3.86E+00	1.13E+01	3.37E+01	pCi/kg	U
2126	687854002	9/30/2024	Cerium-141	1.24E+01	1.13E+01	1.74E+01	pCi/kg	U

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	693534002	11/6/2024	Cerium-141	-1.51E-01	8.63E+00	2.58E+01	pCi/kg	U
2126	698167002	12/2/2024	Cerium-141	3.56E+00	1.34E+01	2.05E+01	pCi/kg	U
2126	650211001	1/4/2024	Cerium-144	1.51E+00	4.19E+01	1.38E+02	pCi/kg	U
2126	654190001	2/7/2024	Cerium-144	1.57E+02	6.62E+01	1.56E+02	pCi/kg	UI
2126	657419002	3/6/2024	Cerium-144	-1.39E+01	1.56E+01	5.14E+01	pCi/kg	U
2126	660796001	4/3/2024	Cerium-144	-3.42E+00	2.55E+01	8.27E+01	pCi/kg	U
2126	666124001	5/7/2024	Cerium-144	-8.60E+01	5.06E+01	1.51E+02	pCi/kg	U
2126	669757001	6/4/2024	Cerium-144	-1.39E+01	2.29E+01	6.99E+01	pCi/kg	U
2126	673677002	7/6/2024	Cerium-144	3.87E+01	3.90E+01	1.32E+02	pCi/kg	U
2126	679205002	8/7/2024	Cerium-144	-1.05E+01	1.70E+01	5.43E+01	pCi/kg	U
2126	683695001	9/2/2024	Cerium-144	-3.62E+01	3.13E+01	9.33E+01	pCi/kg	U
2126	687854002	9/30/2024	Cerium-144	-1.53E+01	1.79E+01	5.60E+01	pCi/kg	U
2126	693534002	11/6/2024	Cerium-144	2.40E+01	2.61E+01	8.71E+01	pCi/kg	U
2126	698167002	12/2/2024	Cerium-144	1.68E+01	2.03E+01	6.71E+01	pCi/kg	U
2126	650211001	1/4/2024	Cesium-134	7.26E-02	7.41E+00	2.40E+01	pCi/kg	U
2126	654190001	2/7/2024	Cesium-134	5.13E+00	1.02E+01	3.41E+01	pCi/kg	U
2126	657419002	3/6/2024	Cesium-134	-3.89E+00	3.75E+00	1.14E+01	pCi/kg	U
2126	660796001	4/3/2024	Cesium-134	7.15E+00	5.37E+00	1.84E+01	pCi/kg	U
2126	666124001	5/7/2024	Cesium-134	1.69E+01	1.13E+01	4.00E+01	pCi/kg	U
2126	669757001	6/4/2024	Cesium-134	1.64E+00	3.88E+00	1.33E+01	pCi/kg	U
2126	673677002	7/6/2024	Cesium-134	1.56E+01	7.70E+00	2.83E+01	pCi/kg	U
2126	679205002	8/7/2024	Cesium-134	6.29E-01	3.12E+00	1.07E+01	pCi/kg	U
2126	683695001	9/2/2024	Cesium-134	5.42E+00	7.79E+00	2.38E+01	pCi/kg	U
2126	687854002	9/30/2024	Cesium-134	5.50E+00	4.48E+00	1.49E+01	pCi/kg	U
2126	693534002	11/6/2024	Cesium-134	-1.01E+01	5.51E+00	1.60E+01	pCi/kg	U
2126	698167002	12/2/2024	Cesium-134	6.20E+00	3.66E+00	1.29E+01	pCi/kg	U
2126	650211001	1/4/2024	Cesium-137	4.13E+00	9.09E+00	3.04E+01	pCi/kg	U
2126	654190001	2/7/2024	Cesium-137	-3.77E-01	1.35E+01	3.93E+01	pCi/kg	U
2126	657419002	3/6/2024	Cesium-137	-1.43E+00	3.72E+00	1.02E+01	pCi/kg	U
2126	660796001	4/3/2024	Cesium-137	4.37E+00	4.81E+00	1.64E+01	pCi/kg	U
2126	666124001	5/7/2024	Cesium-137	-1.02E+01	1.06E+01	3.23E+01	pCi/kg	U
2126	669757001	6/4/2024	Cesium-137	7.80E+00	5.60E+00	1.41E+01	pCi/kg	U
2126	673677002	7/6/2024	Cesium-137	1.11E+01	7.17E+00	2.57E+01	pCi/kg	U
2126	679205002	8/7/2024	Cesium-137	-7.61E+00	4.45E+00	9.89E+00	pCi/kg	U
2126	683695001	9/2/2024	Cesium-137	8.80E+00	1.31E+01	1.99E+01	pCi/kg	U
2126	687854002	9/30/2024	Cesium-137	-1.98E+00	3.63E+00	1.14E+01	pCi/kg	U
2126	693534002	11/6/2024	Cesium-137	7.60E+00	5.41E+00	1.88E+01	pCi/kg	U
2126	698167002	12/2/2024	Cesium-137	5.37E+00	3.48E+00	1.22E+01	pCi/kg	U
2126	650211001	1/4/2024	Chromium-51	1.07E+02	6.53E+01	2.27E+02	pCi/kg	U
2126	654190001	2/7/2024	Chromium-51	-1.16E+01	8.31E+01	2.84E+02	pCi/kg	U
2126	657419002	3/6/2024	Chromium-51	7.18E+00	2.52E+01	8.33E+01	pCi/kg	U
2126	660796001	4/3/2024	Chromium-51	2.49E+01	4.84E+01	1.68E+02	pCi/kg	U
2126	666124001	5/7/2024	Chromium-51	3.38E+01	8.81E+01	2.94E+02	pCi/kg	U
2126	669757001	6/4/2024	Chromium-51	-1.71E+01	3.64E+01	1.18E+02	pCi/kg	U
2126	673677002	7/6/2024	Chromium-51	-7.16E+01	7.81E+01	2.22E+02	pCi/kg	U
2126	679205002	8/7/2024	Chromium-51	4.53E+01	3.05E+01	1.10E+02	pCi/kg	U

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	683695001	9/2/2024	Chromium-51	-9.18E+00	5.50E+01	1.84E+02	pCi/kg	U
2126	687854002	9/30/2024	Chromium-51	-4.72E+01	3.87E+01	1.12E+02	pCi/kg	U
2126	693534002	11/6/2024	Chromium-51	1.07E+02	6.48E+01	1.58E+02	pCi/kg	U
2126	698167002	12/2/2024	Chromium-51	5.90E+01	7.01E+01	1.16E+02	pCi/kg	U
2126	650211001	1/4/2024	Cobalt-57	-5.33E+00	5.85E+00	1.76E+01	pCi/kg	U
2126	654190001	2/7/2024	Cobalt-57	4.92E+00	6.71E+00	2.25E+01	pCi/kg	U
2126	657419002	3/6/2024	Cobalt-57	-1.84E+00	2.04E+00	6.75E+00	pCi/kg	U
2126	660796001	4/3/2024	Cobalt-57	3.97E+00	3.27E+00	1.10E+01	pCi/kg	U
2126	666124001	5/7/2024	Cobalt-57	-2.84E+00	6.29E+00	2.00E+01	pCi/kg	U
2126	669757001	6/4/2024	Cobalt-57	-2.56E-02	3.21E+00	1.01E+01	pCi/kg	U
2126	673677002	7/6/2024	Cobalt-57	7.08E-01	5.25E+00	1.73E+01	pCi/kg	U
2126	679205002	8/7/2024	Cobalt-57	-4.03E-01	2.11E+00	6.90E+00	pCi/kg	U
2126	683695001	9/2/2024	Cobalt-57	3.35E+00	4.74E+00	1.56E+01	pCi/kg	U
2126	687854002	9/30/2024	Cobalt-57	3.82E+00	2.52E+00	8.65E+00	pCi/kg	U
2126	693534002	11/6/2024	Cobalt-57	-1.81E+00	3.58E+00	1.15E+01	pCi/kg	U
2126	698167002	12/2/2024	Cobalt-57	-5.99E+00	3.66E+00	8.52E+00	pCi/kg	U
2126	650211001	1/4/2024	Cobalt-58	-3.67E-01	6.47E+00	2.08E+01	pCi/kg	U
2126	654190001	2/7/2024	Cobalt-58	3.88E+00	9.02E+00	2.99E+01	pCi/kg	U
2126	657419002	3/6/2024	Cobalt-58	3.72E+00	3.07E+00	1.09E+01	pCi/kg	U
2126	660796001	4/3/2024	Cobalt-58	-1.05E+01	5.54E+00	1.64E+01	pCi/kg	U
2126	666124001	5/7/2024	Cobalt-58	-9.44E-01	1.05E+01	3.53E+01	pCi/kg	U
2126	669757001	6/4/2024	Cobalt-58	4.19E+00	4.59E+00	1.51E+01	pCi/kg	U
2126	673677002	7/6/2024	Cobalt-58	-5.57E+00	8.04E+00	2.14E+01	pCi/kg	U
2126	679205002	8/7/2024	Cobalt-58	-6.99E-01	3.75E+00	1.25E+01	pCi/kg	U
2126	683695001	9/2/2024	Cobalt-58	8.81E+00	6.24E+00	2.24E+01	pCi/kg	U
2126	687854002	9/30/2024	Cobalt-58	-5.61E+00	4.25E+00	1.05E+01	pCi/kg	U
2126	693534002	11/6/2024	Cobalt-58	-1.23E+01	7.34E+00	1.61E+01	pCi/kg	U
2126	698167002	12/2/2024	Cobalt-58	-4.23E+00	3.58E+00	1.07E+01	pCi/kg	U
2126	650211001	1/4/2024	Cobalt-60	-1.00E+01	7.50E+00	1.99E+01	pCi/kg	U
2126	654190001	2/7/2024	Cobalt-60	-2.34E+01	1.21E+01	3.39E+01	pCi/kg	U
2126	657419002	3/6/2024	Cobalt-60	1.86E-01	3.48E+00	1.13E+01	pCi/kg	U
2126	660796001	4/3/2024	Cobalt-60	6.35E+00	4.67E+00	1.69E+01	pCi/kg	U
2126	666124001	5/7/2024	Cobalt-60	-1.03E+01	1.29E+01	4.03E+01	pCi/kg	U
2126	669757001	6/4/2024	Cobalt-60	3.76E+00	4.93E+00	1.68E+01	pCi/kg	U
2126	673677002	7/6/2024	Cobalt-60	-2.98E+01	9.17E+00	2.37E+01	pCi/kg	U
2126	679205002	8/7/2024	Cobalt-60	1.01E+01	4.87E+00	1.46E+01	pCi/kg	U
2126	683695001	9/2/2024	Cobalt-60	-2.17E+00	8.48E+00	2.72E+01	pCi/kg	U
2126	687854002	9/30/2024	Cobalt-60	2.50E+00	4.05E+00	1.41E+01	pCi/kg	U
2126	693534002	11/6/2024	Cobalt-60	1.05E+00	4.93E+00	1.68E+01	pCi/kg	U
2126	698167002	12/2/2024	Cobalt-60	-2.14E+01	6.88E+00	1.32E+01	pCi/kg	U
2126	650211001	1/4/2024	Iodine-131	2.66E+00	1.24E+01	4.28E+01	pCi/kg	U
2126	654190001	2/7/2024	Iodine-131	-1.37E+00	1.90E+01	5.50E+01	pCi/kg	U
2126	657419002	3/6/2024	Iodine-131	1.79E+00	4.99E+00	1.65E+01	pCi/kg	U
2126	660796001	4/3/2024	Iodine-131	-1.31E+01	1.37E+01	4.07E+01	pCi/kg	U
2126	666124001	5/7/2024	Iodine-131	9.19E+00	1.78E+01	5.90E+01	pCi/kg	U
2126	669757001	6/4/2024	Iodine-131	-4.60E+00	7.35E+00	2.34E+01	pCi/kg	U

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	673677002	7/6/2024	Iodine-131	-2.71E+01	1.72E+01	4.70E+01	pCi/kg	U
2126	679205002	8/7/2024	Iodine-131	-7.07E+00	8.07E+00	2.61E+01	pCi/kg	U
2126	683695001	9/2/2024	Iodine-131	1.24E+01	1.43E+01	4.98E+01	pCi/kg	U
2126	687854002	9/30/2024	Iodine-131	3.49E+01	1.80E+01	2.59E+01	pCi/kg	UI
2126	693534002	11/6/2024	Iodine-131	-1.75E+01	1.78E+01	4.70E+01	pCi/kg	U
2126	698167002	12/2/2024	Iodine-131	3.78E+00	1.04E+01	3.58E+01	pCi/kg	U
2126	650211001	1/4/2024	Iron-59	6.59E+00	1.13E+01	4.11E+01	pCi/kg	U
2126	654190001	2/7/2024	Iron-59	1.28E+01	1.81E+01	6.42E+01	pCi/kg	U
2126	657419002	3/6/2024	Iron-59	-7.30E+00	7.49E+00	2.31E+01	pCi/kg	U
2126	660796001	4/3/2024	Iron-59	-7.60E+00	1.09E+01	3.59E+01	pCi/kg	U
2126	666124001	5/7/2024	Iron-59	5.05E+01	2.35E+01	8.89E+01	pCi/kg	U
2126	669757001	6/4/2024	Iron-59	-4.13E+00	1.04E+01	3.28E+01	pCi/kg	U
2126	673677002	7/6/2024	Iron-59	-7.30E+00	1.69E+01	5.54E+01	pCi/kg	U
2126	679205002	8/7/2024	Iron-59	-5.01E+00	1.02E+01	3.25E+01	pCi/kg	U
2126	683695001	9/2/2024	Iron-59	-3.55E+01	1.66E+01	4.52E+01	pCi/kg	U
2126	687854002	9/30/2024	Iron-59	1.66E-02	8.73E+00	2.94E+01	pCi/kg	U
2126	693534002	11/6/2024	Iron-59	-9.35E+00	1.02E+01	3.27E+01	pCi/kg	U
2126	698167002	12/2/2024	Iron-59	-1.86E+00	8.60E+00	2.88E+01	pCi/kg	U
2126	650211001	1/4/2024	Lanthanum-140	5.12E+00	8.51E+00	3.13E+01	pCi/kg	U
2126	654190001	2/7/2024	Lanthanum-140	-2.83E+01	1.48E+01	3.64E+01	pCi/kg	U
2126	657419002	3/6/2024	Lanthanum-140	-1.48E+00	4.47E+00	1.38E+01	pCi/kg	U
2126	660796001	4/3/2024	Lanthanum-140	-4.10E+00	8.14E+00	2.56E+01	pCi/kg	U
2126	666124001	5/7/2024	Lanthanum-140	3.45E+00	1.92E+01	6.42E+01	pCi/kg	U
2126	669757001	6/4/2024	Lanthanum-140	-4.05E+00	6.88E+00	2.16E+01	pCi/kg	U
2126	673677002	7/6/2024	Lanthanum-140	-8.60E+00	1.27E+01	3.81E+01	pCi/kg	U
2126	679205002	8/7/2024	Lanthanum-140	-2.02E+00	9.06E+00	2.98E+01	pCi/kg	U
2126	683695001	9/2/2024	Lanthanum-140	1.17E+01	1.12E+01	4.16E+01	pCi/kg	U
2126	687854002	9/30/2024	Lanthanum-140	-2.77E-01	6.33E+00	1.99E+01	pCi/kg	U
2126	693534002	11/6/2024	Lanthanum-140	-4.20E-02	1.06E+01	3.48E+01	pCi/kg	U
2126	698167002	12/2/2024	Lanthanum-140	2.51E+01	1.17E+01	2.76E+01	pCi/kg	U
2126	650211001	1/4/2024	Lead-210	3.29E+03	3.00E+03	1.02E+04	pCi/kg	U
2126	654190001	2/7/2024	Lead-210	5.96E+02	5.20E+03	1.09E+04	pCi/kg	U
2126	657419002	3/6/2024	Lead-210	3.87E+01	2.73E+02	7.60E+02	pCi/kg	U
2126	660796001	4/3/2024	Lead-210	-8.23E+02	9.32E+02	1.99E+03	pCi/kg	U
2126	666124001	5/7/2024	Lead-210	1.77E+02	2.81E+03	9.84E+03	pCi/kg	U
2126	669757001	6/4/2024	Lead-210	1.04E+02	1.02E+03	2.89E+03	pCi/kg	U
2126	673677002	7/6/2024	Lead-210	2.43E+03	2.65E+03	9.32E+03	pCi/kg	U
2126	679205002	8/7/2024	Lead-210	1.45E+03	8.41E+02	1.67E+03	pCi/kg	U
2126	683695001	9/2/2024	Lead-210	-2.73E+02	5.65E+02	1.66E+03	pCi/kg	U
2126	687854002	9/30/2024	Lead-210	8.49E+02	1.02E+03	1.28E+03	pCi/kg	U
2126	693534002	11/6/2024	Lead-210	1.38E+03	1.07E+03	1.43E+03	pCi/kg	U
2126	698167002	12/2/2024	Lead-210	-2.25E+03	1.85E+03	4.25E+03	pCi/kg	U
2126	650211001	1/4/2024	Lead-212	3.68E+01	2.69E+01	5.48E+01	pCi/kg	U
2126	654190001	2/7/2024	Lead-212	2.15E+02	3.41E+01	5.28E+01	pCi/kg	U
2126	657419002	3/6/2024	Lead-212	1.23E+01	9.10E+00	1.47E+01	pCi/kg	U
2126	660796001	4/3/2024	Lead-212	1.81E+01	1.73E+01	2.96E+01	pCi/kg	U

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Company: Tennessee Valley Authority		Plant: Sequoyah	

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	666124001	5/7/2024	Lead-212	-1.87E+01	2.12E+01	5.99E+01	pCi/kg	U
2126	669757001	6/4/2024	Lead-212	2.61E+01	1.43E+01	2.78E+01	pCi/kg	U
2126	673677002	7/6/2024	Lead-212	1.70E+01	2.30E+01	5.39E+01	pCi/kg	U
2126	679205002	8/7/2024	Lead-212	3.49E-01	1.20E+01	2.11E+01	pCi/kg	U
2126	683695001	9/2/2024	Lead-212	-6.25E+00	1.48E+01	4.38E+01	pCi/kg	U
2126	687854002	9/30/2024	Lead-212	2.49E+01	1.27E+01	2.64E+01	pCi/kg	U
2126	693534002	11/6/2024	Lead-212	1.84E+00	1.59E+01	3.24E+01	pCi/kg	U
2126	698167002	12/2/2024	Lead-212	-7.25E+00	8.72E+00	2.38E+01	pCi/kg	U
2126	650211001	1/4/2024	Lead-214	5.96E+01	2.94E+01	7.71E+01	pCi/kg	U
2126	654190001	2/7/2024	Lead-214	3.20E+02	4.66E+01	6.46E+01	pCi/kg	
2126	657419002	3/6/2024	Lead-214	3.49E+01	1.55E+01	2.54E+01	pCi/kg	UI
2126	660796001	4/3/2024	Lead-214	-1.71E+01	1.48E+01	3.58E+01	pCi/kg	U
2126	666124001	5/7/2024	Lead-214	9.02E+00	2.16E+01	7.15E+01	pCi/kg	U
2126	669757001	6/4/2024	Lead-214	1.17E+01	1.74E+01	3.18E+01	pCi/kg	U
2126	673677002	7/6/2024	Lead-214	3.86E+01	3.24E+01	6.19E+01	pCi/kg	U
2126	679205002	8/7/2024	Lead-214	-8.34E-01	9.14E+00	2.58E+01	pCi/kg	U
2126	683695001	9/2/2024	Lead-214	3.99E+01	2.70E+01	5.52E+01	pCi/kg	U
2126	687854002	9/30/2024	Lead-214	1.18E+01	1.48E+01	2.94E+01	pCi/kg	U
2126	693534002	11/6/2024	Lead-214	-2.45E+01	1.53E+01	3.89E+01	pCi/kg	U
2126	698167002	12/2/2024	Lead-214	-1.45E+01	1.15E+01	2.84E+01	pCi/kg	U
2126	650211001	1/4/2024	Manganese-54	-4.52E+00	6.94E+00	2.07E+01	pCi/kg	U
2126	654190001	2/7/2024	Manganese-54	1.52E+01	1.01E+01	3.03E+01	pCi/kg	U
2126	657419002	3/6/2024	Manganese-54	-1.15E-01	2.88E+00	9.58E+00	pCi/kg	U
2126	660796001	4/3/2024	Manganese-54	-2.76E+00	5.24E+00	1.65E+01	pCi/kg	U
2126	666124001	5/7/2024	Manganese-54	9.85E+00	1.01E+01	3.60E+01	pCi/kg	U
2126	669757001	6/4/2024	Manganese-54	-2.51E+00	4.14E+00	1.33E+01	pCi/kg	U
2126	673677002	7/6/2024	Manganese-54	-3.27E+00	7.48E+00	2.33E+01	pCi/kg	U
2126	679205002	8/7/2024	Manganese-54	3.89E+00	3.65E+00	1.30E+01	pCi/kg	U
2126	683695001	9/2/2024	Manganese-54	6.12E+00	6.39E+00	2.31E+01	pCi/kg	U
2126	687854002	9/30/2024	Manganese-54	9.89E+00	4.40E+00	1.48E+01	pCi/kg	U
2126	693534002	11/6/2024	Manganese-54	8.86E+00	5.21E+00	1.83E+01	pCi/kg	U
2126	698167002	12/2/2024	Manganese-54	6.56E+00	6.16E+00	1.08E+01	pCi/kg	U
2126	650211001	1/4/2024	Molybdenum-99	-1.63E+02	2.96E+02	9.14E+02	pCi/kg	U
2126	654190001	2/7/2024	Molybdenum-99	-3.02E+02	4.87E+02	1.51E+03	pCi/kg	U
2126	657419002	3/6/2024	Molybdenum-99	-1.33E+02	1.10E+02	3.40E+02	pCi/kg	U
2126	660796001	4/3/2024	Molybdenum-99	1.24E+03	8.80E+02	3.02E+03	pCi/kg	U
2126	666124001	5/7/2024	Molybdenum-99	-1.12E+03	5.76E+02	1.56E+03	pCi/kg	U
2126	669757001	6/4/2024	Molybdenum-99	1.96E+02	2.60E+02	9.06E+02	pCi/kg	U
2126	673677002	7/6/2024	Molybdenum-99	4.11E+02	5.79E+02	1.98E+03	pCi/kg	U
2126	679205002	8/7/2024	Molybdenum-99	7.05E+01	5.80E+02	1.86E+03	pCi/kg	U
2126	683695001	9/2/2024	Molybdenum-99	6.49E+02	6.83E+02	2.34E+03	pCi/kg	U
2126	687854002	9/30/2024	Molybdenum-99	3.51E+02	4.65E+02	1.57E+03	pCi/kg	U
2126	693534002	11/6/2024	Molybdenum-99	-3.48E+02	1.16E+03	3.72E+03	pCi/kg	U
2126	698167002	12/2/2024	Molybdenum-99	4.00E+02	9.41E+02	3.12E+03	pCi/kg	U
2126	650211001	1/4/2024	Niobium-95	1.47E+01	1.25E+01	2.29E+01	pCi/kg	U
2126	654190001	2/7/2024	Niobium-95	-1.44E+01	9.78E+00	2.86E+01	pCi/kg	U

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Company: Tennessee Valley Authority		Plant: Sequoyah	

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	657419002	3/6/2024	Niobium-95	1.20E+00	3.03E+00	1.04E+01	pCi/kg	U
2126	660796001	4/3/2024	Niobium-95	7.99E-01	5.24E+00	1.71E+01	pCi/kg	U
2126	666124001	5/7/2024	Niobium-95	6.60E+00	1.07E+01	3.59E+01	pCi/kg	U
2126	669757001	6/4/2024	Niobium-95	-1.50E+00	4.05E+00	1.33E+01	pCi/kg	U
2126	673677002	7/6/2024	Niobium-95	-1.24E+01	9.28E+00	2.31E+01	pCi/kg	U
2126	679205002	8/7/2024	Niobium-95	-8.65E+00	4.35E+00	1.12E+01	pCi/kg	U
2126	683695001	9/2/2024	Niobium-95	-5.43E+00	8.28E+00	2.44E+01	pCi/kg	U
2126	687854002	9/30/2024	Niobium-95	3.41E+00	3.82E+00	1.31E+01	pCi/kg	U
2126	693534002	11/6/2024	Niobium-95	-1.87E+00	7.40E+00	2.00E+01	pCi/kg	U
2126	698167002	12/2/2024	Niobium-95	8.28E-01	3.91E+00	1.28E+01	pCi/kg	U
2126	650211001	1/4/2024	Potassium-40	2.01E+03	2.27E+02	1.73E+02	pCi/kg	
2126	654190001	2/7/2024	Potassium-40	2.22E+03	2.98E+02	2.35E+02	pCi/kg	
2126	657419002	3/6/2024	Potassium-40	3.62E+03	1.47E+02	8.08E+01	pCi/kg	
2126	660796001	4/3/2024	Potassium-40	5.76E+03	2.09E+02	1.39E+02	pCi/kg	
2126	666124001	5/7/2024	Potassium-40	7.45E+03	4.61E+02	3.26E+02	pCi/kg	UI
2126	669757001	6/4/2024	Potassium-40	4.77E+03	2.14E+02	1.22E+02	pCi/kg	
2126	673677002	7/6/2024	Potassium-40	5.79E+03	3.34E+02	1.80E+02	pCi/kg	
2126	679205002	8/7/2024	Potassium-40	5.41E+03	2.06E+02	1.17E+02	pCi/kg	
2126	683695001	9/2/2024	Potassium-40	7.04E+03	3.59E+02	1.92E+02	pCi/kg	
2126	687854002	9/30/2024	Potassium-40	6.11E+03	2.12E+02	1.02E+02	pCi/kg	
2126	693534002	11/6/2024	Potassium-40	3.64E+03	2.09E+02	1.65E+02	pCi/kg	
2126	698167002	12/2/2024	Potassium-40	3.05E+03	1.63E+02	9.61E+01	pCi/kg	
2126	650211001	1/4/2024	Radium-226	5.96E+01	2.94E+01	7.71E+01	pCi/kg	U
2126	654190001	2/7/2024	Radium-226	3.20E+02	4.66E+01	6.46E+01	pCi/kg	
2126	657419002	3/6/2024	Radium-226	3.49E+01	1.55E+01	2.54E+01	pCi/kg	UI
2126	660796001	4/3/2024	Radium-226	-1.71E+01	1.48E+01	3.58E+01	pCi/kg	U
2126	666124001	5/7/2024	Radium-226	9.02E+00	2.16E+01	7.15E+01	pCi/kg	U
2126	669757001	6/4/2024	Radium-226	1.17E+01	1.74E+01	3.18E+01	pCi/kg	U
2126	673677002	7/6/2024	Radium-226	3.86E+01	3.24E+01	6.19E+01	pCi/kg	U
2126	679205002	8/7/2024	Radium-226	-8.34E-01	9.14E+00	2.58E+01	pCi/kg	U
2126	683695001	9/2/2024	Radium-226	3.99E+01	2.70E+01	5.52E+01	pCi/kg	U
2126	687854002	9/30/2024	Radium-226	1.18E+01	1.48E+01	2.94E+01	pCi/kg	U
2126	693534002	11/6/2024	Radium-226	-2.45E+01	1.53E+01	3.89E+01	pCi/kg	U
2126	698167002	12/2/2024	Radium-226	-1.45E+01	1.15E+01	2.84E+01	pCi/kg	U
2126	650211001	1/4/2024	Radium-228	1.65E+01	3.46E+01	1.15E+02	pCi/kg	U
2126	654190001	2/7/2024	Radium-228	3.07E+02	7.31E+01	9.82E+01	pCi/kg	
2126	657419002	3/6/2024	Radium-228	9.36E+00	1.41E+01	4.48E+01	pCi/kg	U
2126	660796001	4/3/2024	Radium-228	-3.39E+01	2.90E+01	6.55E+01	pCi/kg	U
2126	666124001	5/7/2024	Radium-228	-1.13E+02	6.07E+01	1.53E+02	pCi/kg	U
2126	669757001	6/4/2024	Radium-228	-1.07E+01	2.18E+01	6.03E+01	pCi/kg	U
2126	673677002	7/6/2024	Radium-228	8.01E+01	6.58E+01	1.38E+02	pCi/kg	U
2126	679205002	8/7/2024	Radium-228	1.09E+01	2.61E+01	5.98E+01	pCi/kg	U
2126	683695001	9/2/2024	Radium-228	8.39E+01	5.50E+01	1.06E+02	pCi/kg	U
2126	687854002	9/30/2024	Radium-228	3.19E+01	2.77E+01	6.02E+01	pCi/kg	U
2126	693534002	11/6/2024	Radium-228	8.01E+01	4.07E+01	8.04E+01	pCi/kg	U
2126	698167002	12/2/2024	Radium-228	6.07E+01	2.82E+01	5.69E+01	pCi/kg	UI

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	650211001	1/4/2024	Ruthenium-103	-9.31E-01	6.26E+00	2.07E+01	pCi/kg	U
2126	654190001	2/7/2024	Ruthenium-103	6.69E+00	8.71E+00	3.02E+01	pCi/kg	U
2126	657419002	3/6/2024	Ruthenium-103	-2.80E+00	2.84E+00	8.55E+00	pCi/kg	U
2126	660796001	4/3/2024	Ruthenium-103	-1.31E+01	7.22E+00	1.59E+01	pCi/kg	U
2126	666124001	5/7/2024	Ruthenium-103	-7.29E+00	9.84E+00	3.18E+01	pCi/kg	U
2126	669757001	6/4/2024	Ruthenium-103	6.47E-01	3.87E+00	1.25E+01	pCi/kg	U
2126	673677002	7/6/2024	Ruthenium-103	-1.82E+00	7.54E+00	2.49E+01	pCi/kg	U
2126	679205002	8/7/2024	Ruthenium-103	-4.31E+00	3.30E+00	9.96E+00	pCi/kg	U
2126	683695001	9/2/2024	Ruthenium-103	-5.97E+00	6.58E+00	2.03E+01	pCi/kg	U
2126	687854002	9/30/2024	Ruthenium-103	-1.98E+00	3.40E+00	1.09E+01	pCi/kg	U
2126	693534002	11/6/2024	Ruthenium-103	8.08E+00	5.21E+00	1.85E+01	pCi/kg	U
2126	698167002	12/2/2024	Ruthenium-103	6.03E+00	3.82E+00	1.35E+01	pCi/kg	U
2126	650211001	1/4/2024	Ruthenium-106	6.35E+01	5.79E+01	2.10E+02	pCi/kg	U
2126	654190001	2/7/2024	Ruthenium-106	-5.24E+01	7.92E+01	2.50E+02	pCi/kg	U
2126	657419002	3/6/2024	Ruthenium-106	-2.33E+01	2.59E+01	8.38E+01	pCi/kg	U
2126	660796001	4/3/2024	Ruthenium-106	1.25E+01	4.09E+01	1.37E+02	pCi/kg	U
2126	666124001	5/7/2024	Ruthenium-106	1.31E+00	9.67E+01	3.18E+02	pCi/kg	U
2126	669757001	6/4/2024	Ruthenium-106	1.61E+01	3.31E+01	1.15E+02	pCi/kg	U
2126	673677002	7/6/2024	Ruthenium-106	-9.25E+01	6.48E+01	1.95E+02	pCi/kg	U
2126	679205002	8/7/2024	Ruthenium-106	7.61E+01	5.05E+01	9.19E+01	pCi/kg	U
2126	683695001	9/2/2024	Ruthenium-106	-3.41E+01	5.87E+01	1.81E+02	pCi/kg	U
2126	687854002	9/30/2024	Ruthenium-106	7.68E+00	3.12E+01	1.04E+02	pCi/kg	U
2126	693534002	11/6/2024	Ruthenium-106	2.63E+01	4.64E+01	1.42E+02	pCi/kg	U
2126	698167002	12/2/2024	Ruthenium-106	-5.38E+01	2.95E+01	8.80E+01	pCi/kg	U
2126	650211001	1/4/2024	Selenium-75	-1.90E+00	1.04E+01	3.24E+01	pCi/kg	U
2126	654190001	2/7/2024	Selenium-75	-2.39E+01	1.27E+01	3.67E+01	pCi/kg	U
2126	657419002	3/6/2024	Selenium-75	-2.46E+00	3.66E+00	1.18E+01	pCi/kg	U
2126	660796001	4/3/2024	Selenium-75	4.13E+00	6.14E+00	1.96E+01	pCi/kg	U
2126	666124001	5/7/2024	Selenium-75	9.18E+00	1.19E+01	4.10E+01	pCi/kg	U
2126	669757001	6/4/2024	Selenium-75	-5.13E+00	4.93E+00	1.42E+01	pCi/kg	U
2126	673677002	7/6/2024	Selenium-75	7.12E+00	8.94E+00	2.71E+01	pCi/kg	U
2126	679205002	8/7/2024	Selenium-75	2.39E+00	4.02E+00	1.29E+01	pCi/kg	U
2126	683695001	9/2/2024	Selenium-75	7.94E-01	7.72E+00	2.64E+01	pCi/kg	U
2126	687854002	9/30/2024	Selenium-75	-1.14E+00	4.53E+00	1.40E+01	pCi/kg	U
2126	693534002	11/6/2024	Selenium-75	7.02E+00	6.19E+00	2.02E+01	pCi/kg	U
2126	698167002	12/2/2024	Selenium-75	-1.26E+00	4.77E+00	1.47E+01	pCi/kg	U
2126	650211001	1/4/2024	Silver-108m	-4.99E+00	6.02E+00	1.92E+01	pCi/kg	U
2126	654190001	2/7/2024	Silver-108m	6.96E+00	7.56E+00	2.65E+01	pCi/kg	U
2126	657419002	3/6/2024	Silver-108m	-4.25E+00	2.49E+00	7.30E+00	pCi/kg	U
2126	660796001	4/3/2024	Silver-108m	6.15E+00	8.06E+00	1.62E+01	pCi/kg	U
2126	666124001	5/7/2024	Silver-108m	-1.08E+01	8.53E+00	2.50E+01	pCi/kg	U
2126	669757001	6/4/2024	Silver-108m	3.27E+00	3.30E+00	1.12E+01	pCi/kg	U
2126	673677002	7/6/2024	Silver-108m	-9.31E+00	5.96E+00	1.86E+01	pCi/kg	U
2126	679205002	8/7/2024	Silver-108m	3.00E+00	2.57E+00	9.05E+00	pCi/kg	U
2126	683695001	9/2/2024	Silver-108m	-3.43E+00	6.06E+00	1.71E+01	pCi/kg	U
2126	687854002	9/30/2024	Silver-108m	-5.33E+00	3.05E+00	9.39E+00	pCi/kg	U

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	693534002	11/6/2024	Silver-108m	1.10E+01	9.02E+00	1.39E+01	pCi/kg	U
2126	698167002	12/2/2024	Silver-108m	-9.77E-01	3.70E+00	1.01E+01	pCi/kg	U
2126	650211001	1/4/2024	Silver-110m	-2.73E+00	8.61E+00	2.74E+01	pCi/kg	U
2126	654190001	2/7/2024	Silver-110m	1.74E+01	1.18E+01	4.19E+01	pCi/kg	U
2126	657419002	3/6/2024	Silver-110m	1.01E-01	3.85E+00	1.28E+01	pCi/kg	U
2126	660796001	4/3/2024	Silver-110m	-1.93E+00	6.70E+00	2.12E+01	pCi/kg	U
2126	666124001	5/7/2024	Silver-110m	1.06E+00	1.45E+01	4.89E+01	pCi/kg	U
2126	669757001	6/4/2024	Silver-110m	-2.72E+00	5.92E+00	1.90E+01	pCi/kg	U
2126	673677002	7/6/2024	Silver-110m	8.01E+00	1.06E+01	3.58E+01	pCi/kg	U
2126	679205002	8/7/2024	Silver-110m	3.08E+00	5.24E+00	1.82E+01	pCi/kg	U
2126	683695001	9/2/2024	Silver-110m	1.71E+01	1.42E+01	2.97E+01	pCi/kg	U
2126	687854002	9/30/2024	Silver-110m	-5.45E+00	5.49E+00	1.62E+01	pCi/kg	U
2126	693534002	11/6/2024	Silver-110m	-3.32E+00	7.91E+00	2.19E+01	pCi/kg	U
2126	698167002	12/2/2024	Silver-110m	-2.55E+00	5.18E+00	1.61E+01	pCi/kg	U
2126	650211001	1/4/2024	Tellurium-132	-6.82E+00	2.49E+01	7.85E+01	pCi/kg	U
2126	654190001	2/7/2024	Tellurium-132	-2.49E+01	4.27E+01	1.32E+02	pCi/kg	U
2126	657419002	3/6/2024	Tellurium-132	-7.26E+00	9.82E+00	3.18E+01	pCi/kg	U
2126	660796001	4/3/2024	Tellurium-132	-4.40E+01	5.36E+01	1.66E+02	pCi/kg	U
2126	666124001	5/7/2024	Tellurium-132	3.87E+01	4.10E+01	1.44E+02	pCi/kg	U
2126	669757001	6/4/2024	Tellurium-132	-1.63E+01	1.78E+01	5.80E+01	pCi/kg	U
2126	673677002	7/6/2024	Tellurium-132	5.22E+01	5.19E+01	1.71E+02	pCi/kg	U
2126	679205002	8/7/2024	Tellurium-132	-2.37E+01	3.76E+01	1.15E+02	pCi/kg	U
2126	683695001	9/2/2024	Tellurium-132	-2.86E+01	3.94E+01	1.31E+02	pCi/kg	U
2126	687854002	9/30/2024	Tellurium-132	2.75E+01	4.26E+01	8.23E+01	pCi/kg	U
2126	693534002	11/6/2024	Tellurium-132	6.58E+01	7.16E+01	2.33E+02	pCi/kg	U
2126	698167002	12/2/2024	Tellurium-132	1.47E+01	6.54E+01	2.07E+02	pCi/kg	U
2126	650211001	1/4/2024	Thallium-208	2.95E+01	1.23E+01	1.67E+01	pCi/kg	UI
2126	654190001	2/7/2024	Thallium-208	1.29E+02	2.17E+01	2.33E+01	pCi/kg	
2126	657419002	3/6/2024	Thallium-208	1.74E+01	6.01E+00	9.47E+00	pCi/kg	UI
2126	660796001	4/3/2024	Thallium-208	-4.64E+00	7.68E+00	1.74E+01	pCi/kg	U
2126	666124001	5/7/2024	Thallium-208	-3.05E+01	1.38E+01	3.91E+01	pCi/kg	U
2126	669757001	6/4/2024	Thallium-208	1.77E+01	8.05E+00	1.29E+01	pCi/kg	UI
2126	673677002	7/6/2024	Thallium-208	-3.45E+00	9.70E+00	3.04E+01	pCi/kg	U
2126	679205002	8/7/2024	Thallium-208	-3.35E+00	4.76E+00	1.18E+01	pCi/kg	U
2126	683695001	9/2/2024	Thallium-208	7.37E-01	9.80E+00	2.74E+01	pCi/kg	U
2126	687854002	9/30/2024	Thallium-208	1.14E+01	8.93E+00	9.66E+00	pCi/kg	UI
2126	693534002	11/6/2024	Thallium-208	-7.88E+00	7.59E+00	1.86E+01	pCi/kg	U
2126	698167002	12/2/2024	Thallium-208	7.85E-01	5.29E+00	1.36E+01	pCi/kg	U
2126	650211001	1/4/2024	Thorium-228	3.68E+01	2.69E+01	5.48E+01	pCi/kg	U
2126	654190001	2/7/2024	Thorium-228	2.15E+02	3.41E+01	5.28E+01	pCi/kg	
2126	657419002	3/6/2024	Thorium-228	1.23E+01	9.10E+00	1.47E+01	pCi/kg	U
2126	660796001	4/3/2024	Thorium-228	1.81E+01	1.73E+01	2.96E+01	pCi/kg	U
2126	666124001	5/7/2024	Thorium-228	-1.87E+01	2.12E+01	5.99E+01	pCi/kg	U
2126	669757001	6/4/2024	Thorium-228	2.61E+01	1.43E+01	2.78E+01	pCi/kg	U
2126	673677002	7/6/2024	Thorium-228	1.70E+01	2.30E+01	5.39E+01	pCi/kg	U
2126	679205002	8/7/2024	Thorium-228	3.49E-01	1.20E+01	2.11E+01	pCi/kg	U

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Company: Tennessee Valley Authority		Plant: Sequoyah	

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	683695001	9/2/2024	Thorium-228	-6.25E+00	1.48E+01	4.38E+01	pCi/kg	U
2126	687854002	9/30/2024	Thorium-228	2.49E+01	1.27E+01	2.64E+01	pCi/kg	U
2126	693534002	11/6/2024	Thorium-228	1.84E+00	1.59E+01	3.24E+01	pCi/kg	U
2126	698167002	12/2/2024	Thorium-228	-7.25E+00	8.72E+00	2.38E+01	pCi/kg	U
2126	650211001	1/4/2024	Thorium-230	5.96E+01	2.94E+01	7.71E+01	pCi/kg	U
2126	654190001	2/7/2024	Thorium-230	3.20E+02	4.66E+01	6.46E+01	pCi/kg	
2126	657419002	3/6/2024	Thorium-230	3.49E+01	1.55E+01	2.54E+01	pCi/kg	UI
2126	660796001	4/3/2024	Thorium-230	-1.71E+01	1.48E+01	3.58E+01	pCi/kg	U
2126	666124001	5/7/2024	Thorium-230	9.02E+00	2.16E+01	7.15E+01	pCi/kg	U
2126	669757001	6/4/2024	Thorium-230	1.17E+01	1.74E+01	3.18E+01	pCi/kg	U
2126	673677002	7/6/2024	Thorium-230	3.86E+01	3.24E+01	6.19E+01	pCi/kg	U
2126	679205002	8/7/2024	Thorium-230	-8.34E-01	9.14E+00	2.58E+01	pCi/kg	U
2126	683695001	9/2/2024	Thorium-230	3.99E+01	2.70E+01	5.52E+01	pCi/kg	U
2126	687854002	9/30/2024	Thorium-230	1.18E+01	1.48E+01	2.94E+01	pCi/kg	U
2126	693534002	11/6/2024	Thorium-230	-2.45E+01	1.53E+01	3.89E+01	pCi/kg	U
2126	698167002	12/2/2024	Thorium-230	-1.45E+01	1.15E+01	2.84E+01	pCi/kg	U
2126	650211001	1/4/2024	Thorium-232	1.65E+01	3.46E+01	1.15E+02	pCi/kg	U
2126	654190001	2/7/2024	Thorium-232	3.07E+02	7.31E+01	9.82E+01	pCi/kg	
2126	657419002	3/6/2024	Thorium-232	9.36E+00	1.41E+01	4.48E+01	pCi/kg	U
2126	660796001	4/3/2024	Thorium-232	-3.39E+01	2.90E+01	6.55E+01	pCi/kg	U
2126	666124001	5/7/2024	Thorium-232	-1.13E+02	6.07E+01	1.53E+02	pCi/kg	U
2126	669757001	6/4/2024	Thorium-232	-1.07E+01	2.18E+01	6.03E+01	pCi/kg	U
2126	673677002	7/6/2024	Thorium-232	8.01E+01	6.58E+01	1.38E+02	pCi/kg	U
2126	679205002	8/7/2024	Thorium-232	1.09E+01	2.61E+01	5.98E+01	pCi/kg	U
2126	683695001	9/2/2024	Thorium-232	8.39E+01	5.50E+01	1.06E+02	pCi/kg	U
2126	687854002	9/30/2024	Thorium-232	3.19E+01	2.77E+01	6.02E+01	pCi/kg	U
2126	693534002	11/6/2024	Thorium-232	8.01E+01	4.07E+01	8.04E+01	pCi/kg	U
2126	698167002	12/2/2024	Thorium-232	6.07E+01	2.82E+01	5.69E+01	pCi/kg	UI
2126	650211001	1/4/2024	Thorium-234	-8.06E+01	5.14E+02	1.73E+03	pCi/kg	U
2126	654190001	2/7/2024	Thorium-234	1.22E+03	1.12E+03	1.77E+03	pCi/kg	U
2126	657419002	3/6/2024	Thorium-234	-1.06E+02	1.41E+02	4.08E+02	pCi/kg	U
2126	660796001	4/3/2024	Thorium-234	3.60E+02	3.44E+02	5.37E+02	pCi/kg	U
2126	666124001	5/7/2024	Thorium-234	1.64E+03	1.08E+03	1.58E+03	pCi/kg	UI
2126	669757001	6/4/2024	Thorium-234	-3.35E+02	2.55E+02	7.35E+02	pCi/kg	U
2126	673677002	7/6/2024	Thorium-234	9.59E+01	6.05E+02	1.23E+03	pCi/kg	U
2126	679205002	8/7/2024	Thorium-234	-8.13E+01	1.69E+02	4.72E+02	pCi/kg	U
2126	683695001	9/2/2024	Thorium-234	8.44E+01	4.80E+02	8.99E+02	pCi/kg	U
2126	687854002	9/30/2024	Thorium-234	-4.40E+01	1.96E+02	6.16E+02	pCi/kg	U
2126	693534002	11/6/2024	Thorium-234	9.36E+01	3.41E+02	5.62E+02	pCi/kg	U
2126	698167002	12/2/2024	Thorium-234	6.96E+02	4.75E+02	6.21E+02	pCi/kg	UI
2126	650211001	1/4/2024	Uranium-234	5.96E+01	2.94E+01	7.71E+01	pCi/kg	U
2126	654190001	2/7/2024	Uranium-234	3.20E+02	4.66E+01	6.46E+01	pCi/kg	
2126	657419002	3/6/2024	Uranium-234	3.49E+01	1.55E+01	2.54E+01	pCi/kg	UI
2126	660796001	4/3/2024	Uranium-234	-1.71E+01	1.48E+01	3.58E+01	pCi/kg	U
2126	666124001	5/7/2024	Uranium-234	9.02E+00	2.16E+01	7.15E+01	pCi/kg	U
2126	669757001	6/4/2024	Uranium-234	1.17E+01	1.74E+01	3.18E+01	pCi/kg	U

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2126	673677002	7/6/2024	Uranium-234	3.86E+01	3.24E+01	6.19E+01	pCi/kg	U
2126	679205002	8/7/2024	Uranium-234	-8.34E-01	9.14E+00	2.58E+01	pCi/kg	U
2126	683695001	9/2/2024	Uranium-234	3.99E+01	2.70E+01	5.52E+01	pCi/kg	U
2126	687854002	9/30/2024	Uranium-234	1.18E+01	1.48E+01	2.94E+01	pCi/kg	U
2126	693534002	11/6/2024	Uranium-234	-2.45E+01	1.53E+01	3.89E+01	pCi/kg	U
2126	698167002	12/2/2024	Uranium-234	-1.45E+01	1.15E+01	2.84E+01	pCi/kg	U
2126	650211001	1/4/2024	Zinc-65	1.21E+01	1.81E+01	5.89E+01	pCi/kg	U
2126	654190001	2/7/2024	Zinc-65	-9.95E+00	2.00E+01	5.60E+01	pCi/kg	U
2126	657419002	3/6/2024	Zinc-65	5.94E+00	9.10E+00	2.75E+01	pCi/kg	U
2126	660796001	4/3/2024	Zinc-65	9.17E+00	1.04E+01	3.67E+01	pCi/kg	U
2126	666124001	5/7/2024	Zinc-65	1.44E+01	3.03E+01	1.02E+02	pCi/kg	U
2126	669757001	6/4/2024	Zinc-65	4.25E+00	1.04E+01	3.46E+01	pCi/kg	U
2126	673677002	7/6/2024	Zinc-65	-5.20E+01	1.77E+01	4.73E+01	pCi/kg	U
2126	679205002	8/7/2024	Zinc-65	-7.92E+00	9.38E+00	2.91E+01	pCi/kg	U
2126	683695001	9/2/2024	Zinc-65	-4.49E+00	1.70E+01	5.55E+01	pCi/kg	U
2126	687854002	9/30/2024	Zinc-65	7.33E+00	7.74E+00	2.78E+01	pCi/kg	U
2126	693534002	11/6/2024	Zinc-65	5.17E+00	1.11E+01	3.84E+01	pCi/kg	U
2126	698167002	12/2/2024	Zinc-65	2.27E+00	1.14E+01	3.01E+01	pCi/kg	U
2126	650211001	1/4/2024	Zirconium-95	1.63E+01	1.01E+01	3.69E+01	pCi/kg	U
2126	654190001	2/7/2024	Zirconium-95	-1.58E+01	1.60E+01	4.82E+01	pCi/kg	U
2126	657419002	3/6/2024	Zirconium-95	2.27E+00	4.38E+00	1.52E+01	pCi/kg	U
2126	660796001	4/3/2024	Zirconium-95	6.13E+00	8.85E+00	2.97E+01	pCi/kg	U
2126	666124001	5/7/2024	Zirconium-95	-1.01E+01	1.91E+01	5.90E+01	pCi/kg	U
2126	669757001	6/4/2024	Zirconium-95	1.63E+00	7.60E+00	2.57E+01	pCi/kg	U
2126	673677002	7/6/2024	Zirconium-95	1.96E+01	1.38E+01	4.88E+01	pCi/kg	U
2126	679205002	8/7/2024	Zirconium-95	4.72E+00	6.24E+00	2.22E+01	pCi/kg	U
2126	683695001	9/2/2024	Zirconium-95	-2.17E+01	1.03E+01	2.46E+01	pCi/kg	U
2126	687854002	9/30/2024	Zirconium-95	5.58E+00	6.89E+00	2.34E+01	pCi/kg	U
2126	693534002	11/6/2024	Zirconium-95	-9.97E+00	1.02E+01	3.16E+01	pCi/kg	U
2126	698167002	12/2/2024	Zirconium-95	-7.51E+00	9.28E+00	2.23E+01	pCi/kg	U
2204	650211002	1/4/2024	Actinium-228	-2.75E+01	4.36E+01	1.47E+02	pCi/kg	U
2204	654190003	2/7/2024	Actinium-228	1.49E+02	5.57E+01	1.44E+02	pCi/kg	UI
2204	657419001	3/7/2024	Actinium-228	8.45E+01	5.46E+01	9.10E+01	pCi/kg	U
2204	660796002	4/3/2024	Actinium-228	-4.99E+01	3.08E+01	7.95E+01	pCi/kg	U
2204	666124002	5/7/2024	Actinium-228	4.03E+01	6.99E+01	1.95E+02	pCi/kg	U
2204	669757002	6/4/2024	Actinium-228	3.45E+01	2.57E+01	8.76E+01	pCi/kg	U
2204	673677001	7/6/2024	Actinium-228	6.32E+01	4.14E+01	7.63E+01	pCi/kg	U
2204	679205001	8/7/2024	Actinium-228	5.00E+01	6.22E+01	7.34E+01	pCi/kg	U
2204	683695004	9/2/2024	Actinium-228	2.84E+01	6.63E+01	1.32E+02	pCi/kg	U
2204	687854001	9/30/2024	Actinium-228	8.45E+00	2.50E+01	7.11E+01	pCi/kg	U
2204	693534001	11/6/2024	Actinium-228	4.07E+01	6.22E+01	1.05E+02	pCi/kg	U
2204	698167001	12/2/2024	Actinium-228	-6.25E+01	4.23E+01	8.92E+01	pCi/kg	U
2204	650211002	1/4/2024	Americium-241	3.20E+01	5.09E+01	1.63E+02	pCi/kg	U
2204	654190003	2/7/2024	Americium-241	4.05E+00	1.13E+01	3.56E+01	pCi/kg	U
2204	657419001	3/7/2024	Americium-241	-1.85E+01	3.96E+01	1.34E+02	pCi/kg	U
2204	660796002	4/3/2024	Americium-241	1.21E+01	2.42E+01	8.27E+01	pCi/kg	U

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	666124002	5/7/2024	Americium-241	-6.01E+01	6.51E+01	1.85E+02	pCi/kg	U
2204	669757002	6/4/2024	Americium-241	-1.80E+00	1.43E+01	4.31E+01	pCi/kg	U
2204	673677001	7/6/2024	Americium-241	-4.44E+00	1.28E+01	3.91E+01	pCi/kg	U
2204	679205001	8/7/2024	Americium-241	-3.40E+01	5.22E+01	1.63E+02	pCi/kg	U
2204	683695004	9/2/2024	Americium-241	-3.43E+01	3.66E+01	1.12E+02	pCi/kg	U
2204	687854001	9/30/2024	Americium-241	-8.27E+00	3.47E+01	1.09E+02	pCi/kg	U
2204	693534001	11/6/2024	Americium-241	3.79E+00	7.27E+00	2.23E+01	pCi/kg	U
2204	698167001	12/2/2024	Americium-241	2.30E+00	6.48E+00	1.99E+01	pCi/kg	U
2204	650211002	1/4/2024	Antimony-124	-1.87E+01	2.43E+01	6.47E+01	pCi/kg	U
2204	654190003	2/7/2024	Antimony-124	-2.44E+01	1.94E+01	5.49E+01	pCi/kg	U
2204	657419001	3/7/2024	Antimony-124	-1.95E+01	1.91E+01	5.59E+01	pCi/kg	U
2204	660796002	4/3/2024	Antimony-124	-2.87E+00	9.35E+00	2.95E+01	pCi/kg	U
2204	666124002	5/7/2024	Antimony-124	1.60E+01	2.22E+01	8.00E+01	pCi/kg	U
2204	669757002	6/4/2024	Antimony-124	1.24E+01	1.29E+01	4.60E+01	pCi/kg	U
2204	673677001	7/6/2024	Antimony-124	-1.41E+01	1.11E+01	3.22E+01	pCi/kg	U
2204	679205001	8/7/2024	Antimony-124	-6.87E+00	1.38E+01	4.26E+01	pCi/kg	U
2204	683695004	9/2/2024	Antimony-124	-2.03E+01	1.91E+01	5.69E+01	pCi/kg	U
2204	687854001	9/30/2024	Antimony-124	1.05E+00	7.06E+00	2.37E+01	pCi/kg	U
2204	693534001	11/6/2024	Antimony-124	2.02E+01	1.57E+01	5.63E+01	pCi/kg	U
2204	698167001	12/2/2024	Antimony-124	1.04E+01	1.30E+01	4.61E+01	pCi/kg	U
2204	650211002	1/4/2024	Antimony-125	-2.40E+01	2.89E+01	9.01E+01	pCi/kg	U
2204	654190003	2/7/2024	Antimony-125	6.95E+01	1.72E+01	6.69E+01	pCi/kg	UI
2204	657419001	3/7/2024	Antimony-125	-1.12E+01	2.06E+01	6.70E+01	pCi/kg	U
2204	660796002	4/3/2024	Antimony-125	8.91E+00	1.17E+01	4.03E+01	pCi/kg	U
2204	666124002	5/7/2024	Antimony-125	-1.35E+01	2.45E+01	7.66E+01	pCi/kg	U
2204	669757002	6/4/2024	Antimony-125	-1.44E+01	1.34E+01	4.28E+01	pCi/kg	U
2204	673677001	7/6/2024	Antimony-125	2.51E+00	1.01E+01	3.38E+01	pCi/kg	U
2204	679205001	8/7/2024	Antimony-125	-3.00E+01	1.57E+01	4.96E+01	pCi/kg	U
2204	683695004	9/2/2024	Antimony-125	4.22E+00	1.79E+01	6.03E+01	pCi/kg	U
2204	687854001	9/30/2024	Antimony-125	4.73E-01	1.13E+01	3.84E+01	pCi/kg	U
2204	693534001	11/6/2024	Antimony-125	1.37E+01	1.41E+01	4.69E+01	pCi/kg	U
2204	698167001	12/2/2024	Antimony-125	1.74E+01	1.26E+01	3.96E+01	pCi/kg	U
2204	650211002	1/4/2024	Barium-140	-7.85E+01	5.38E+01	1.53E+02	pCi/kg	U
2204	654190003	2/7/2024	Barium-140	3.13E+01	3.65E+01	1.29E+02	pCi/kg	U
2204	657419001	3/7/2024	Barium-140	1.59E+01	3.25E+01	1.10E+02	pCi/kg	U
2204	660796002	4/3/2024	Barium-140	1.95E+01	2.94E+01	1.00E+02	pCi/kg	U
2204	666124002	5/7/2024	Barium-140	-4.98E+01	5.06E+01	1.50E+02	pCi/kg	U
2204	669757002	6/4/2024	Barium-140	2.27E+01	2.96E+01	1.01E+02	pCi/kg	U
2204	673677001	7/6/2024	Barium-140	6.95E+00	2.46E+01	8.13E+01	pCi/kg	U
2204	679205001	8/7/2024	Barium-140	-1.61E+01	5.57E+01	1.51E+02	pCi/kg	U
2204	683695004	9/2/2024	Barium-140	-4.79E+01	4.32E+01	1.33E+02	pCi/kg	U
2204	687854001	9/30/2024	Barium-140	2.27E+01	2.37E+01	8.38E+01	pCi/kg	U
2204	693534001	11/6/2024	Barium-140	3.84E+01	4.31E+01	1.41E+02	pCi/kg	U
2204	698167001	12/2/2024	Barium-140	8.00E+00	4.00E+01	1.28E+02	pCi/kg	U
2204	650211002	1/4/2024	Beryllium-7	8.12E+03	3.81E+02	3.12E+02	pCi/kg	
2204	654190003	2/7/2024	Beryllium-7	9.02E+03	2.74E+02	2.10E+02	pCi/kg	

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	657419001	3/7/2024	Beryllium-7	1.50E+04	3.48E+02	1.90E+02	pCi/kg	
2204	660796002	4/3/2024	Beryllium-7	1.92E+03	1.17E+02	1.41E+02	pCi/kg	
2204	666124002	5/7/2024	Beryllium-7	1.92E+03	2.12E+02	2.76E+02	pCi/kg	
2204	669757002	6/4/2024	Beryllium-7	2.92E+03	1.50E+02	1.47E+02	pCi/kg	
2204	673677001	7/6/2024	Beryllium-7	5.67E+02	7.01E+01	1.13E+02	pCi/kg	
2204	679205001	8/7/2024	Beryllium-7	1.72E+03	1.51E+02	1.99E+02	pCi/kg	
2204	683695004	9/2/2024	Beryllium-7	1.70E+03	1.36E+02	2.06E+02	pCi/kg	
2204	687854001	9/30/2024	Beryllium-7	2.09E+03	1.25E+02	1.19E+02	pCi/kg	
2204	693534001	11/6/2024	Beryllium-7	1.08E+03	1.15E+02	1.80E+02	pCi/kg	
2204	698167001	12/2/2024	Beryllium-7	1.48E+03	1.00E+02	1.57E+02	pCi/kg	
2204	650211002	1/4/2024	Bismuth-214	7.35E+01	4.54E+01	7.46E+01	pCi/kg	U
2204	654190003	2/7/2024	Bismuth-214	1.08E+02	3.31E+01	7.90E+01	pCi/kg	UI
2204	657419001	3/7/2024	Bismuth-214	2.50E+01	3.49E+01	7.04E+01	pCi/kg	U
2204	660796002	4/3/2024	Bismuth-214	-2.20E+01	1.81E+01	3.86E+01	pCi/kg	U
2204	666124002	5/7/2024	Bismuth-214	2.19E+01	3.56E+01	8.31E+01	pCi/kg	U
2204	669757002	6/4/2024	Bismuth-214	5.72E+00	2.54E+01	3.80E+01	pCi/kg	U
2204	673677001	7/6/2024	Bismuth-214	-1.17E+01	1.38E+01	3.71E+01	pCi/kg	U
2204	679205001	8/7/2024	Bismuth-214	3.20E+01	2.92E+01	4.58E+01	pCi/kg	U
2204	683695004	9/2/2024	Bismuth-214	-1.36E+01	2.36E+01	5.96E+01	pCi/kg	U
2204	687854001	9/30/2024	Bismuth-214	5.77E+01	1.35E+01	4.16E+01	pCi/kg	UI
2204	693534001	11/6/2024	Bismuth-214	4.66E+01	3.25E+01	3.99E+01	pCi/kg	UI
2204	698167001	12/2/2024	Bismuth-214	5.66E+01	2.23E+01	3.57E+01	pCi/kg	
2204	650211002	1/4/2024	Cerium-141	2.63E+01	2.57E+01	4.88E+01	pCi/kg	U
2204	654190003	2/7/2024	Cerium-141	-1.30E+01	9.49E+00	3.05E+01	pCi/kg	U
2204	657419001	3/7/2024	Cerium-141	-3.42E+01	1.22E+01	3.60E+01	pCi/kg	U
2204	660796002	4/3/2024	Cerium-141	-1.12E+00	7.97E+00	2.38E+01	pCi/kg	U
2204	666124002	5/7/2024	Cerium-141	1.93E+01	2.73E+01	4.95E+01	pCi/kg	U
2204	669757002	6/4/2024	Cerium-141	4.41E+00	8.95E+00	2.66E+01	pCi/kg	U
2204	673677001	7/6/2024	Cerium-141	-1.47E+00	8.49E+00	2.24E+01	pCi/kg	U
2204	679205001	8/7/2024	Cerium-141	-3.19E+01	1.06E+01	3.19E+01	pCi/kg	U
2204	683695004	9/2/2024	Cerium-141	1.15E+01	2.40E+01	3.39E+01	pCi/kg	U
2204	687854001	9/30/2024	Cerium-141	-9.27E+00	7.15E+00	2.23E+01	pCi/kg	U
2204	693534001	11/6/2024	Cerium-141	2.71E+00	8.21E+00	2.58E+01	pCi/kg	U
2204	698167001	12/2/2024	Cerium-141	-6.94E-01	7.67E+00	2.39E+01	pCi/kg	U
2204	650211002	1/4/2024	Cerium-144	7.47E+01	5.79E+01	1.99E+02	pCi/kg	U
2204	654190003	2/7/2024	Cerium-144	1.38E+01	3.25E+01	1.11E+02	pCi/kg	U
2204	657419001	3/7/2024	Cerium-144	-3.28E+00	4.21E+01	1.38E+02	pCi/kg	U
2204	660796002	4/3/2024	Cerium-144	-3.87E+01	2.60E+01	8.14E+01	pCi/kg	U
2204	666124002	5/7/2024	Cerium-144	7.60E+01	6.32E+01	2.07E+02	pCi/kg	U
2204	669757002	6/4/2024	Cerium-144	1.17E+01	2.95E+01	9.50E+01	pCi/kg	U
2204	673677001	7/6/2024	Cerium-144	1.79E+01	2.34E+01	7.73E+01	pCi/kg	U
2204	679205001	8/7/2024	Cerium-144	-6.91E+01	3.75E+01	1.18E+02	pCi/kg	U
2204	683695004	9/2/2024	Cerium-144	1.51E+01	3.86E+01	1.28E+02	pCi/kg	U
2204	687854001	9/30/2024	Cerium-144	2.23E+01	2.62E+01	8.88E+01	pCi/kg	U
2204	693534001	11/6/2024	Cerium-144	-4.78E+01	2.58E+01	7.72E+01	pCi/kg	U
2204	698167001	12/2/2024	Cerium-144	7.47E+00	2.22E+01	7.04E+01	pCi/kg	U

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	650211002	1/4/2024	Cesium-134	-4.16E+00	1.28E+01	3.92E+01	pCi/kg	U
2204	654190003	2/7/2024	Cesium-134	1.16E+01	9.49E+00	3.26E+01	pCi/kg	U
2204	657419001	3/7/2024	Cesium-134	-1.32E+01	9.28E+00	2.87E+01	pCi/kg	U
2204	660796002	4/3/2024	Cesium-134	-1.24E+01	5.62E+00	1.61E+01	pCi/kg	U
2204	666124002	5/7/2024	Cesium-134	-1.53E+00	1.30E+01	4.31E+01	pCi/kg	U
2204	669757002	6/4/2024	Cesium-134	2.68E+00	6.45E+00	2.13E+01	pCi/kg	U
2204	673677001	7/6/2024	Cesium-134	-1.03E+01	5.81E+00	1.56E+01	pCi/kg	U
2204	679205001	8/7/2024	Cesium-134	5.93E+00	7.07E+00	2.39E+01	pCi/kg	U
2204	683695004	9/2/2024	Cesium-134	5.55E+00	8.21E+00	2.88E+01	pCi/kg	U
2204	687854001	9/30/2024	Cesium-134	-1.87E+00	4.90E+00	1.54E+01	pCi/kg	U
2204	693534001	11/6/2024	Cesium-134	2.22E+00	7.23E+00	2.42E+01	pCi/kg	U
2204	698167001	12/2/2024	Cesium-134	-6.80E-01	5.81E+00	1.67E+01	pCi/kg	U
2204	650211002	1/4/2024	Cesium-137	7.03E+00	1.32E+01	4.45E+01	pCi/kg	U
2204	654190003	2/7/2024	Cesium-137	-1.15E+00	7.36E+00	2.43E+01	pCi/kg	U
2204	657419001	3/7/2024	Cesium-137	6.64E+00	8.75E+00	2.95E+01	pCi/kg	U
2204	660796002	4/3/2024	Cesium-137	8.39E+00	4.63E+00	1.64E+01	pCi/kg	U
2204	666124002	5/7/2024	Cesium-137	-3.69E+00	1.13E+01	3.28E+01	pCi/kg	U
2204	669757002	6/4/2024	Cesium-137	-7.19E+00	5.86E+00	1.79E+01	pCi/kg	U
2204	673677001	7/6/2024	Cesium-137	5.20E+00	4.85E+00	1.65E+01	pCi/kg	U
2204	679205001	8/7/2024	Cesium-137	-5.05E-01	1.10E+01	2.39E+01	pCi/kg	U
2204	683695004	9/2/2024	Cesium-137	-7.05E+00	7.93E+00	2.40E+01	pCi/kg	U
2204	687854001	9/30/2024	Cesium-137	1.05E+01	7.48E+00	1.51E+01	pCi/kg	U
2204	693534001	11/6/2024	Cesium-137	-3.47E-01	6.37E+00	2.13E+01	pCi/kg	U
2204	698167001	12/2/2024	Cesium-137	1.22E+01	5.65E+00	2.07E+01	pCi/kg	U
2204	650211002	1/4/2024	Chromium-51	5.31E+01	8.76E+01	3.08E+02	pCi/kg	U
2204	654190003	2/7/2024	Chromium-51	1.81E+02	1.16E+02	2.09E+02	pCi/kg	U
2204	657419001	3/7/2024	Chromium-51	-2.70E+00	6.91E+01	2.36E+02	pCi/kg	U
2204	660796002	4/3/2024	Chromium-51	1.08E+01	4.43E+01	1.53E+02	pCi/kg	U
2204	666124002	5/7/2024	Chromium-51	-1.62E+02	9.15E+01	2.77E+02	pCi/kg	U
2204	669757002	6/4/2024	Chromium-51	3.93E+01	4.79E+01	1.66E+02	pCi/kg	U
2204	673677001	7/6/2024	Chromium-51	1.22E+00	3.70E+01	1.25E+02	pCi/kg	U
2204	679205001	8/7/2024	Chromium-51	2.51E+01	6.31E+01	2.00E+02	pCi/kg	U
2204	683695004	9/2/2024	Chromium-51	2.60E+01	6.61E+01	2.28E+02	pCi/kg	U
2204	687854001	9/30/2024	Chromium-51	1.03E+02	4.29E+01	1.51E+02	pCi/kg	U
2204	693534001	11/6/2024	Chromium-51	4.85E+01	5.92E+01	1.99E+02	pCi/kg	U
2204	698167001	12/2/2024	Chromium-51	-3.42E+01	4.91E+01	1.58E+02	pCi/kg	U
2204	650211002	1/4/2024	Cobalt-57	-1.02E+01	7.65E+00	2.27E+01	pCi/kg	U
2204	654190003	2/7/2024	Cobalt-57	-3.05E+00	4.03E+00	1.33E+01	pCi/kg	U
2204	657419001	3/7/2024	Cobalt-57	-1.13E+00	5.38E+00	1.77E+01	pCi/kg	U
2204	660796002	4/3/2024	Cobalt-57	1.50E+00	3.49E+00	1.16E+01	pCi/kg	U
2204	666124002	5/7/2024	Cobalt-57	1.61E+01	7.47E+00	2.55E+01	pCi/kg	U
2204	669757002	6/4/2024	Cobalt-57	2.56E-01	3.90E+00	1.25E+01	pCi/kg	U
2204	673677001	7/6/2024	Cobalt-57	-7.37E+00	2.96E+00	8.66E+00	pCi/kg	U
2204	679205001	8/7/2024	Cobalt-57	3.06E+00	4.54E+00	1.53E+01	pCi/kg	U
2204	683695004	9/2/2024	Cobalt-57	5.61E+00	4.71E+00	1.61E+01	pCi/kg	U
2204	687854001	9/30/2024	Cobalt-57	1.62E+00	3.38E+00	1.14E+01	pCi/kg	U

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	693534001	11/6/2024	Cobalt-57	-8.70E-01	3.30E+00	1.03E+01	pCi/kg	U
2204	698167001	12/2/2024	Cobalt-57	-3.47E+00	2.77E+00	8.39E+00	pCi/kg	U
2204	650211002	1/4/2024	Cobalt-58	-1.78E+00	9.54E+00	2.95E+01	pCi/kg	U
2204	654190003	2/7/2024	Cobalt-58	9.48E+00	7.67E+00	2.73E+01	pCi/kg	U
2204	657419001	3/7/2024	Cobalt-58	6.04E+00	6.65E+00	2.41E+01	pCi/kg	U
2204	660796002	4/3/2024	Cobalt-58	-1.36E+00	4.97E+00	1.58E+01	pCi/kg	U
2204	666124002	5/7/2024	Cobalt-58	8.31E+00	1.04E+01	3.63E+01	pCi/kg	U
2204	669757002	6/4/2024	Cobalt-58	-7.87E+00	5.39E+00	1.57E+01	pCi/kg	U
2204	673677001	7/6/2024	Cobalt-58	-7.81E+00	4.37E+00	1.24E+01	pCi/kg	U
2204	679205001	8/7/2024	Cobalt-58	1.06E+01	7.04E+00	2.45E+01	pCi/kg	U
2204	683695004	9/2/2024	Cobalt-58	5.37E+00	8.11E+00	2.84E+01	pCi/kg	U
2204	687854001	9/30/2024	Cobalt-58	4.95E+00	4.57E+00	1.60E+01	pCi/kg	U
2204	693534001	11/6/2024	Cobalt-58	-3.60E+00	6.84E+00	2.21E+01	pCi/kg	U
2204	698167001	12/2/2024	Cobalt-58	6.77E-01	6.07E+00	2.01E+01	pCi/kg	U
2204	650211002	1/4/2024	Cobalt-60	-7.12E+00	1.37E+01	4.20E+01	pCi/kg	U
2204	654190003	2/7/2024	Cobalt-60	2.82E+00	9.53E+00	2.89E+01	pCi/kg	U
2204	657419001	3/7/2024	Cobalt-60	1.79E+00	9.60E+00	3.16E+01	pCi/kg	U
2204	660796002	4/3/2024	Cobalt-60	-8.42E+00	4.76E+00	1.39E+01	pCi/kg	U
2204	666124002	5/7/2024	Cobalt-60	2.74E+01	2.05E+01	4.34E+01	pCi/kg	U
2204	669757002	6/4/2024	Cobalt-60	5.43E-01	6.03E+00	2.03E+01	pCi/kg	U
2204	673677001	7/6/2024	Cobalt-60	3.58E+01	8.26E+00	2.09E+01	pCi/kg	UI
2204	679205001	8/7/2024	Cobalt-60	-3.08E+00	7.30E+00	2.36E+01	pCi/kg	U
2204	683695004	9/2/2024	Cobalt-60	8.42E+00	7.62E+00	2.71E+01	pCi/kg	U
2204	687854001	9/30/2024	Cobalt-60	-5.10E+00	5.20E+00	1.43E+01	pCi/kg	U
2204	693534001	11/6/2024	Cobalt-60	2.32E+00	6.82E+00	2.32E+01	pCi/kg	U
2204	698167001	12/2/2024	Cobalt-60	-8.62E+00	5.31E+00	1.53E+01	pCi/kg	U
2204	650211002	1/4/2024	Iodine-131	-2.69E+00	1.68E+01	5.59E+01	pCi/kg	U
2204	654190003	2/7/2024	Iodine-131	5.51E-01	1.33E+01	4.29E+01	pCi/kg	U
2204	657419001	3/7/2024	Iodine-131	1.91E+01	1.33E+01	4.74E+01	pCi/kg	U
2204	660796002	4/3/2024	Iodine-131	-1.03E+01	1.15E+01	3.81E+01	pCi/kg	U
2204	666124002	5/7/2024	Iodine-131	6.98E+01	2.32E+01	6.62E+01	pCi/kg	UI
2204	669757002	6/4/2024	Iodine-131	-2.55E+00	1.21E+01	3.62E+01	pCi/kg	U
2204	673677001	7/6/2024	Iodine-131	-4.49E+00	9.23E+00	3.02E+01	pCi/kg	U
2204	679205001	8/7/2024	Iodine-131	-1.25E+00	1.64E+01	5.60E+01	pCi/kg	U
2204	683695004	9/2/2024	Iodine-131	2.11E+01	1.57E+01	5.58E+01	pCi/kg	U
2204	687854001	9/30/2024	Iodine-131	1.41E+00	1.08E+01	3.71E+01	pCi/kg	U
2204	693534001	11/6/2024	Iodine-131	2.88E+01	1.64E+01	5.62E+01	pCi/kg	U
2204	698167001	12/2/2024	Iodine-131	-3.37E+00	1.58E+01	5.13E+01	pCi/kg	U
2204	650211002	1/4/2024	Iron-59	-9.58E+00	2.42E+01	7.73E+01	pCi/kg	U
2204	654190003	2/7/2024	Iron-59	-2.23E+00	1.46E+01	4.64E+01	pCi/kg	U
2204	657419001	3/7/2024	Iron-59	7.31E+00	1.73E+01	5.71E+01	pCi/kg	U
2204	660796002	4/3/2024	Iron-59	-8.65E+00	1.26E+01	3.81E+01	pCi/kg	U
2204	666124002	5/7/2024	Iron-59	1.09E+01	2.29E+01	7.73E+01	pCi/kg	U
2204	669757002	6/4/2024	Iron-59	2.59E+01	1.26E+01	4.48E+01	pCi/kg	U
2204	673677001	7/6/2024	Iron-59	-5.75E+00	9.68E+00	3.04E+01	pCi/kg	U
2204	679205001	8/7/2024	Iron-59	-3.98E+00	1.38E+01	4.58E+01	pCi/kg	U

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Company: Tennessee Valley Authority		Plant: Sequoyah	

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	683695004	9/2/2024	Iron-59	-2.90E+01	1.92E+01	5.70E+01	pCi/kg	U
2204	687854001	9/30/2024	Iron-59	-1.73E+01	9.07E+00	2.53E+01	pCi/kg	U
2204	693534001	11/6/2024	Iron-59	-2.14E+01	1.70E+01	5.14E+01	pCi/kg	U
2204	698167001	12/2/2024	Iron-59	-1.44E+01	1.52E+01	4.59E+01	pCi/kg	U
2204	650211002	1/4/2024	Lanthanum-140	-2.77E+00	1.66E+01	5.19E+01	pCi/kg	U
2204	654190003	2/7/2024	Lanthanum-140	-9.35E+00	1.17E+01	3.51E+01	pCi/kg	U
2204	657419001	3/7/2024	Lanthanum-140	-7.31E+00	1.02E+01	3.12E+01	pCi/kg	U
2204	660796002	4/3/2024	Lanthanum-140	1.11E+01	9.29E+00	3.33E+01	pCi/kg	U
2204	666124002	5/7/2024	Lanthanum-140	2.48E+00	1.93E+01	6.50E+01	pCi/kg	U
2204	669757002	6/4/2024	Lanthanum-140	1.60E+00	8.93E+00	2.99E+01	pCi/kg	U
2204	673677001	7/6/2024	Lanthanum-140	-1.58E+00	7.38E+00	2.43E+01	pCi/kg	U
2204	679205001	8/7/2024	Lanthanum-140	-4.51E+00	1.55E+01	4.95E+01	pCi/kg	U
2204	683695004	9/2/2024	Lanthanum-140	-1.60E+01	1.45E+01	4.35E+01	pCi/kg	U
2204	687854001	9/30/2024	Lanthanum-140	8.23E+00	1.09E+01	3.82E+01	pCi/kg	U
2204	693534001	11/6/2024	Lanthanum-140	-5.25E+00	1.68E+01	4.63E+01	pCi/kg	U
2204	698167001	12/2/2024	Lanthanum-140	-4.51E+00	1.42E+01	4.55E+01	pCi/kg	U
2204	650211002	1/4/2024	Lead-210	1.99E+02	1.49E+03	4.95E+03	pCi/kg	U
2204	654190003	2/7/2024	Lead-210	2.27E+03	2.59E+02	3.66E+02	pCi/kg	
2204	657419001	3/7/2024	Lead-210	5.82E+03	2.27E+03	4.31E+03	pCi/kg	UI
2204	660796002	4/3/2024	Lead-210	3.94E+02	2.04E+03	2.68E+03	pCi/kg	U
2204	666124002	5/7/2024	Lead-210	3.82E+03	2.14E+03	7.48E+03	pCi/kg	U
2204	669757002	6/4/2024	Lead-210	-1.67E+01	3.03E+02	7.10E+02	pCi/kg	U
2204	673677001	7/6/2024	Lead-210	6.71E+02	4.22E+02	6.43E+02	pCi/kg	UI
2204	679205001	8/7/2024	Lead-210	1.72E+03	2.62E+03	9.17E+03	pCi/kg	U
2204	683695004	9/2/2024	Lead-210	3.05E+03	2.27E+03	3.47E+03	pCi/kg	U
2204	687854001	9/30/2024	Lead-210	3.55E+03	2.83E+03	5.06E+03	pCi/kg	U
2204	693534001	11/6/2024	Lead-210	1.74E+02	1.65E+02	2.08E+02	pCi/kg	U
2204	698167001	12/2/2024	Lead-210	3.12E+02	1.57E+02	1.67E+02	pCi/kg	UI
2204	650211002	1/4/2024	Lead-212	4.65E+01	4.98E+01	5.90E+01	pCi/kg	U
2204	654190003	2/7/2024	Lead-212	6.50E+01	1.98E+01	3.34E+01	pCi/kg	
2204	657419001	3/7/2024	Lead-212	4.06E+01	2.50E+01	4.86E+01	pCi/kg	U
2204	660796002	4/3/2024	Lead-212	2.22E+01	1.47E+01	3.16E+01	pCi/kg	U
2204	666124002	5/7/2024	Lead-212	7.81E+01	4.03E+01	7.37E+01	pCi/kg	UI
2204	669757002	6/4/2024	Lead-212	3.58E+01	1.87E+01	2.86E+01	pCi/kg	UI
2204	673677001	7/6/2024	Lead-212	-1.70E+01	9.02E+00	2.72E+01	pCi/kg	U
2204	679205001	8/7/2024	Lead-212	5.99E+00	1.57E+01	4.24E+01	pCi/kg	U
2204	683695004	9/2/2024	Lead-212	3.92E-01	2.15E+01	4.69E+01	pCi/kg	U
2204	687854001	9/30/2024	Lead-212	1.59E+01	1.30E+01	2.90E+01	pCi/kg	U
2204	693534001	11/6/2024	Lead-212	2.61E+01	1.76E+01	3.56E+01	pCi/kg	U
2204	698167001	12/2/2024	Lead-212	3.35E+01	1.51E+01	2.48E+01	pCi/kg	UI
2204	650211002	1/4/2024	Lead-214	1.39E+02	4.24E+01	1.10E+02	pCi/kg	UI
2204	654190003	2/7/2024	Lead-214	8.62E+01	2.78E+01	6.55E+01	pCi/kg	UI
2204	657419001	3/7/2024	Lead-214	8.49E+01	3.30E+01	7.60E+01	pCi/kg	UI
2204	660796002	4/3/2024	Lead-214	1.20E+01	1.91E+01	3.76E+01	pCi/kg	U
2204	666124002	5/7/2024	Lead-214	9.01E+01	5.15E+01	9.48E+01	pCi/kg	U
2204	669757002	6/4/2024	Lead-214	1.72E+00	2.53E+01	3.80E+01	pCi/kg	U

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	673677001	7/6/2024	Lead-214	3.27E+00	1.86E+01	3.66E+01	pCi/kg	U
2204	679205001	8/7/2024	Lead-214	5.21E+01	2.76E+01	5.54E+01	pCi/kg	U
2204	683695004	9/2/2024	Lead-214	2.49E-01	2.71E+01	5.83E+01	pCi/kg	U
2204	687854001	9/30/2024	Lead-214	-1.53E+01	1.22E+01	3.26E+01	pCi/kg	U
2204	693534001	11/6/2024	Lead-214	-7.45E+00	2.13E+01	4.55E+01	pCi/kg	U
2204	698167001	12/2/2024	Lead-214	3.40E+01	1.77E+01	3.25E+01	pCi/kg	UI
2204	650211002	1/4/2024	Manganese-54	-2.04E+00	1.18E+01	3.67E+01	pCi/kg	U
2204	654190003	2/7/2024	Manganese-54	-2.03E+00	7.90E+00	2.55E+01	pCi/kg	U
2204	657419001	3/7/2024	Manganese-54	1.49E+01	7.18E+00	2.59E+01	pCi/kg	U
2204	660796002	4/3/2024	Manganese-54	5.47E+00	4.97E+00	1.62E+01	pCi/kg	U
2204	666124002	5/7/2024	Manganese-54	-1.15E+00	1.12E+01	3.70E+01	pCi/kg	U
2204	669757002	6/4/2024	Manganese-54	-9.41E-01	6.08E+00	1.94E+01	pCi/kg	U
2204	673677001	7/6/2024	Manganese-54	3.46E-01	5.65E+00	1.69E+01	pCi/kg	U
2204	679205001	8/7/2024	Manganese-54	-6.73E+00	6.25E+00	1.89E+01	pCi/kg	U
2204	683695004	9/2/2024	Manganese-54	4.32E+00	7.57E+00	2.63E+01	pCi/kg	U
2204	687854001	9/30/2024	Manganese-54	4.09E+00	3.82E+00	1.34E+01	pCi/kg	U
2204	693534001	11/6/2024	Manganese-54	3.48E+00	6.20E+00	2.09E+01	pCi/kg	U
2204	698167001	12/2/2024	Manganese-54	5.25E+00	5.97E+00	2.05E+01	pCi/kg	U
2204	650211002	1/4/2024	Molybdenum-99	-4.28E+02	3.80E+02	1.05E+03	pCi/kg	U
2204	654190003	2/7/2024	Molybdenum-99	-4.85E+01	3.88E+02	1.28E+03	pCi/kg	U
2204	657419001	3/7/2024	Molybdenum-99	3.36E+02	2.51E+02	8.83E+02	pCi/kg	U
2204	660796002	4/3/2024	Molybdenum-99	-4.04E+02	8.72E+02	2.77E+03	pCi/kg	U
2204	666124002	5/7/2024	Molybdenum-99	4.34E+02	5.89E+02	2.07E+03	pCi/kg	U
2204	669757002	6/4/2024	Molybdenum-99	3.02E+02	3.65E+02	1.12E+03	pCi/kg	U
2204	673677001	7/6/2024	Molybdenum-99	2.13E+01	3.94E+02	1.35E+03	pCi/kg	U
2204	679205001	8/7/2024	Molybdenum-99	-3.78E+02	1.13E+03	3.61E+03	pCi/kg	U
2204	683695004	9/2/2024	Molybdenum-99	9.80E+02	8.69E+02	2.94E+03	pCi/kg	U
2204	687854001	9/30/2024	Molybdenum-99	-2.90E+02	5.24E+02	1.63E+03	pCi/kg	U
2204	693534001	11/6/2024	Molybdenum-99	2.79E+02	1.41E+03	4.71E+03	pCi/kg	U
2204	698167001	12/2/2024	Molybdenum-99	-2.19E+03	1.59E+03	4.91E+03	pCi/kg	U
2204	650211002	1/4/2024	Niobium-95	-1.02E+01	1.10E+01	3.13E+01	pCi/kg	U
2204	654190003	2/7/2024	Niobium-95	2.29E+01	1.10E+01	2.18E+01	pCi/kg	UI
2204	657419001	3/7/2024	Niobium-95	6.80E+00	8.53E+00	2.86E+01	pCi/kg	U
2204	660796002	4/3/2024	Niobium-95	5.56E+00	7.42E+00	1.85E+01	pCi/kg	U
2204	666124002	5/7/2024	Niobium-95	-3.80E+00	1.19E+01	3.91E+01	pCi/kg	U
2204	669757002	6/4/2024	Niobium-95	3.31E+01	1.36E+01	1.80E+01	pCi/kg	UI
2204	673677001	7/6/2024	Niobium-95	4.54E+00	4.40E+00	1.58E+01	pCi/kg	U
2204	679205001	8/7/2024	Niobium-95	1.22E+01	6.77E+00	2.39E+01	pCi/kg	U
2204	683695004	9/2/2024	Niobium-95	5.16E+00	8.62E+00	3.01E+01	pCi/kg	U
2204	687854001	9/30/2024	Niobium-95	9.34E-01	4.37E+00	1.44E+01	pCi/kg	U
2204	693534001	11/6/2024	Niobium-95	5.15E+00	7.14E+00	2.43E+01	pCi/kg	U
2204	698167001	12/2/2024	Niobium-95	-2.45E+00	6.34E+00	2.06E+01	pCi/kg	U
2204	650211002	1/4/2024	Potassium-40	3.63E+03	4.07E+02	2.83E+02	pCi/kg	
2204	654190003	2/7/2024	Potassium-40	1.04E+03	1.82E+02	1.53E+02	pCi/kg	
2204	657419001	3/7/2024	Potassium-40	3.04E+03	3.20E+02	3.25E+02	pCi/kg	
2204	660796002	4/3/2024	Potassium-40	7.32E+03	2.64E+02	1.37E+02	pCi/kg	

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Company: Tennessee Valley Authority		Plant: Sequoyah	

Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	666124002	5/7/2024	Potassium-40	5.32E+03	4.00E+02	3.76E+02	pCi/kg	
2204	669757002	6/4/2024	Potassium-40	4.54E+03	2.46E+02	1.31E+02	pCi/kg	
2204	673677001	7/6/2024	Potassium-40	2.88E+03	1.76E+02	1.36E+02	pCi/kg	
2204	679205001	8/7/2024	Potassium-40	5.33E+03	3.14E+02	2.08E+02	pCi/kg	
2204	683695004	9/2/2024	Potassium-40	4.24E+03	3.53E+02	3.20E+02	pCi/kg	
2204	687854001	9/30/2024	Potassium-40	2.45E+03	1.84E+02	1.84E+02	pCi/kg	
2204	693534001	11/6/2024	Potassium-40	3.83E+03	2.38E+02	1.76E+02	pCi/kg	
2204	698167001	12/2/2024	Potassium-40	2.87E+03	2.34E+02	1.83E+02	pCi/kg	
2204	650211002	1/4/2024	Radium-226	1.39E+02	4.24E+01	1.10E+02	pCi/kg	UI
2204	654190003	2/7/2024	Radium-226	8.62E+01	2.78E+01	6.55E+01	pCi/kg	UI
2204	657419001	3/7/2024	Radium-226	8.49E+01	3.30E+01	7.60E+01	pCi/kg	UI
2204	660796002	4/3/2024	Radium-226	1.20E+01	1.91E+01	3.76E+01	pCi/kg	U
2204	666124002	5/7/2024	Radium-226	9.01E+01	5.15E+01	9.48E+01	pCi/kg	U
2204	669757002	6/4/2024	Radium-226	1.72E+00	2.53E+01	3.80E+01	pCi/kg	U
2204	673677001	7/6/2024	Radium-226	3.27E+00	1.86E+01	3.66E+01	pCi/kg	U
2204	679205001	8/7/2024	Radium-226	5.21E+01	2.76E+01	5.54E+01	pCi/kg	U
2204	683695004	9/2/2024	Radium-226	2.49E-01	2.71E+01	5.83E+01	pCi/kg	U
2204	687854001	9/30/2024	Radium-226	-1.53E+01	1.22E+01	3.26E+01	pCi/kg	U
2204	693534001	11/6/2024	Radium-226	-7.45E+00	2.13E+01	4.55E+01	pCi/kg	U
2204	698167001	12/2/2024	Radium-226	3.40E+01	1.77E+01	3.25E+01	pCi/kg	UI
2204	650211002	1/4/2024	Radium-228	-2.75E+01	4.36E+01	1.47E+02	pCi/kg	U
2204	654190003	2/7/2024	Radium-228	1.49E+02	5.57E+01	1.44E+02	pCi/kg	UI
2204	657419001	3/7/2024	Radium-228	8.45E+01	5.46E+01	9.10E+01	pCi/kg	U
2204	660796002	4/3/2024	Radium-228	-4.99E+01	3.08E+01	7.95E+01	pCi/kg	U
2204	666124002	5/7/2024	Radium-228	4.03E+01	6.99E+01	1.95E+02	pCi/kg	U
2204	669757002	6/4/2024	Radium-228	3.45E+01	2.57E+01	8.76E+01	pCi/kg	U
2204	673677001	7/6/2024	Radium-228	6.32E+01	4.14E+01	7.63E+01	pCi/kg	U
2204	679205001	8/7/2024	Radium-228	5.00E+01	6.22E+01	7.34E+01	pCi/kg	U
2204	683695004	9/2/2024	Radium-228	2.84E+01	6.63E+01	1.32E+02	pCi/kg	U
2204	687854001	9/30/2024	Radium-228	8.45E+00	2.50E+01	7.11E+01	pCi/kg	U
2204	693534001	11/6/2024	Radium-228	4.07E+01	6.22E+01	1.05E+02	pCi/kg	U
2204	698167001	12/2/2024	Radium-228	-6.25E+01	4.23E+01	8.92E+01	pCi/kg	U
2204	650211002	1/4/2024	Ruthenium-103	2.77E+01	1.77E+01	3.68E+01	pCi/kg	U
2204	654190003	2/7/2024	Ruthenium-103	-4.22E+00	6.29E+00	2.05E+01	pCi/kg	U
2204	657419001	3/7/2024	Ruthenium-103	-1.18E+01	7.27E+00	2.15E+01	pCi/kg	U
2204	660796002	4/3/2024	Ruthenium-103	2.14E+00	5.02E+00	1.70E+01	pCi/kg	U
2204	666124002	5/7/2024	Ruthenium-103	1.05E+01	1.19E+01	3.98E+01	pCi/kg	U
2204	669757002	6/4/2024	Ruthenium-103	1.40E+01	5.74E+00	2.08E+01	pCi/kg	U
2204	673677001	7/6/2024	Ruthenium-103	4.17E+00	4.88E+00	1.66E+01	pCi/kg	U
2204	679205001	8/7/2024	Ruthenium-103	-1.63E+01	6.40E+00	1.91E+01	pCi/kg	U
2204	683695004	9/2/2024	Ruthenium-103	-7.76E+00	8.42E+00	2.65E+01	pCi/kg	U
2204	687854001	9/30/2024	Ruthenium-103	3.37E+00	4.39E+00	1.54E+01	pCi/kg	U
2204	693534001	11/6/2024	Ruthenium-103	3.66E+00	6.61E+00	2.15E+01	pCi/kg	U
2204	698167001	12/2/2024	Ruthenium-103	-2.04E+00	5.82E+00	1.82E+01	pCi/kg	U
2204	650211002	1/4/2024	Ruthenium-106	-1.28E+01	9.75E+01	3.12E+02	pCi/kg	U
2204	654190003	2/7/2024	Ruthenium-106	6.02E+00	6.08E+01	2.05E+02	pCi/kg	U

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	657419001	3/7/2024	Ruthenium-106	-2.31E+00	6.61E+01	2.13E+02	pCi/kg	U
2204	660796002	4/3/2024	Ruthenium-106	5.07E+01	4.44E+01	1.52E+02	pCi/kg	U
2204	666124002	5/7/2024	Ruthenium-106	-1.25E+02	1.16E+02	3.20E+02	pCi/kg	U
2204	669757002	6/4/2024	Ruthenium-106	-8.13E+01	5.52E+01	1.69E+02	pCi/kg	U
2204	673677001	7/6/2024	Ruthenium-106	-4.53E+01	4.26E+01	1.28E+02	pCi/kg	U
2204	679205001	8/7/2024	Ruthenium-106	7.15E+01	5.72E+01	1.98E+02	pCi/kg	U
2204	683695004	9/2/2024	Ruthenium-106	-7.92E+01	7.02E+01	2.12E+02	pCi/kg	U
2204	687854001	9/30/2024	Ruthenium-106	-3.50E+00	3.39E+01	1.11E+02	pCi/kg	U
2204	693534001	11/6/2024	Ruthenium-106	-8.52E+01	5.49E+01	1.75E+02	pCi/kg	U
2204	698167001	12/2/2024	Ruthenium-106	-2.05E+01	4.67E+01	1.54E+02	pCi/kg	U
2204	650211002	1/4/2024	Selenium-75	1.45E+01	1.55E+01	5.53E+01	pCi/kg	U
2204	654190003	2/7/2024	Selenium-75	-1.63E+00	8.46E+00	2.74E+01	pCi/kg	U
2204	657419001	3/7/2024	Selenium-75	-2.44E+01	1.10E+01	3.08E+01	pCi/kg	U
2204	660796002	4/3/2024	Selenium-75	-2.88E+00	6.25E+00	1.93E+01	pCi/kg	U
2204	666124002	5/7/2024	Selenium-75	-1.56E+00	1.30E+01	4.32E+01	pCi/kg	U
2204	669757002	6/4/2024	Selenium-75	3.43E+00	6.34E+00	2.20E+01	pCi/kg	U
2204	673677001	7/6/2024	Selenium-75	4.91E+00	5.16E+00	1.82E+01	pCi/kg	U
2204	679205001	8/7/2024	Selenium-75	-5.27E+00	8.58E+00	2.66E+01	pCi/kg	U
2204	683695004	9/2/2024	Selenium-75	-1.11E+01	8.94E+00	2.62E+01	pCi/kg	U
2204	687854001	9/30/2024	Selenium-75	-4.15E+00	5.90E+00	1.80E+01	pCi/kg	U
2204	693534001	11/6/2024	Selenium-75	-8.73E+00	7.04E+00	2.17E+01	pCi/kg	U
2204	698167001	12/2/2024	Selenium-75	1.26E+01	5.81E+00	2.06E+01	pCi/kg	U
2204	650211002	1/4/2024	Silver-108m	8.45E+00	9.39E+00	3.32E+01	pCi/kg	U
2204	654190003	2/7/2024	Silver-108m	-7.48E+00	7.52E+00	1.82E+01	pCi/kg	U
2204	657419001	3/7/2024	Silver-108m	3.51E+00	6.61E+00	2.27E+01	pCi/kg	U
2204	660796002	4/3/2024	Silver-108m	-2.54E+00	5.70E+00	1.36E+01	pCi/kg	U
2204	666124002	5/7/2024	Silver-108m	1.24E+01	8.70E+00	3.04E+01	pCi/kg	U
2204	669757002	6/4/2024	Silver-108m	1.19E+01	7.29E+00	1.61E+01	pCi/kg	U
2204	673677001	7/6/2024	Silver-108m	1.67E+00	3.81E+00	1.28E+01	pCi/kg	U
2204	679205001	8/7/2024	Silver-108m	-1.06E+01	5.23E+00	1.64E+01	pCi/kg	U
2204	683695004	9/2/2024	Silver-108m	-2.26E-02	5.98E+00	1.99E+01	pCi/kg	U
2204	687854001	9/30/2024	Silver-108m	1.10E+00	3.65E+00	1.25E+01	pCi/kg	U
2204	693534001	11/6/2024	Silver-108m	3.12E+00	4.90E+00	1.61E+01	pCi/kg	U
2204	698167001	12/2/2024	Silver-108m	-2.60E+00	4.18E+00	1.31E+01	pCi/kg	U
2204	650211002	1/4/2024	Silver-110m	-3.29E+00	1.45E+01	4.80E+01	pCi/kg	U
2204	654190003	2/7/2024	Silver-110m	-3.02E+00	1.16E+01	3.74E+01	pCi/kg	U
2204	657419001	3/7/2024	Silver-110m	-4.12E+00	9.03E+00	2.92E+01	pCi/kg	U
2204	660796002	4/3/2024	Silver-110m	-5.38E+00	6.92E+00	2.12E+01	pCi/kg	U
2204	666124002	5/7/2024	Silver-110m	3.91E+00	1.48E+01	4.98E+01	pCi/kg	U
2204	669757002	6/4/2024	Silver-110m	-1.38E+01	7.33E+00	2.04E+01	pCi/kg	U
2204	673677001	7/6/2024	Silver-110m	-1.05E+01	6.57E+00	1.99E+01	pCi/kg	U
2204	679205001	8/7/2024	Silver-110m	-1.52E+01	1.02E+01	2.99E+01	pCi/kg	U
2204	683695004	9/2/2024	Silver-110m	1.88E+01	1.05E+01	3.88E+01	pCi/kg	U
2204	687854001	9/30/2024	Silver-110m	2.39E+00	5.73E+00	1.72E+01	pCi/kg	U
2204	693534001	11/6/2024	Silver-110m	-1.41E+00	9.19E+00	2.99E+01	pCi/kg	U
2204	698167001	12/2/2024	Silver-110m	-3.12E+01	1.04E+01	2.44E+01	pCi/kg	U

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	650211002	1/4/2024	Tellurium-132	3.33E+01	3.55E+01	1.17E+02	pCi/kg	U
2204	654190003	2/7/2024	Tellurium-132	4.27E+00	2.99E+01	9.89E+01	pCi/kg	U
2204	657419001	3/7/2024	Tellurium-132	-1.02E+01	2.50E+01	7.79E+01	pCi/kg	U
2204	660796002	4/3/2024	Tellurium-132	4.74E+00	5.35E+01	1.70E+02	pCi/kg	U
2204	666124002	5/7/2024	Tellurium-132	-3.97E+01	5.32E+01	1.44E+02	pCi/kg	U
2204	669757002	6/4/2024	Tellurium-132	1.02E+01	2.65E+01	8.36E+01	pCi/kg	U
2204	673677001	7/6/2024	Tellurium-132	4.30E+01	3.26E+01	1.07E+02	pCi/kg	U
2204	679205001	8/7/2024	Tellurium-132	5.53E+01	8.45E+01	2.75E+02	pCi/kg	U
2204	683695004	9/2/2024	Tellurium-132	7.47E+00	5.69E+01	1.80E+02	pCi/kg	U
2204	687854001	9/30/2024	Tellurium-132	-1.69E+01	4.79E+01	1.39E+02	pCi/kg	U
2204	693534001	11/6/2024	Tellurium-132	-1.17E+02	7.25E+01	2.36E+02	pCi/kg	U
2204	698167001	12/2/2024	Tellurium-132	-1.15E+02	7.78E+01	2.51E+02	pCi/kg	U
2204	650211002	1/4/2024	Thallium-208	-4.94E+00	1.57E+01	5.31E+01	pCi/kg	U
2204	654190003	2/7/2024	Thallium-208	3.38E+01	1.46E+01	2.46E+01	pCi/kg	UI
2204	657419001	3/7/2024	Thallium-208	1.53E+01	1.67E+01	3.20E+01	pCi/kg	U
2204	660796002	4/3/2024	Thallium-208	4.22E+00	7.34E+00	2.09E+01	pCi/kg	U
2204	666124002	5/7/2024	Thallium-208	8.30E+00	1.46E+01	4.06E+01	pCi/kg	U
2204	669757002	6/4/2024	Thallium-208	3.81E+00	1.43E+01	1.70E+01	pCi/kg	U
2204	673677001	7/6/2024	Thallium-208	1.05E-01	7.96E+00	1.53E+01	pCi/kg	U
2204	679205001	8/7/2024	Thallium-208	1.33E+01	1.17E+01	1.83E+01	pCi/kg	U
2204	683695004	9/2/2024	Thallium-208	-2.47E+01	1.25E+01	3.25E+01	pCi/kg	U
2204	687854001	9/30/2024	Thallium-208	-6.31E+00	6.36E+00	1.58E+01	pCi/kg	U
2204	693534001	11/6/2024	Thallium-208	9.73E+00	1.45E+01	2.02E+01	pCi/kg	U
2204	698167001	12/2/2024	Thallium-208	-1.96E+01	9.00E+00	1.87E+01	pCi/kg	U
2204	650211002	1/4/2024	Thorium-228	4.65E+01	4.98E+01	5.90E+01	pCi/kg	U
2204	654190003	2/7/2024	Thorium-228	6.50E+01	1.98E+01	3.34E+01	pCi/kg	U
2204	657419001	3/7/2024	Thorium-228	4.06E+01	2.50E+01	4.86E+01	pCi/kg	U
2204	660796002	4/3/2024	Thorium-228	2.22E+01	1.47E+01	3.16E+01	pCi/kg	U
2204	666124002	5/7/2024	Thorium-228	7.81E+01	4.03E+01	7.37E+01	pCi/kg	UI
2204	669757002	6/4/2024	Thorium-228	3.58E+01	1.87E+01	2.86E+01	pCi/kg	UI
2204	673677001	7/6/2024	Thorium-228	-1.70E+01	9.02E+00	2.72E+01	pCi/kg	U
2204	679205001	8/7/2024	Thorium-228	5.99E+00	1.57E+01	4.24E+01	pCi/kg	U
2204	683695004	9/2/2024	Thorium-228	3.92E-01	2.15E+01	4.69E+01	pCi/kg	U
2204	687854001	9/30/2024	Thorium-228	1.59E+01	1.30E+01	2.90E+01	pCi/kg	U
2204	693534001	11/6/2024	Thorium-228	2.61E+01	1.76E+01	3.56E+01	pCi/kg	U
2204	698167001	12/2/2024	Thorium-228	3.35E+01	1.51E+01	2.48E+01	pCi/kg	UI
2204	650211002	1/4/2024	Thorium-230	1.39E+02	4.24E+01	1.10E+02	pCi/kg	UI
2204	654190003	2/7/2024	Thorium-230	8.62E+01	2.78E+01	6.55E+01	pCi/kg	UI
2204	657419001	3/7/2024	Thorium-230	8.49E+01	3.30E+01	7.60E+01	pCi/kg	UI
2204	660796002	4/3/2024	Thorium-230	1.20E+01	1.91E+01	3.76E+01	pCi/kg	U
2204	666124002	5/7/2024	Thorium-230	9.01E+01	5.15E+01	9.48E+01	pCi/kg	U
2204	669757002	6/4/2024	Thorium-230	1.72E+00	2.53E+01	3.80E+01	pCi/kg	U
2204	673677001	7/6/2024	Thorium-230	3.27E+00	1.86E+01	3.66E+01	pCi/kg	U
2204	679205001	8/7/2024	Thorium-230	5.21E+01	2.76E+01	5.54E+01	pCi/kg	U
2204	683695004	9/2/2024	Thorium-230	2.49E-01	2.71E+01	5.83E+01	pCi/kg	U
2204	687854001	9/30/2024	Thorium-230	-1.53E+01	1.22E+01	3.26E+01	pCi/kg	U

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	693534001	11/6/2024	Thorium-230	-7.45E+00	2.13E+01	4.55E+01	pCi/kg	U
2204	698167001	12/2/2024	Thorium-230	3.40E+01	1.77E+01	3.25E+01	pCi/kg	UI
2204	650211002	1/4/2024	Thorium-232	-2.75E+01	4.36E+01	1.47E+02	pCi/kg	U
2204	654190003	2/7/2024	Thorium-232	1.49E+02	5.57E+01	1.44E+02	pCi/kg	UI
2204	657419001	3/7/2024	Thorium-232	8.45E+01	5.46E+01	9.10E+01	pCi/kg	U
2204	660796002	4/3/2024	Thorium-232	-4.99E+01	3.08E+01	7.95E+01	pCi/kg	U
2204	666124002	5/7/2024	Thorium-232	4.03E+01	6.99E+01	1.95E+02	pCi/kg	U
2204	669757002	6/4/2024	Thorium-232	3.45E+01	2.57E+01	8.76E+01	pCi/kg	U
2204	673677001	7/6/2024	Thorium-232	6.32E+01	4.14E+01	7.63E+01	pCi/kg	U
2204	679205001	8/7/2024	Thorium-232	5.00E+01	6.22E+01	7.34E+01	pCi/kg	U
2204	683695004	9/2/2024	Thorium-232	2.84E+01	6.63E+01	1.32E+02	pCi/kg	U
2204	687854001	9/30/2024	Thorium-232	8.45E+00	2.50E+01	7.11E+01	pCi/kg	U
2204	693534001	11/6/2024	Thorium-232	4.07E+01	6.22E+01	1.05E+02	pCi/kg	U
2204	698167001	12/2/2024	Thorium-232	-6.25E+01	4.23E+01	8.92E+01	pCi/kg	U
2204	650211002	1/4/2024	Thorium-234	7.73E+02	7.83E+02	1.37E+03	pCi/kg	U
2204	654190003	2/7/2024	Thorium-234	-1.44E+02	1.83E+02	5.92E+02	pCi/kg	U
2204	657419001	3/7/2024	Thorium-234	2.53E+02	4.33E+02	1.28E+03	pCi/kg	U
2204	660796002	4/3/2024	Thorium-234	3.15E+02	4.00E+02	6.69E+02	pCi/kg	U
2204	666124002	5/7/2024	Thorium-234	2.26E+03	1.14E+03	2.16E+03	pCi/kg	UI
2204	669757002	6/4/2024	Thorium-234	8.79E+02	2.59E+02	3.97E+02	pCi/kg	UI
2204	673677001	7/6/2024	Thorium-234	1.05E+02	2.40E+02	3.65E+02	pCi/kg	U
2204	679205001	8/7/2024	Thorium-234	1.88E+02	9.56E+02	1.50E+03	pCi/kg	U
2204	683695004	9/2/2024	Thorium-234	3.26E+02	5.66E+02	9.61E+02	pCi/kg	U
2204	687854001	9/30/2024	Thorium-234	6.36E+02	6.64E+02	1.02E+03	pCi/kg	U
2204	693534001	11/6/2024	Thorium-234	1.16E+02	1.84E+02	2.14E+02	pCi/kg	U
2204	698167001	12/2/2024	Thorium-234	1.39E+02	1.39E+02	1.91E+02	pCi/kg	U
2204	650211002	1/4/2024	Uranium-234	1.39E+02	4.24E+01	1.10E+02	pCi/kg	UI
2204	654190003	2/7/2024	Uranium-234	8.62E+01	2.78E+01	6.55E+01	pCi/kg	UI
2204	657419001	3/7/2024	Uranium-234	8.49E+01	3.30E+01	7.60E+01	pCi/kg	UI
2204	660796002	4/3/2024	Uranium-234	1.20E+01	1.91E+01	3.76E+01	pCi/kg	U
2204	666124002	5/7/2024	Uranium-234	9.01E+01	5.15E+01	9.48E+01	pCi/kg	U
2204	669757002	6/4/2024	Uranium-234	1.72E+00	2.53E+01	3.80E+01	pCi/kg	U
2204	673677001	7/6/2024	Uranium-234	3.27E+00	1.86E+01	3.66E+01	pCi/kg	U
2204	679205001	8/7/2024	Uranium-234	5.21E+01	2.76E+01	5.54E+01	pCi/kg	U
2204	683695004	9/2/2024	Uranium-234	2.49E-01	2.71E+01	5.83E+01	pCi/kg	U
2204	687854001	9/30/2024	Uranium-234	-1.53E+01	1.22E+01	3.26E+01	pCi/kg	U
2204	693534001	11/6/2024	Uranium-234	-7.45E+00	2.13E+01	4.55E+01	pCi/kg	U
2204	698167001	12/2/2024	Uranium-234	3.40E+01	1.77E+01	3.25E+01	pCi/kg	UI
2204	650211002	1/4/2024	Zinc-65	4.82E+01	2.71E+01	1.06E+02	pCi/kg	U
2204	654190003	2/7/2024	Zinc-65	-8.36E+00	1.69E+01	5.21E+01	pCi/kg	U
2204	657419001	3/7/2024	Zinc-65	-1.45E+01	1.99E+01	6.19E+01	pCi/kg	U
2204	660796002	4/3/2024	Zinc-65	1.08E+01	1.13E+01	3.98E+01	pCi/kg	U
2204	666124002	5/7/2024	Zinc-65	-3.99E+01	2.84E+01	8.28E+01	pCi/kg	U
2204	669757002	6/4/2024	Zinc-65	1.05E+01	1.23E+01	4.33E+01	pCi/kg	U
2204	673677001	7/6/2024	Zinc-65	-5.72E-01	1.15E+01	3.29E+01	pCi/kg	U
2204	679205001	8/7/2024	Zinc-65	1.10E+01	2.18E+01	5.04E+01	pCi/kg	U

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Table 19: Complete REMP Results – Wet Vegetation (pCi/kg)

Location	Sample ID	Collect Date	Nuclide/Analysis	Activity	Uncertainty, 1-σ	MDA	Units	Qualifier
2204	683695004	9/2/2024	Zinc-65	2.85E-02	1.82E+01	5.99E+01	pCi/kg	U
2204	687854001	9/30/2024	Zinc-65	1.58E+01	1.19E+01	2.27E+01	pCi/kg	U
2204	693534001	11/6/2024	Zinc-65	-3.49E+00	1.81E+01	5.76E+01	pCi/kg	U
2204	698167001	12/2/2024	Zinc-65	-1.30E+01	1.54E+01	3.96E+01	pCi/kg	U
2204	650211002	1/4/2024	Zirconium-95	-1.16E+01	2.34E+01	7.09E+01	pCi/kg	U
2204	654190003	2/7/2024	Zirconium-95	9.00E+00	1.36E+01	4.70E+01	pCi/kg	U
2204	657419001	3/7/2024	Zirconium-95	1.19E+00	1.47E+01	4.70E+01	pCi/kg	U
2204	660796002	4/3/2024	Zirconium-95	7.00E-01	8.94E+00	2.91E+01	pCi/kg	U
2204	666124002	5/7/2024	Zirconium-95	-1.85E+01	1.94E+01	6.08E+01	pCi/kg	U
2204	669757002	6/4/2024	Zirconium-95	8.80E+00	1.07E+01	3.60E+01	pCi/kg	U
2204	673677001	7/6/2024	Zirconium-95	-2.06E+00	7.52E+00	2.51E+01	pCi/kg	U
2204	679205001	8/7/2024	Zirconium-95	-2.32E+00	1.17E+01	3.76E+01	pCi/kg	U
2204	683695004	9/2/2024	Zirconium-95	1.23E+01	1.47E+01	5.20E+01	pCi/kg	U
2204	687854001	9/30/2024	Zirconium-95	1.40E+00	7.69E+00	2.53E+01	pCi/kg	U
2204	693534001	11/6/2024	Zirconium-95	1.61E+01	1.35E+01	4.65E+01	pCi/kg	U
2204	698167001	12/2/2024	Zirconium-95	8.28E-01	1.10E+01	3.65E+01	pCi/kg	U

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Attachment 3, Cross Check Intercomparison Program

A quality assurance program is employed by the offsite vendor laboratory, GEL Laboratories to ensure that the environmental monitoring data are reliable. This program includes the use of written, approved procedures in performing the work, provisions for staff training and certification, internal self-assessments of program performance, audits by various external organizations, and a laboratory quality control program.

The quality control program employed by the radioanalytical laboratory is designed to ensure that the sampling and analysis process is working as intended. The program includes equipment checks and the analysis of quality control samples, along with routine field samples. Instrument quality control checks include background count rate and counts reproducibility. In addition to these two general checks, other quality control checks are performed on the variety of detectors used in the laboratory. The exact nature of these checks depends on the type of device and the method it uses to detect radiation or store the information obtained.

Quality control samples of a variety of types are used by the laboratory to verify the performance of different portions of the analytical process. These quality control samples include blanks, field duplicates, process duplicates, matrix spikes, laboratory control samples, and independent cross-checks.

Blanks are samples which contain no measurable radioactivity of the type being measured. Such samples are analyzed to determine whether there is any contamination or cross-contamination of equipment, reagents, processed samples, or interferences from isotopes other than the ones being measured.

Duplicate field samples are generated at random by the sample computer program which schedules the collection of the routine samples. For example, if the routine program calls for four milk samples every week, on a random basis each farm might provide an additional sample several times a year. These duplicate samples are analyzed along with other routine samples. They provide information about the variability of radioactive content in the various sample media. If enough sample is available for a particular analysis, the laboratory staff can split the sample taking two individual aliquots, known as process duplicates. Duplicate samples provide information about the variability of the entire sampling and analytical process.

Matrix spikes are field samples that have been spiked with known low levels of specific target isotopes. Recovery of the known amount allow the analyst to determine if any interferences are exhibited from the field sample's matrix.

Laboratory control samples are another type of quality control sample. A known amount of radioactivity is added to a sample medium and processed along with the other QC and field samples in the analytical batch. Laboratory control samples provide the assurance that all aspects of the process have been successfully completed within the criteria established by Standard Operating Procedure.

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Another category of quality control samples is cross-check samples. The laboratory procures single-blind performance evaluation samples from Eckert & Ziegler Analytics to verify the analysis of sample matrices processed at the laboratory. Samples are received on a quarterly basis. The laboratory's Third-Party Cross-Check Program provides environmental matrices encountered in a typical nuclear utility REMP. Once performance evaluation samples have been prepared in accordance with the instructions from the performance evaluator provider, samples are managed and analyzed in the same manner as environmental samples. These samples have a known amount of radioactivity added and are presented to the lab staff labeled as cross-check samples. The laboratory does not know the amount of radioactivity added to the sample. Such samples test the best performance of the laboratory by determining if the laboratory can find the "right answer." These samples provide information about the accuracy of the measurement process. Further information is available about the variability of the process if multiple analyses are requested on the same sample. Like matrix spikes or laboratory control samples, these samples can also be spiked with low levels of activity to test detection limits. The analysis results for GEL's internal cross-check samples met program performance goals for 2024.

The quality control data are routinely collected, examined and reported to laboratory supervisory personnel. They are checked for trends, problem areas, or other indications that a portion of the analytical process needs correction or improvement. The result is a measurement process that provides reliable and verifiable data and is sensitive enough to measure the presence of radioactivity far below the levels which could be harmful to humans.

Per the GEL 2024 Annual Environmental Quality Assurance (QA) Report [11] forty-one (41) radioisotopes associated with six (6) matrix types (air filter, cartridge, water, milk, soil and vegetation) were analyzed under GEL's Performance Evaluation program in participation with ERA, Department of Energy Mixed Analyte Performance Evaluate Program (MAPEP), and Eckert & Ziegler Analytics. Matrix types were representative of client analyses performed during 2024. Of the four hundred sixty three (463) total results, 96.1% (445 of 463) were found to be acceptable within the PT providers three sigma or other statistical criteria. For the Eckert & Ziegler Analytics Environmental Cross Check Program, GEL was provided sixty-nine (69) 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. Of the 69 analyses reported, 97% (67/69) fell within the acceptance criteria..

GEL's radioanalytical lab performance in 2024 meets the criteria described in Reg. Guide 4.15 and ANSI/HPS N13.37-2014.

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Attachment 4, Environmental Direct Radiation Dosimetry Sample Results

Monitoring Location	Station	Quarterly Baseline, B _Q (mrem)	Normalized Quarterly Monitoring Data, M _Q (mrem)				Quarterly Facility Dose, F _Q (mrem)				Annual Baseline, B _A (mrem)	Annual Monitoring Data, M _A (mrem)	Annual Facility Dose, F _A (mrem)
			1	2	3	4	1	2	3	4			
14	NW-3	11.3	14.2	11.0	9.9	10.7	ND	ND	ND	ND	45.4	45.8	ND
8	W-3	12.0	12.3	13.4	11.0	10.2	ND	ND	ND	ND	48.2	46.9	ND
78	WSW-3	16.0	16.9	14.9	15.5	13.7	ND	ND	ND	ND	63.9	61.0	ND
79	WSW-4	12.7	11.0	13.4	10.0	12.7	ND	ND	ND	ND	50.6	47.1	ND
7	SW-2	13.3	12.8	13.4	12.1	10.1	ND	ND	ND	ND	53.3	48.4	ND
77	WSW-2	10.4	13.8	13.4	9.0	11.2	ND	ND	ND	ND	41.6	47.5	ND
10	WSW-2A	13.9	14.8	16.7	11.0	16.2	ND	ND	ND	ND	55.5	58.7	ND
76	WSW-1	16.5	16.5	20.9	13.0	16.2	ND	ND	ND	ND	65.8	66.6	ND
75	SW-1	17.1	18.2	18.2	15.7	14.5	ND	ND	ND	ND	68.3	66.6	ND
81	W-1	20.2	16.9	N/A	18.3	18.6	ND	N/A	ND	ND	81.0	74.1	ND
83	WNW-1	15.7	15.1	16.9	12.9	17.3	ND	ND	ND	ND	63.0	62.2	ND
73	SSW-1	15.6	15.1	15.4	N/A	15.5	ND	ND	N/A	ND	62.2	61.6	ND
57	ENE-1	13.4	13.8	17.4	13.5	16.0	ND	ND	ND	ND	53.6	60.8	ND
85	NW-1	17.0	16.5	16.4	14.3	18.8	ND	ND	ND	ND	68.0	66.1	ND
87	NNW-1	15.3	15.1	16.1	13.2	13.8	ND	ND	ND	ND	61.2	58.2	ND
49	N-1	15.0	15.1	18.6	10.8	8.9	ND	ND	ND	ND	60.0	53.4	ND
88	NNW-2	12.4	11.4	13.6	9.9	10.7	ND	ND	ND	ND	49.5	45.5	ND
82	W-2	10.8	10.9	11.9	10.0	10.7	ND	ND	ND	ND	43.4	43.5	ND
84	WNW-2	11.3	10.4	11.4	10.0	N/A	ND	ND	ND	N/A	45.3	43.2	ND
86	NW-2	12.9	11.5	14.4	10.9	11.8	ND	ND	ND	ND	51.6	48.6	ND
89	NNW-3	12.9	13.7	11.5	12.2	10.8	ND	ND	ND	ND	51.8	48.3	ND
51	N-3	13.0	11.8	14.6	12.9	11.5	ND	ND	ND	ND	52.2	50.7	ND
52	N-4	14.5	14.0	N/A	10.8	12.0	ND	N/A	ND	ND	58.1	51.3	ND
13	ESE-3	13.9	14.6	16.6	9.4	13.8	ND	ND	ND	ND	55.7	54.5	ND

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Monitoring Location	Station	Quarterly Baseline, B _Q (mrem)	Normalized Quarterly Monitoring Data, M _Q (mrem)				Quarterly Facility Dose, F _Q (mrem)				Annual Baseline, B _A (mrem)	Annual Monitoring Data, M _A (mrem)	Annual Facility Dose, F _A (mrem)
			1	2	3	4	1	2	3	4			
70	SSE-2	15.9	15.4	14.9	13.0	15.0	ND	ND	ND	ND	63.7	58.3	ND
68	SE-4	16.1	15.9	14.9	15.0	15.0	ND	ND	ND	ND	64.4	60.8	ND
63	ESE-2	15.7	15.9	16.9	12.4	14.8	ND	ND	ND	ND	62.8	60.0	ND
60	E-2	14.0	15.6	15.2	11.4	15.3	ND	ND	ND	ND	56.1	57.5	ND
58	ENE-2	13.7	16.2	15.4	14.8	9.3	ND	ND	ND	ND	54.9	55.8	ND
56	NE-2	10.8	10.1	14.9	10.9	9.3	ND	ND	ND	ND	43.2	45.2	ND
53	NNE-2	13.2	12.9	8.4	12.4	14.2	ND	ND	ND	ND	52.6	47.9	ND
50	N-2	14.3	13.8	12.0	15.2	13.5	ND	ND	ND	ND	57.3	54.5	ND
5	NNE-1	17.7	16.6	18.4	14.8	19.3	ND	ND	ND	ND	71.0	69.2	ND
55	NE-1	14.8	14.9	N/A	13.4	16.3	ND	N/A	ND	ND	59.3	59.5	ND
4	NE-1A	15.3	14.9	15.4	15.2	13.5	ND	ND	ND	ND	61.0	59.0	ND
59	E-1	12.1	14.0	13.4	11.4	10.2	ND	ND	ND	ND	48.4	49.0	ND
62	ESE-1	13.6	11.1	15.9	12.4	13.7	ND	ND	ND	ND	54.6	53.1	ND
66	SE-1	10.3	11.1	8.9	10.4	10.2	ND	ND	ND	ND	41.3	40.7	ND
67	SE-2	13.9	12.1	15.9	11.4	13.7	ND	ND	ND	ND	55.6	53.1	ND
69	SSE-1	12.5	13.5	14.4	12.4	11.2	ND	ND	ND	ND	50.0	51.5	ND
71	S-1	16.8	16.8	19.4	13.4	16.2	ND	ND	ND	ND	67.2	65.7	ND
90	SSW-1B	11.8	11.6	11.9	10.5	11.6	ND	ND	ND	ND	47.3	45.6	ND
3	SSW-1C	13.0	15.2	13.9	12.5	13.5	ND	ND	ND	ND	51.9	55.2	ND
74	SSW-2	18.6	18.7	18.9	16.8	N/A	ND	ND	ND	N/A	74.4	73.0	ND
72	S-2	12.0	12.1	13.9	8.9	9.2	ND	ND	ND	ND	47.8	44.1	ND
9	SSW-3	15.2	14.5	17.4	13.0	12.6	ND	ND	ND	ND	60.8	57.4	ND
11	SW-3	17.2	19.0	18.9	17.0	17.2	ND	ND	ND	ND	68.6	72.1	ND
12	NNE-4	15.3	15.9	14.1	16.4	14.0	ND	ND	ND	ND	61.2	60.3	ND

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MDD_Q = Quarterly Minimum Differential Dose = 6.2 mrem

MDD_A = Annual Minimum Differential Dose = 14.2 mrem

ND = Not Detected, where $M_Q \leq (B_Q + MDD_Q)$ or $M_A \leq (B_A + MDD_A)$